



ELSEVIER

Research Policy 28 (1999) 921–951

research
policy

Author Index Volumes 1–28

Abernathy, W.J., <i>see</i> Rosenbloom, R.S.,	11 (1982) 209
Abernathy, W.J. and K.B. Clark, Innovation: Mapping the winds of creative destruction	14 (1985) 3
Abernathy, W.J. and K.B. Clark, Innovation: Mapping the winds of creative destruction	22 (1993) 102
Abraham, J., <i>see</i> Irvine, J.,	16 (1987) 213
Achilladelis, B., A. Schwarzkopf and M. Cines, A study of innovation in the pesticide industry: Analysis of the innovation record of an industrial sector	16 (1987) 175
Achilladelis, B., A. Schwarzkopf and M. Cines, The dynamics of technological innovation: The case of the chemical industry	19 (1990) 1
Achilladelis, B., The dynamics of technological innovation: The sector of antibacterial medicines	22 (1993) 279
Afuah, A.N. and N. Bahram, The hypercube of innovation	24 (1995) 51
Aggeri, F., Environmental policies and innovation: a knowledge-based perspective on cooperative approaches	28 (1999) 699
Ahrens, H.J., R. Coenen, L. Czayka, I. Karst, H. Weyand, G. Beker, B. Wingert, H.G. Kruse, H. Krauch, F. Niwa, G. Bechmann, I. v. Berg, G. Brosi and H. Folkers, Priorities in research policy	2 (1973/74) 94
Aked, N.H. and P.J. Gummett, Science and technology in the European communities: the history of the COST projects	5 (1976) 270
Al-Timimi, W., Innovations led expansion: the shipbuilding case	4 (1975) 160
Alam, G. and J. Langrish, Government and its utilization by industry	13 (1984) 55
Albert, M.B., D. Avery, F. Narin and P. McAllister, Direct validation of citation counts as indicators of industrially important patents	20 (1991) 251
Alcorta, L. and W. Peres, Innovation systems and technological specialization in Latin America and the Caribbean	26 (1998) 857
Aldrich, H.E. and T. Sasaki, R & D consortia in the United States and Japan	24 (1995) 301
Allen, T.J., D.B. Hyman and D.L. Pickney, Transferring technology to the small manufacturing firm: A study of technology transfer in three countries	12 (1983) 199
Allen, T.J., Government influence on process of innovation in Europe and Japan	22 (1993) 101
Allen, Th.J., J.M. Utterback, M.A. Sirbu, N.A. Ashford and J.H. Hollomon, Government influence on the process of innovation in Europe and Japan	7 (1978) 124
Amable, B. and S. Palombarini, Technical change and incorporated R & D in the service sector	27 (1998) 655
Amann, R. and J. Slama, The organic chemicals industry of the USSR: a case study in the measurement of comparative technological sophistication by means of kilogram-prices	5 (1976) 302
Amara, N., <i>see</i> Landry, R.,	27 (1998) 901
Amendola, G., The diffusion of synthetic materials in the automobile industry: Towards a major breakthrough?	19 (1990) 485
Amendola, M. and S. Bruno, The behavior of the innovative firm: Relations to the environment	19 (1990) 419
Amendola, M. and J.L. Gaffard, Markets and organizations as coherent systems of innovations	23 (1994) 627
Amesse, F., C. Desranleau, H. Etemad, Y. Fortier and L. Seguin-Dulude, The individual inventor and the role of entrepreneurship: A survey of the Canadian evidence	20 (1991) 13
Amesse, F., <i>see</i> De Bresson, C.,	20 (1991) 363
Amir, S., Environmental research in Israel: On the need for a novel organizational change	16 (1987) 17
Anand, H.R. and J. Haberer, Scientific and political orientation of American scientists	7 (1978) 26
Anderson, F., <i>see</i> Dalpé, R.,	24 (1995) 563
Antonelli, C., The international diffusion of new information technologies	15 (1986) 139
Antonelli, C., The role of technological expectations in a mixed model of international diffusion process innovations: The case of open-end spinning rotors	18 (1989) 273
Aram, J.D., L.H. Lynn and N.M. Reddy, Institutional relationships and technology commercialization: limitations of market-based policy	21 (1992) 409

Aram, J.D., <i>see</i> Lynn, L.H.,	25 (1997) 91
Arcangeli, F., G. Dosi and M. Moggi, Patterns of diffusion of electronics technologies: An international comparison with special reference to the Italian case	20 (1991) 515
Arcangeli, F., <i>see</i> Belussi, F.,	27 (1998) 415
Archibugi, D., Innovation policy making in a federalist system: Lessons from the states for U.S. federal innovation policy making	20 (1991) 199
Archibugi, D. and M. Pianta, Specialization and size of technological activities in industrial countries: The analysis of patent data	21 (1992) 79
Archibugi, D., <i>see</i> Evangelista, R.,	26 (1998) 521
Archibugi, D. and S. Iammarino, The policy implications of the globalisation of innovation	28 (1999) 317
Arnon, N., <i>see</i> Teubal, M.N.,	5 (1976) 354
Arnow, K.S., University research grants management: Accountability viewed as an exchange- the U.S. case	10 (1981) 46
Arora, A. and A. Gambardella, The changing technology of technological change: general and abstract knowledge and the division of innovative labour	23 (1994) 523
Arora, A., <i>see</i> Kelley, M.R.,	25 (1997) 265
Arora, A., Patents, licensing, and market structure in the chemical industry	26 (1998) 391
Arundel, A. and I. Kabla, What percentage of innovations we patented? Empirical estimates for European firms	27 (1998) 127
Arvanitis, R., <i>see</i> Pirela, A.,	22 (1993) 431
Ashford, N.A., <i>see</i> Allen, Th.J.,	7 (1978) 124
Atkinson, R.D., Innovation policy making in a federalist system: Lessons from the states for US. Federal innovation policy making	20 (1991) 559
Auriol, L., <i>see</i> Radosevic, S.,	28 (1999) 351
Autio, E., New, technology-based firms in innovation networks symplectic and generative impacts	26 (1998) 263
Autio, E. and H. Ily-Renko, New, technology-based firms in small open economies – An analysis based on the Finnish experience	26 (1998) 973
Averch, H.A., Exploring the cost-efficiency of basic research funding in chemistry	18 (1989) 165
Averch, H.A., The political economy of R & D taxonomies	20 (1991) 179
Avery, D., <i>see</i> Albert, M.B.,	20 (1991) 251
Avriel, D., Scientists as consultants to industry in a developing country: An analysis of their roles and economic effectiveness.	10 (1981) 244
Baark, E., The value of technology: A survey of the Chinese theoretical debate and its policy implications	17 (1988) 269
Baba, Y., S. Takai and Y. Mizuta, The Japanese software industry: the 'hub' structure approach	24 (1995) 473
Baba, Y. and K. Nobeoka, Towards knowledge-based product development: the 3-D CAD model of knowledge creation	26 (1998) 643
Bahram, N., <i>see</i> Afuah, A.N.,	24 (1995) 51
Bailetti, A.J. and J.R. Callahan, Managing consistency between product development and public standards evolution	24 (1995) 913
Baker, N.R. and D.J. Sweeney, Toward a conceptual framework of the process of organized technological innovation within the firm	7 (1978) 150
Balàzas, K., Lessons from an economy with limited market functions: R & D in Hungary in the 1980s	22 (1993) 537
Baldwin, J.R. and J. Johnson, Business strategies in more- and less- innovative firms in Canada	25 (1997) 785
Balfort, C.L., <i>see</i> Vos, C.M.,	18 (1989) 51
Ball, D.F., <i>see</i> Hutcheson, P.,	25 (1997) 25
Bally, Y.W., <i>see</i> Spangenberg, J.F.A.,	19 (1990) 239
Balmer, B. and M. Sharp, The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s	22 (1993) 463
Baptista, R. and P. Swann, Do firms in clusters innovate more?	27 (1998) 525
Bar-El, R., <i>see</i> Felsenstein, D.,	18 (1989) 239
Barras, R., Towards a theory of innovation in services	15 (1986) 161
Barras, R., Interactive innovation in financial and business services: The vanguard of the service revolution	19 (1990) 215
Barras, R., Interactive innovation in financial and business services: The vanguard of the service revolution	22 (1993) 101
Barré, R., <i>see</i> Zitt, M.,	28 (1999) 545
Barry, A., Technical and political change in basic research: The case of the European X-Ray Observatory Satellite	20 (1991) 261
Baruch, J.J., Service cost: an approach to technological policy	4 (1975) 46
Basberg, B.L., Technological change in the Norwegian whaling industry: A case study in the use of patent-statistics as a technology indicator	11 (1982) 163
Basberg, B.L., Foreign patenting in the U.S. as a technology indicator	12 (1983) 227
Basberg, B.L., Patents and the measurement of technological change: A survey of the literature	16 (1987) 131

Battisti, G., <i>see</i> Stoneman, R.,	27 (1998) 187
Bayliss, C.R., Comment on 'Automation in textile machinery'	7 (1978) 99
Bean, A.S., D.D. Schiffel and M.E. Mogee, The venture capital market and technological innovation	4 (1975) 380
Bean, A.S. and J.B. Guerard Jr., A comparison of Census/NSF F&D data vs. Compustat R & D data in a financial decision-making model	18 (1989) 193
Bean, A.S., Introductory note	22 (1993) 99
Bean, A.S., <i>see</i> Greis, N.P.,	24 (1995) 609
Bechmann, G., <i>see</i> Ahrens, H.J.,	2 (1973/74) 94
Beise, M. and H. Stahl, Public research and industrial innovations in Germany	28 (1999) 397
Beker, G., <i>see</i> Ahrens, H.J.,	2 (1973/74) 94
Bellini, N., <i>see</i> Bianchi, P.,	20 (1991) 487
Belussi, F. and F. Arcangeli, A typology of networks: flexible and evolutionary firms	27 (1998) 415
Bergeron, S., S. Lallich and C. Le Bas, Location of innovating activities, industrial structure and techno-industrial clusters in the French economy, 1985-1990. Evidence from US patenting	26 (1998) 733
Berggren, U., CT scanning and ultrasonography: A comparison of two lines of development and dissemination	14 (1985) 213
Berman, E.M., The economic impact of industry-funded university R & D	19 (1990) 349
Berry, L.G., <i>see</i> Brown, M.A.,	20 (1991) 121
Berry, M.J., High temperature superconductivity research in the USSR	21 (1992) 513
Berry, M.M.J. and J.H. Taggart, Combining technology and corporate strategy in small high tech firms	26 (1998) 883
Bessant, J. and B. Haywood, Islands, archipelagoes and continents: Progress on the road to computer integrated manufacturing	17 (1988) 349
Bessant, J. and H. Rush, Building bridges for innovation: the role of consultants in technology transfer	24 (1995) 97
Bessant, J., The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms	28 (1999) 601
Bessant, J.R., Influential factors in manufacturing innovation	11 (1982) 117
Betsill, M.M., <i>see</i> Pielke Jr., R.A.,	26 (1998) 157
Bhanich Supapol, A., The commercialization of government-sponsored technologies: Canadian evidence	19 (1990) 369
Bianchi, P. and N. Bellini, Public policies for local networks of innovators	20 (1991) 487
Bianco, L. and P. d'Anselmi, Strengthening the management of public research policy in Italy	15 (1986) 149
Bidault, F., C. Despres and C. Butler, The drivers of cooperation between buyers and suppliers for product innovation	26 (1998) 719
Biggs, S.D., Monitoring and control in agricultural research systems: Maize in Northern India	12 (1983) 37
Bijaoui, I., <i>see</i> Kamin, J.Y.,	11 (1982) 83
Bindon, G. and S. Mukerji, Canada-India nuclear cooperation	7 (1978) 220
Bindon, G. and S. Mukerji, Canada-India nuclear cooperation: A rejoinder to a rebuttal	8 (1979) 191
Birnbaum-More, P.H., A.R. Weiss and R.W. Wright, How do rivals compete: strategy, technology and tactics	23 (1994) 249
Blankenship, L.V., Management, politics and science: A non-separable system	3 (1974/75) 244
Blind, K. and H. Grupp, Interdependencies between the science and technology infrastructure and innovation activities in German regions: empirical findings and policy consequences	28 (1999) 451
Blume, S.S., Behavioural aspects of research management-a review	3 (1974/75) 40
Blume, S.S., The significance of technological change in medicine: An introduction	14 (1985) 173
Blumenthal, D., <i>see</i> Gluck, M.E.,	16 (1987) 327
Blumenthal, T., R & D in Israeli industry	7 (1978) 62
Bodewitz, H., G. de Vries and P. Weeder, Towards a cognitive model for technology-oriented R & D progress	17 (1988) 213
Boisot, M.H., Is your firm a creative destroyer? Competitive learning and knowledge flows in the technological strategies of firms	24 (1995) 489
Bollinger, L., K. Hope and J.M. Utterback, A review of literature and hypotheses on new technology based firms	12 (1983) 1
Bonen, Z., Evolutionary behavior of socio-technical systems	10 (1981) 26
Bornstein, M., Pricing research and development services in the USSR	13 (1984) 85
Boschma, R.A., The rise of clusters of innovative industries in Belgium during the industrial epoch	28 (1999) 851
Bosworth, D.L., Recent trends in research and development in the United Kingdom	8 (1979) 164
Bosworth, D.L., The transfer of U.S. technology abroad	9 (1980) 378
Bosworth, D.L., Foreign patent flows to and from the United Kingdom	13 (1984) 115
Bourke, P. and L. Butler, Institutions and the map of science: matching university departments and fields of research	26 (1998) 711
Bourke, P. and L. Butler, The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences	28 (1999) 489
Bozeman, B., K. Roering and E.A. Slusher, Social structures and the flow of scientific information in public agencies: An ideal design	7 (1978) 384
Bozeman, B. and A.N. Link, Tax incentives for R & D: A critical evaluation	13 (1984) 21

Bozeman, B., <i>see</i> Crow, M.,	16 (1987) 229
Bozeman, B., <i>see</i> Kingsley, G.,	25 (1997) 967
Braun, D., The role of funding agencies in the cognitive development of science	27 (1998) 807
Breemhaar, B., <i>see</i> Spangenberg, J.F.A.,	19 (1990) 239
Breitzman, A., <i>see</i> Narin, F.,	24 (1995) 507
Bresson, C. and J. Townsend, Notes on the inter-industrial flow of technology in post-war Britain	7 (1978) 48
Brickman, R., French policy and the changing role of the university	6 (1977) 128
Brisolla, S.N., <i>see</i> Etzkowitz, H.,	28 (1999) 337
Brockhoff, K., The measurement of goal attainment of governmental R & D support	12 (1983) 171
Brooks, H., The relationship between science and technology	23 (1994) 477
Brosi, G., <i>see</i> Ahrens, H.J.,	2 (1973/74) 94
Brouwer, E. and A. Kleinknecht, Measuring the unmeasurable: a country's non-R & D expenditure on product and service innovation	25 (1997) 1235
Brouwer, E. and A. Kleinknecht, Innovative output, and a firm's propensity to patent	28 (1999) 615
Brown, M.A., The cost of commercializing energy inventions	19 (1990) 147
Brown, M.A., L.G. Berry and R.K. Goel, Guidelines for successfully transferring government-sponsored innovations	20 (1991) 121
Brown, M.A., T.R. Curlee and S.R. Elliott, Evaluating technology innovation programs: the use of comparison groups to indentify impacts	24 (1995) 669
Bruder, W., Innovation behavior of small and medium-scale firms: Reform possibilities for R & D policy-making on the federal state level in the Federal Republic of Germany	12 (1983) 213
Bruno, S., <i>see</i> Amendola, M.,	19 (1990) 419
Buesa, M., <i>see</i> Molero, J.,	22 (1993) 265
Buesa, M., <i>see</i> Molero, J.,	25 (1997) 647
Bughin, J. and J.M. Jacques, Managerial efficiency and the Schumpeterian link between size, market structure and innovation revisited	23 (1994) 653
Buijs, J.A., Innovation can be taught	16 (1987) 303
Burger, W.J.M., <i>see</i> Moed, H.F.,	14 (1985) 131
Burke, J.F., <i>see</i> Thomas, S.M.,	24 (1995) 645
Burns, E.M. and K.E. Studer, Reflections on Alvin M. Weinberg: a case study on the social foundations of science policy	4 (1975) 28
Burns, E.M. and K.E. Studer, Reply to Alvin M. Weinberg	5 (1976) 201
Butler, C., <i>see</i> Bidault, F.,	26 (1998) 719
Butler, L., <i>see</i> Bourke, P.,	26 (1998) 711
Butler, L., <i>see</i> Bourke, P.,	28 (1999) 489
Buzzacchi, L., M.G. Colombo and S. Mariotti, Technological regimes and innovation in services: the case of the Italian banking industry	24 (1995) 151
Cadena, G., <i>see</i> Waissbluth, M.,	17 (1988) 341
Cainarca, C.C., M.G. Colombo and S. Mariotti, An evolutionary pattern of innovation diffusion. The case of flexible automation	18 (1989) 59
Cainarca, G.C., M.G. Colombo and S. Mariotti, Agreements between firms and the technological life cycle model: Evidence from information technologies	21 (1992) 45
Callahan, J.R., <i>see</i> Bailletti, A.J.,	24 (1995) 913
Callon, M., The State and technical innovation: A case study of the electrical vehicle in France	9 (1980) 358
Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray, The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME	21 (1992) 215
Callon, M., <i>see</i> Mangematin, V.,	24 (1995) 441
Cambrosio, A., <i>see</i> Mackenzie, M.,	17 (1988) 155
Camí, J., <i>see</i> Goméz, I.,	24 (1995) 459
Cannon, C.M. and K. Grossfield, Public bodies as entrepreneurs	8 (1979) 154
Cantwell, J., Technology and the firm: introduction	27 (1998) iii
Cantwell, J. and O. Janne, Technological globalisation and innovative centres: the role of corporate technological leadership and locational hierarchy	28 (1999) 119
Carlsson, B., The content of productivity growth in Swedish manufacturing	10 (1981) 336
Carlsson, B., The content of productivity growth in Swedish manufacturing	22 (1993) 102
Carlsson, B. and S. Jacobsson, Technological systems and economic policy: the diffusion of factory automation in Sweden	23 (1994) 235

Carter, A.P., Knowhow trading as economic exchange	18 (1989) 155
Casimir, G.B., Industries and academic freedom	1 (1971/72) 3
Cassiman, B., <i>see</i> Veugelers, R.	28 (1999) 63
Castagnos, J.C. and C. Echevin, The strategy of university research laboratories in France	14 (1985) 345
Catling, H. and R. Rothwell, Automation in textile machinery	6 (1977) 164
Chakrabarti, A.K., <i>see</i> Rajan, J.V.	10 (1981) 172
Chakrabarti, A.K., Innovation and productivity: An analysis of the chemical, textiles and machine tool industries in the U.S	19 (1990) 257
Chang, H. and D. Dieks, The Dutch output of publications in physics	5 (1976) 380
Chapman, I.D., C. Farina and M. Gibbons, The funding of university research: A comparative study of the United Kingdom and Canada	11 (1982) 15
Chapman, I.D. and C. Farina, Peer Review and national need	12 (1983) 317
Charles, D., <i>see</i> Rappert, B.	28 (1999) 871
Chaudhuri, S., Technological innovation in a research laboratory in India: A case study	15 (1986) 89
Chen, C.F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors	25 (1997) 759
Chen, S.H., Decision making in research and development collaboration	26 (1998) 121
Christensen, C.M. and R.S. Rosenbloom, Explaining the attacker's advantage: technological paradigms, organizational dynamics, and the value network	24 (1995) 233
Christensen, J.F., Asset profiles for technological innovation	24 (1995) 727
Cines, M., <i>see</i> Achilladelis, B..	16 (1987) 175
Cines, M., <i>see</i> Achilladelis, B..	19 (1990) 1
Clark, K.B., <i>see</i> Abernathy, W.J..	14 (1985) 3
Clark, K.B., The interaction of design hierarchies and market concepts in technological evolution	14 (1985) 235
Clark, K.B., <i>see</i> Abernathy, W.J..	22 (1993) 102
Clark, N., Organizational aspects of Nigeria's research system	9 (1980) 148
Clark, N.G., Science, technology and regional economic development	1 (1971/72) 296
Clarysse, B., K. Debackere and M.A. Rappa, Modelling the persistence of organizations in an emerging field: the case of hepatitis C	25 (1997) 671
Coenen, R., The use of technological forecasts in government planning	1 (1971/72) 156
Coenen, R., <i>see</i> Ahrens, H.J..	2 (1973/74) 94
Coker, K., <i>see</i> Kingsley, G..	25 (1997) 967
Collins, P. and S. Wyatt, Citations in patents to the basic research literature	17 (1988) 65
Colombo, M.G., <i>see</i> Cainarca, C.C..	18 (1989) 59
Colombo, M.G., <i>see</i> Cainarca, G.C..	21 (1992) 45
Colombo, M.G., <i>see</i> Buzzacchi, L..	24 (1995) 151
Colombo, M.G. and P. Garonne, Technological cooperative agreements and firms' R & D intensity, A note on causality relations	25 (1997) 923
Colombo, U., A Viewpoint on innovation and the chemical industry	9 (1980) 204
Colton, R.M., Rejoinder to 'Government policies for technological innovation' by Robbins and Milliken	6 (1977) 241
Conn, W.D., The neglect of socio-economic research by US energy and environmental agencies	7 (1978) 198
Cooke, P., M. Gomez Uranga and G. Extebarria, Regional innovations systems: Institutional and organisational dimensions	26 (1998) 475
Coombs, R., <i>see</i> Gibbons, M..	11 (1982) 289
Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator	25 (1997) 403
Coombs, R. and R. Hull, 'Knowledge management practices' and path-dependency in innovation	27 (1998) 237
Cooray, N., Knowledge accumulation and technological advance: The case of synthetic rubber	14 (1985) 83
Cordero, R., The measurement of innovation performance in the firm: An overview	19 (1990) 185
Cordes, J.J., Tax incentives and R & D spending: A review of the evidence	18 (1989) 119
Cottrell, T., Fragmented standards and the development of Japan's microcomputer software industry	23 (1994) 143
Courtial, J.P. and J.C. Remy, Towards the 'cognitive management' of a research institute	17 (1988) 225
Courtial, J.P., <i>see</i> Turner, W.A..	19 (1990) 467
Cowan, R. and D. Foray, Quandaries in the economics of dual technologies and spillovers from military to civilian research and development	24 (1995) 851
Cozzens, S., <i>see</i> Leydesdorff, L..	23 (1994) 217
Craig, B., <i>see</i> Pardey, P.G..	18 (1989) 289
Cramer, J., Options for mission-orientation in ecology	17 (1988) 75

- Crane, D., Technological innovation in developing countries: a review of the literature
 Crow, M. and B. Bozeman, R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior.
 Curlee, T.R., *see* Brown, M.A.,
 Cusumano, M.A. and K. Nobeoka, Strategy, structure and performance in product development: Observations from the auto industry
 Cusumano, M.A., Shifting economies: From craft production to flexible systems and software factories
 Cusumano, M.A. and D. Elenkov, Linking international technology transfer with strategy and management: a literature commentary
 Czayka, L., The importance of graph theory in research planning
 Czayka, L., *see* Ahrens, H.J.,
 Czerwon, H.J., *see* Englisch, H.,
 d'Anselmi, P., *see* Bianco, L.,
 da Silveira, J.M., *see* Possas, M.L.,
 Daghfous, A. and G.R. White, Information and innovation: a comprehensive representation
 Dahlman, C.J., *see* Kim, L.,
 Dahlstrand, Å.L., Growth and inventiveness in technology-based spin-off firms
 Dalpé, R., C. DeBresson and H. Xiaoping, The public sector as first user of innovations
 Dalpé, R. and F. Anderson, National priorities in academic research-strategic research and contract in renewable energies
 Dalton, D.H., *see* Serapio Jr., M.G.,
 Daniels, P., Research and development, human capital and trade performance in technology-intensive manufactures: A cross-country analysis
 Daniels, P.L., National technology gaps and trade – an empirical study of the influence of globalisation
 Dankbaar, B., Social assessment of workplace technology – some experiences with the German program 'Humanization of work'
 Darby, M.R., *see* Zucker, L.G.,
 Dasgupta, P. and P.A. David, Toward a new economics of science
 David, P.A., *see* Dasgupta, P.,
 David, P.A., From market magic to calypso science policy. A review of Terence Kealey's '*The Economic Laws of Scientific Research*'
 Davidson Frame, J. and F. Narin, The United States, Japan and the changing technological balance
 Davis, C.H., *see* Eisemon, T.O.,
 De Bresson, C. and F. Amesse, Networks of innovators: A review and introduction to the issue
 de Looze, M.A., *see* Joly, P.B.,
 De Marchi, M., G. Napolitano and P. Taccine, Testing a model of technological trajectories
 de Meyer, A.C.L., The flow of technological innovation in an R & D department
 de Solla Price, D., The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation
 de Solla Price, D., The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation
 De Vet, J.M. and A.J. Scott, The Southern Californian medical device industry: Innovation, new firm information, and location
 de Vries, G., *see* Bodewitz, H.,
 Debackere, K., *see* Van Dierdonck, R.,
 Debackere, K. and M.A. Rappa, Institutional variations in problem choice and persistence among scientists in an emerging field
 Debackere, K. and M.A. Rappa, Scientists at major and minor universities: mobility along the prestige continuum
 Debackere, K., *see* Clarysse, B.,
 DeBresson, C., *see* Dalpé, R.,
 DeBresson, C., Predicting the most likely diffusion sequence of a new technology through the economy: The case of superconductivity
 Degenaars, G.H., *see* Janszen, F.H.A.,
 Delapierre, M., B. Madeuf and A. Savoy, NTBFs – the French case
 DeLeon, P., The evaluation of technology R & D: A continuing dilemma
- 6 (1977) 374
 16 (1987) 229
 24 (1995) 669
 21 (1992) 265
 21 (1992) 453
 23 (1994) 195
 1 (1971/72) 60
 2 (1973/74) 94
 19 (1990) 477
 15 (1986) 149
 25 (1997) 933
 23 (1994) 267
 21 (1992) 437
 26 (1998) 331
 21 (1992) 251
 24 (1995) 563
 28 (1999) 303
 22 (1993) 207
 25 (1997) 1189
 16 (1987) 337
 26 (1998) 429
 23 (1994) 487
 23 (1994) 487
 26 (1998) 229
 19 (1990) 447
 25 (1997) 107
 20 (1991) 363
 25 (1997) 1027
 25 (1997) 13
 14 (1985) 315
 13 (1984) 1
 22 (1993) 112
 21 (1992) 145
 17 (1988) 213
 19 (1990) 551
 23 (1994) 425
 24 (1995) 137
 25 (1997) 671
 21 (1992) 251
 24 (1995) 685
 27 (1998) 37
 26 (1998) 989
 11 (1982) 347

- Den Hond, F., On the structuring of variation in innovation processes: a case of new product development in the crop protection industry **27** (1998) 349
- Desai, A.V., The origin and direction of industrial R & D in India **9** (1980) 74
- Desai, A.V., India's technological capability in the capital goods sector: The case of Singapore **13** (1984) 303
- Desai, A.V., Market structure and technology: Their interdependence in Indian industry **14** (1985) 161
- Despres, C., *see* Bidault, F. **26** (1998) 719
- Desranleau, C., *see* Amesse, F. **20** (1991) 13
- Dibner, M.D., *see* Greis, N.P. **24** (1995) 609
- Dickson, K., The influence of Ministry of Defence funding on semiconductor research and development in the United Kingdom **12** (1983) 113
- Dickson, K., *see* Lawton Smith, H. **20** (1991) 457
- Dieks, D., *see* Chang, H. **5** (1976) 380
- Dinar, A., Resource allocation for agricultural research **20** (1991) 145
- Dörfer, I.N.H., Science and technology in Sweden: the Fabians versus Europe **3** (1974/75) 134
- Dorfman, N., Route 128: The development of a regional high technology economy **12** (1983) 299
- Dosi, G., Technological paradigms and technological trajectories: A suggested interpretation of the determinants and directions of technical change **11** (1982) 147
- Dosi, G., *see* Arcangeli, F. **20** (1991) 515
- Dosi, G., Technological paradigms and technological trajectories **22** (1993) 102
- Douds, C.F., *see* Köhler, B.M. **2** (1973/74) 160
- Douds, C.F., *see* Rubenstein, A.H. **6** (1977) 324
- Dowling, M.J. and T.W. Ruefli, Technological innovation as a gateway to entry: The case of the telecommunications equipment industry **21** (1992) 63
- Doyle, C.J. and M.S. Ridout, The impact of scientific research on UK agricultural productivity **14** (1985) 109
- Drath, L., M. Gibbons and J. Ronayne, The European molecular biology organisation: a case-study of decision-making in science policy **4** (1975) 56
- Drath, P., M. Gibbons and R. Johnston, The super-computer project: a case study in the interaction of science, government and industry in the UK **6** (1977) 2
- Dunning, J.H., Multinational enterprises and the globalization of innovative capacity **23** (1994) 67
- Durand, T., Dual technological trees: Assessing the intensity and strategic significance of technological change **21** (1992) 361
- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation **25** (1997) 1
- Duysters, G., *see* van Dijk, T. **27** (1998) 937
- Dvir, D., *see* Shenhar, A.J. **25** (1997) 607
- Dvir, D., S. Lipovetsky, A. Shenhar and A. Tishler, In search of project classification: a non-universal approach to project success factors **27** (1998) 915
- Eads, G., US Government support for civilian technology: economic theory versus political practice **3** (1974/75) 2
- Echevin, C., *see* Castagnos, J.C. **14** (1985) 345
- Edge, D., *see* Williams, R. **25** (1997) 865
- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system **25** (1997) 107
- Elenkov, D., *see* Cusumano, M.A. **23** (1994) 195
- Elliott, S.R., *see* Brown, M.A. **24** (1995) 669
- Elzinga, A., Science policy in Sweden: Sectorization and adjustment to crisis **9** (1980) 116
- Engelen, B., *see* Van Dierdonck, R. **19** (1990) 551
- Engelsman, E.C. and A.F.J. Van Raan, A patent-based cartography of technology **23** (1994) 1
- Engerman, S.L., The big picture: how (and when and why) the West grew rich **23** (1994) 547
- Englisch, H. and H.J. Czerwon, Quantification of the performance of research units: A simple mathematical model **19** (1990) 477
- Ernst, H., Industrial research as a source of important patents **27** (1998) 1
- Esubiyi, A.O., *see* Oyelaran-Oyeyinka, B. **25** (1997) 1081
- Etemad, H., *see* Amesse, F. **20** (1991) 13
- Eto, H. and M. Fujita, Regularities in the growth of high technology industries in regions **18** (1989) 135
- Ettlie, J.E., The commercialization of federally sponsored technological innovations **11** (1982) 173
- Ettlie, J.E., Policy implications of the innovation process in the U.S. food sector **12** (1983) 239
- Etzkowitz, H., The norms of entrepreneurial science: cognitive effects of the new university-industry linkages **27** (1998) 823
- Etzkowitz, H. and S.N. Brisolla, Failure and success: the fate of industrial policy in Latin America and South East Asia **28** (1999) 337
- Evangelista, R., *see* Vivarelli, M. **25** (1997) 1013

- Evangelista, R., G. Perani, F. Rapiti and D. Archibugi, Nature and impact of innovation in manufacturing industry:
some evidence from the Italian innovation survey
26 (1998) 521
- Evangelista, R., *see* Sirilli, G.
27 (1998) 881
- Extebarria, G., *see* Cooke, P.
26 (1998) 475
- Fagerberg, J., A technology gap approach to why growth rates differ
16 (1987) 87
- Fagerberg, J., A technology gap approach to why rates differ
22 (1993) 103
- Falk, C.E., An operational, policy-oriented research categorization scheme
2 (1973/74) 186
- Farina, C. and M. Gibbons, A quantitative analysis of the Science Research Council's policy of 'selectivity and concentration'
8 (1979) 306
- Farina, C. and M. Gibbons, The impact of the Science Research Council's policy of selectivity and concentration on average levels of research support: 1965-1974
10 (1981) 202
- Farina, C., *see* Chapman, I.D.,
11 (1982) 15
- Farina, C., *see* Chapman, I.D.,
12 (1983) 317
- Faulkner, W. and J. Senker, Making sense of diversity: public-private sector research linkage in three technologies
23 (1994) 673
- Faust, R.E., Assessing research output and momentum
3 (1974/75) 156
- Fawkes, S.D. and J.K. Jacques, Problems of adoption and adaptation of energy-conserving innovations in UK beverage and dairy industries
16 (1987) 1
- Feller, I., P. Madden, L. Kaltreider, D. Moore and L. Sims, The new agricultural research and technology transfer policy agenda
16 (1987) 315
- Feller, I., Universities as engines of R & D-based economic growth: They think they can
19 (1990) 335
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs
25 (1997) 309
- Feller, I. and J.P. Nelson, The microeconomics of manufacturing modernization programs
28 (1999) 805
- Felsenstein, D. and R. Bar-El, Measuring the technological intensity of the industrial sector: A methodological and empirical approach
18 (1989) 239
- Fernández, M.T., *see* Goméz, I.,
24 (1995) 459
- Fiebelkorn, N., *see* Peters, L.,
27 (1998) 255
- Finkelstein, S.N. and D.L. Gilbert, Scientific evidence and the abandonment of medical technology: A study of eight drugs
14 (1985) 225
- Finnie, R., *see* Lavoie, M.,
27 (1998) 143
- Fleck, J., Learning by trying: the implementation of configurational technology
23 (1994) 637
- Florida, R., *see* Kenney, M.,
23 (1994) 305
- Florida, R., The globalization of R & D: Results of a survey of foreign affiliated R & D laboratories in the USA
26 (1998) 85
- Florida, R.L and M. Kenney, Venture capital-financed innovation and technological change in the USA
17 (1988) 119
- Folkers, H., *see* Ahrens, H.J.,
2 (1973/74) 94
- Föhlster, S., The 'incentive subsidy' for government support of private R & D
17 (1988) 105
- Föhlster, S., Do subsidies to cooperative R & D actually stimulate R & D investment and cooperation?
24 (1995) 403
- Fontes, M., *see* Laranja, M.,
26 (1998) 1023
- Foray, D. and A. Grubler, Morphological analysis, diffusion and lock out of technologies: Ferrous casting in France and the FRG
19 (1990) 535
- Foray, D., The secrets of industry are in the air: Industrial cooperation and the organizational dynamics of the innovative firm
20 (1991) 393
- Foray, D., *see* Cowan, R.,
24 (1995) 851
- Fortescue, S., Project planning in Soviet R & D
14 (1985) 267
- Fortier, Y., *see* Amesse, F.,
20 (1991) 13
- Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry
25 (1997) 531
- Frame, J.D. and F. Narin, The national self-preoccupation of American scientists: An empirical view
17 (1988) 203
- Frame, J.D., *see* Tong, X.,
23 (1994) 133
- Franke, R., *see* Thomke, S.,
27 (1998) 315
- Frankfort, J.G., *see* Moed, H.F.,
14 (1985) 131
- Fransman, M., Promoting technological capability: An analysis in the capital goods sector: The case of Singapore
13 (1984) 33
- Fransman, M. and S. Tanaka, Government, globalisation and universities in Japanese biotechnology
24 (1995) 13
- Fredriksen, T., *see* Grønhaug, K.,
13 (1984) 165
- Freeman, C., *see* Rothwell, R.,
3 (1974/75) 258
- Freeman, C., Editorial introduction
16 (1987) 55
- Freeman, C., H. Krauch and K. Pavitt, Keichi Oshima
18 (1989) 253
- Freeman, C., Networks of innovators: A synthesis of research issues
20 (1991) 499

Freeman, C., <i>see</i> Rothwell, R.	22 (1993) 110
Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp, Technometric evaluation and technology policy: the case of biodiagnostic kits in Israel	23 (1994) 281
Frenken, K., P.P. Saviotti and M. Trommetter, Variety and niche creation in aircraft, helicopters, motorcycles and microcomputers	28 (1999) 469
Frischtak, C.R., Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience	23 (1994) 601
Frost, M., <i>see</i> Robertson, A.	7 (1978) 292
Frumau, C.C.F., Choices in R & D and business portfolio in the electronics industry: What the bibliometric data show	21 (1992) 97
Fujita, M., <i>see</i> Eto, H.	18 (1989) 135
Fukasaku, Y., Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki Shipyard	21 (1992) 197
Furtado, A., The French system of innovation in the oil industry: some lessons about the role of public policies and sectoral patterns of technological change in innovation networking	25 (1997) 1243
Gaffard, J.L., <i>see</i> Amendola, M..	23 (1994) 627
Gaillard, J., <i>see</i> Eisemon, T.O..	25 (1997) 107
Galai, D., <i>see</i> Toren, N.,	7 (1978) 362
Galende Del Canto, J. and I. Suárez González, A resource-based analysis of the factors determining a firm's R & D activities	28 (1999) 889
Gallouj, F. and O. Weinstein, Innovation in services	26 (1998) 537
Gambardella, A., Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s	21 (1992) 391
Gambardella, A., <i>see</i> Arora, A..	23 (1994) 523
Gambardella, A. and S. Torrisi, Does technological convergence imply convergence in markets? Evidence from the electronics industry	27 (1998) 445
Gans, D.J., <i>see</i> Koenig, M.E.D.,	4 (1975) 330
Gardner, N.K., The appraisal and control of complex development projects	1 (1971/72) 122
Garnsey, E., <i>see</i> Moore, I.,	22 (1993) 507
Garonne, P., <i>see</i> Colombo, M.G.,	25 (1997) 923
Garrette, B. and B. Quelin, An empirical study of hybrid forms of governance structure: the case of the telecommunication equipment industry	23 (1994) 395
Garud, R., Cooperative and competitive behaviors during the process of creative destruction	23 (1994) 385
Gassmann, O. and M. von Zedtwitz, New concepts and trends in international R & D organization	28 (1999) 231
Gates, W., Federally supported commercial technology development: Solar thermal technologies 1970-1982	17 (1988) 27
Gaudin, M.T., Public opinion on innovation in France	5 (1976) 106
Gauthier, É., <i>see</i> Leydesdorff, L.,	25 (1997) 431
Gazis, D.C., Influence of technology on science: A comment on some experiences at IBM research	8 (1979) 244
Gehriger, H., The ESTEC project control system	1 (1971/72) 274
Genb, E. and Y. Kislev, Farmers' financing of agricultural research in Israel	11 (1982) 321
Gemünden, H.G. and P. Heydebreck, The influence of business strategies on technological network activities	24 (1995) 831
Genus, A., Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel	26 (1998) 169
Georghiou, L., Global cooperation in research	27 (1998) 611
Geroski, P.A., J. Van Reenen and C.F. Walters, How persistently do firms innovate?	26 (1998) 33
Gerybadze, A. and G. Reger, Globalization of R & D: recent changes in the management of innovation in transnational corporations	28 (1999) 251
Geschka, H., <i>see</i> Rubenstein, A.H.,	6 (1977) 324
Geuna, A., Determinants of university participation in EU-funded R & D cooperative projects	26 (1998) 677
Gibbons, M. and R. Johnston, The roles of science in technological innovation	3 (1974/75) 220
Gibbons, M., <i>see</i> Drath, L.,	4 (1975) 56
Gibbons, M., <i>see</i> Drath, P.,	6 (1977) 2
Gibbons, M., <i>see</i> Gummelt, P.,	7 (1978) 268
Gibbons, M. and D. Littler, The development of an innovation: The case of Porvair	8 (1979) 2
Gibbons, M., <i>see</i> Farina, C.,	8 (1979) 306
Gibbons, M., <i>see</i> Farina, C.,	10 (1981) 202
Gibbons, M., <i>see</i> Chapman, I.D.,	11 (1982) 15
Gibbons, M., R. Coombs, P. Saviotti and P.C. Stubbs, Innovation and technical change: A case study of the U.K. tractor industry 1957-1977	11 (1982) 289

Gibbons, M. and R. Johnston, The roles of science in technological innovation	22 (1993) 103
Gibson, H., <i>see</i> Padmore, T.,	26 (1998) 605
Gibson, H., <i>see</i> Padmore, T.,	26 (1998) 625
Gibson, S.G., <i>see</i> Moravcsik, M.J.,	8 (1979) 26
Gielow, G., <i>see</i> Meyer-Krahmer, F.,	12 (1983) 153
Gilbert, D.L., <i>see</i> Finkelstein, S.N.,	14 (1985) 225
Gimpl, M.L., Science policy in New Zealand	3 (1974/75) 124
Ginarte, J.C. and W.G. Park, Determinants of patent rights: A cross-national study	26 (1998) 283
Glasmeier, A., Technological discontinuities and flexible production networks: The case of Switzerland and the world watch industry	20 (1991) 469
Glasmeier, A., <i>see</i> Feller, I.,	25 (1997) 309
Glick, R., R & D effort and US exports and foreign affiliate production of manufactures	11 (1982) 359
Globerman, S., Technological diffusion in the Canadian carpet industry	4 (1975) 190
Gluck, M.E., D. Blumenthal and M.A. Soto, University-industry relationships in the life sciences: Implications for students and post-doctoral fellows	16 (1987) 327
Godin, B., Research and the practice of publication in industries	25 (1997) 587
Godin, B., <i>see</i> Niosi, J.,	28 (1999) 215
Goel, R.K., <i>see</i> Brown, M.A.,	20 (1991) 121
Gold, B., What is the place of research and technological innovations in business planning?	2 (1973/74) 128
Gold, B., Harnessing the capabilities of CIM: The critical role of senior management	18 (1989) 173
Goldhor, R.S. and R.T. Lund, University-to-industry advanced technology transfer: A case study	12 (1983) 121
Gomez Uranga, M., <i>see</i> Cooke, P.,	26 (1998) 475
Gómez, I., E. Sanz and A. Méndez, Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience	19 (1990) 457
Goméz, I., M.T. Fernández, M.A. Zulueta and J. Camí, Analysis of biomedical research in Spain	24 (1995) 459
Gonard, T., <i>see</i> Callon, M.,	21 (1992) 215
Goto, A., <i>see</i> Peck, M.J.,	10 (1981) 222
Gottinger, H.W., Estimating demand for SDI-related spin-off technologies	22 (1993) 73
Grande, E. and A. Peschke, Transnational cooperation and policy networks in European science policy-making	28 (1999) 43
Granstrand, O. and S. Sjölander, Managing innovation in multi-technology corporations	19 (1990) 35
Granstrand, O., L. Häkanson and S. Sjölander, Internationalization of R & D - A survey of some recent research	22 (1993) 413
Granstrand, O., Towards a theory of the technology-based firm	27 (1998) 465
Granstrand, O., Internationalization of corporate R & D: a study of Japanese and Swedish corporations	28 (1999) 275
Green, K., R. Hull, A. McMeekin and V. Walsh, The construction of the techno-economic: networks vs. paradigms	28 (1999) 775
Greenwood, A., Response to Research Policy on article on MRCA	4 (1975) 207
Greis, N.P., M.D. Dibner and A.S. Bean, External partnering as a response to innovation barriers and global competition in biotechnology	24 (1995) 609
Gresser, K., Application of PPBS to R & D planning	2 (1973/74) 40
Gresser, K., <i>see</i> Paschen, H.,	2 (1973/74) 306
Groenewegen, P., <i>see</i> Peters, L.,	27 (1998) 255
Grønhaug, K. and T. Fredriksen, Governmental innovation support in Norway: Micro- and macro-level effects	13 (1984) 165
Grossfield, K., <i>see</i> Cannon, C.M.,	8 (1979) 154
Gruber, H., Trade policy and learning by doing: the case of semiconductors	25 (1997) 723
Grübler, A., <i>see</i> Foray, D.,	19 (1990) 535
Grupp, H., The measurement of technical performance of innovations by technometrics and its impact on established technology indicators	23 (1994) 175
Grupp, H., <i>see</i> Frenkel, A.,	23 (1994) 281
Grupp, H., <i>see</i> Noyons, E.C.M.,	23 (1994) 443
Grupp, H. and U. Schmoch, Patent statistics in the age of globalisation: new legal procedures, new analytical methods, new economic interpretation	28 (1999) 377
Grupp, H., <i>see</i> Blind, K.,	28 (1999) 451
Guerard Jr., J.B., <i>see</i> Bean, A.S.,	18 (1989) 193
Guice, J., Designing the future: the culture of new trends in science and technology	28 (1999) 81
Gummelt, P. and M. Gibbons, Government research for industry: Recent British Developments	7 (1978) 268
Gummelt, P.J., <i>see</i> Aked, N.H.,	5 (1976) 270
Guy, K., <i>see</i> Quintas, P.,	24 (1995) 325

Haberer, J., <i>see</i> Anand, H.R.,	7 (1978) 26
Habermeier, K.F., Product use and product improvement	19 (1990) 271
Hagedoorn, J. and J. Schakenraad, Leading companies and networks of strategic alliances in information technologies	21 (1992) 163
Hagedoorn, J., Strategic technology partnering during the 1980s: trends, networks and corporate patterns in non-core technologies	24 (1995) 207
Hagedoorn, J., <i>see</i> Duysters, G.,	25 (1997) 1
Hagedoorn, J. and J.B. Sedaitis, Partnerships in transition economies: international strategic technology alliances in Russia	27 (1998) 177
Håkanson, L. and R. Nobel, Foreign research and developments in Swedish multinationals	22 (1993) 373
Håkanson, L. and R. Nobel, Determinants of foreign R & D in Swedish multinationals	22 (1993) 397
Håkanson, L., <i>see</i> Granstrand, O.,	22 (1993) 413
Hallaway, M.L., <i>see</i> Pardey, P.G.,	18 (1989) 289
Hallsworth, E.G., Research priorities and science policy objectives for the management of soils in arid lands	11 (1982) 373
Ham, R.M. and D.C. Mowery, Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory	26 (1998) 661
Hamilton, K.S., <i>see</i> Narin, F.,	26 (1998) 317
Hansen, P.A. and G. Serin, Adaptability and product development in the Danish plastics industry	22 (1993) 181
Harabi, N., Appropriability of technical innovations. An empirical analysis	24 (1995) 981
Hare, P. and G. Wyatt, Modelling the determination of research output in British universities	17 (1988) 315
Harhoff, D. and D. Moch, Price indexes for PC database software and the value of code compatibility	26 (1998) 509
Harianto, F. and J.M. Pennings, Technological convergence and scope of organizational innovation	23 (1994) 293
Harrison, B., <i>see</i> Storper, M..	20 (1991) 407
Hartley, K., <i>see</i> Hutton, J.,	14 (1985) 205
Hartnell, G., The innovation of agrochemicals: regulation and patent protection	25 (1997) 379
Hauptman, O., <i>see</i> Roberts, E.B.,	15 (1986) 107
Häusler, J., H.W. Hohn and S. Lütz, Contingencies of innovative networks: A case study of successful interfirm R & D collaboration	23 (1994) 47
Haveman, R., The war on poverty and social science research 1965-1980	15 (1986) 53
Haywood, B., <i>see</i> Bessant, J.,	17 (1988) 349
Healy, P., H. Rothman and P.K. Hoch, An experiment in science mapping for research planning	15 (1986) 233
Hedemark, I. and M. Jul, Growth of an institute	6 (1977) 294
Henderson, R., Of life cycles real and imaginary: The unexpectedly long old age of optical lithography	24 (1995) 631
Henry, N., D. Massey and D. Wield, Along the road: R & D, society and space	24 (1995) 707
Herbertz, H. and B. Müller-Hill, Quality and efficiency of basic research in molecular biology: a bibliometric analysis of thirteen excellent research institutes	24 (1995) 959
Herzog, A.J., Career patterns of scientists in peripheral countries	12 (1983) 341
Hesselink, F.Th., <i>see</i> Moed, H.F.,	25 (1997) 819
Heydebreck, P., <i>see</i> Gemünden, H.G.,	24 (1995) 831
Hicks, D., T. Ishizuka, P. Keen and S. Sweet, Japanese corporations, scientific research and globalization	23 (1994) 375
Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks	25 (1997) 359
Hirasawa, R., <i>see</i> Tanaka, Y.,	25 (1997) 999
Hirsch, H., <i>see</i> Nowotny, H..	9 (1980) 278
Hirsch, H., <i>see</i> Nowotny, H.,	22 (1993) 108
Hirsch, P.B., High-voltage electron microscopy in the UK	3 (1974/75) 78
Hobday, M., Corporate strategy in the international semiconductor industry	18 (1989) 225
Hobday, M., Product complexity, innovation and industrial organization	26 (1998) 689
Hoch, P.K., <i>see</i> Healy, P.,	15 (1986) 233
Hoffmann, W.D., Market structure and strategies of R & D behavior in the data processing market - theoretical thoughts and empirical findings	5 (1976) 334
Höglund, L. and O. Persson, Communication within a national R & D system: A study of iron and steel in Sweden	16 (1987) 29
Hohn, H.W., <i>see</i> Häusler, J.,	23 (1994) 47
Holemans, B. and L. Slewaegen, Innovation expenditures and the role of government in Belgium	17 (1988) 375
Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing	25 (1997) 633
Hollomon, J.H., <i>see</i> Allen, Th.J.,	7 (1978) 124
Holt, K., Information inputs to new product planning and development	7 (1978) 342
Hope, K., <i>see</i> Bollinger, L.,	12 (1983) 1

- Horesh, R., *see* Kamin, J.Y., 83
 Horn, E.-J., Technological balance of payments and international competitiveness: The case of the Federal Republic of Germany
 Horsley, A., *see* Rothwell, R., 91
 Horsley, A., *see* Rothwell, R., 258
 Horsmans, J.W., Innovation management for an industrial product
 Houman Andersen, P., Organizing international technological collaboration in subcontractor relationships: an investigation of the knowledge-stickiness problem
 Howells, J., The location and organisation of research and development: New horizons
 Howells, J., Rethinking the market-technology relationship for innovation
 Howells, J.A., A socio-cognitive approach to innovation
 Howells, J.R., Going global: the use of ICT networks in research and development
 Hughes, K., The interpretation and measurement of R & D intensity – A note
 Huh, K., *see* Scherer, F.M., 133
 Hull, R., *see* Coombs, R., 1209
 Hull, R., *see* Green, K., 110
 Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment
 Hutton, J. and K. Hartley, The influence of health service procurement policy on research and development in the UK medical capital equipment industry
 Hyman, D.B., *see* Allen, T.J., 237
 28 (1999) 274
 28 (1999) 625
 19 (1990) 133
 25 (1997) 1209
 24 (1995) 883
 24 (1995) 169
 17 (1988) 301
 21 (1992) 507
 27 (1998) 237
 28 (1999) 775
 25 (1997) 25
 14 (1985) 205
 12 (1983) 199
 Iammarino, S., *see* Archibugi, D., 317
 Iansiti, M., Technology integration: Managing technological evolution in a complex environment
 Iansiti, M., From technological potential to product performance: an empirical analysis
 Ily-Renko, H., *see* Autio, E., 521
 Inhaber, H., Scientific cities
 Inhaber, H., Changes in centralization of science
 Inhaber, H., The leading edge of science in Canada
 Ionescu-Sisesti, I., *see* Eisemon, T.O., 345
 Irvine, J., *see* Martin, B.R., 973
 Irvine, J., *see* Martin, B.R., 182
 Irvine, J. and B.R. Martin, CERN: Past performance and future prospects II. The scientific performance of the CERN accelerators
 Irvine, J., *see* Martin, B.R., 178
 Irvine, J., B.R. Martin, J. Abraham and T. Peacock, Assessing basic research: Reappraisal and update of an evaluation of four radio astronomy observatories
 Irvine, J., *see* Martin, B.R., 88
 Isard, P.A., *see* Hicks, D.M., 107
 Ishizuka, T., *see* Hicks, D., 107
 Islas, J., Getting round the lock-in in electricity generating systems: the example of the gas turbine
 Israeli, A., *see* Zif, J., 178
 Iwata, H., *see* Odagiri, H., 435
 Jacobsson, S., *see* Carlsson, B., 13
 Jacobs, D., Innovation policies within the framework of internationalization
 Jacobsson, S., Government policy and performance of the Indian engineering industry
 Jacobsson, S. and C. Oskarsson, Educational statistics as an indicator of technological activity
 Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R & D statistics in the case of Sweden
 Jacques, J.K., *see* Fawkes, S.D., 127
 Jacques, J.M., *see* Bughin, J., 573
 Jaffe, A.B., Characterizing the ‘technological position’ of firms, with application to quantifying technological opportunity and research spillovers
 Jakes, P.J., Research evaluation in the U.S. Forest Service: Opinions of research managers
 Jankowski Jr., J.E., Do we need a price index for industrial R & D?
 Janne, O., *see* Cantwell, J., 1
 19 (1990) 435
 15 (1986) 13
 23 (1994) 235
 27 (1998) 711
 20 (1991) 45
 24 (1995) 127
 16 (1987) 213
 22 (1993) 106
 25 (1997) 359
 23 (1994) 375
 26 (1998) 49
 18 (1989) 87
 17 (1988) 283
 22 (1993) 195
 28 (1999) 119

Jansen, D., National research systems and change: the reaction of the British and German research system to the discovery of High-Tc Superconductors	23 (1994) 357
Janszen, F.H.A. and G.H. Degenaars, A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation: the case of the Dutch biotechnological sector	27 (1998) 37
Jasanoff, S., Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany	14 (1985) 23
Jasanoff, S., Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany	22 (1993) 104
Jervis, P., Innovation in electron-optical instruments – two British case histories	1 (1971/72) 174
Jervis, V.T.P., <i>see</i> Rothwell, R..	3 (1974/75) 258
Jervis, V.T.P., <i>see</i> Rothwell, R..	22 (1993) 110
Jimenez-Martinez, J. and Y. Polo-Redondo, International diffusion of a new tool: the case Electronic Data Interchange (EDI) in the retailing sector	26 (1998) 811
Johnes, G., Determinants of research output in economics departments in British universities	17 (1988) 171
Johnson, J., <i>see</i> Baldwin, J.R..	25 (1997) 785
Johnson, P.S., The role of co-operative research in British industry	1 (1971/72) 332
Johnston, R., <i>see</i> Gibbons, M..	3 (1974/75) 220
Johnston, R., <i>see</i> Drath, P..	6 (1977) 2
Johnston, R., <i>see</i> Gibbons, M..	22 (1993) 103
Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R & D: the dynamics of industrial relationships in a large research organisation	25 (1997) 901
Joly, P.B. and M.A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology	25 (1997) 1027
Jones, P.G., <i>see</i> Pachico, D..	16 (1987) 279
Jones, P.M.S., Lessons from the objective appraisal of programmes at the national level – implications of criteria and policy	1 (1971/72) 10
Jones, P.M.S. and A.L. Willett, Evaluation of the benefits of laboratory research and information services	6 (1977) 152
Joshi, N., Technological choice and socio-economic imperative: a case study of textile technologies in India	6 (1977) 202
Joshi, S.S., J.V. Rajan and S.K. Subramanian, The Indian patent system and indigenous R & D	3 (1974/75) 292
Jul, M., <i>see</i> Hedemark, I..	6 (1977) 294
Justman, M. and M. Teubal, Innovation policy in an open economy: A normative framework for strategic and tactical issues	15 (1986) 121
Justman, M. and M. Teubal, Technological infrastructure policy (TIP): creating capabilities and building markets	24 (1995) 259
Kabla, I., <i>see</i> Arundel, A..	27 (1998) 127
Kaltreider, L., <i>see</i> Feller, I..	16 (1987) 315
Kamath, R.R., <i>see</i> Liker, J.K..	25 (1997) 59
Kamin, J.Y., I. Bijaoui and R. Horesh, Some determinants of cost distribution in the process of technological innovations	11 (1982) 83
Karst, I., <i>see</i> Ahrens, H.J..	2 (1973/74) 94
Kash, D.E., <i>see</i> Rycroft, R.W..	23 (1994) 613
Katrak, H., Economic analyses of Industrial Research Institutes in developing countries: the Indian experience	27 (1998) 337
Katz, J.S. and B.R. Martin, What is research collaboration?	26 (1998) 1
Katz, J.S., The self-similar science system	28 (1999) 501
Kauko, K., Effectiveness of R & D subsidies – a sceptical note on the empirical literature	25 (1997) 321
Kawase, T., <i>see</i> Rubenstein, A.H..	6 (1977) 324
Kay, N.M., Corporate decision-making for allocations to research and development	8 (1979) 46
Kealey, T., Why science is endogenous: a debate with Paul David (and Ben Martin, Paul Romer, Chris Freeman, Luc Soete and Keith Pavitt)	26 (1998) 897
Keating, P., <i>see</i> Mackenzie, M..	17 (1988) 155
Keck, O., West German science policy since the early 1960s: trends and objectives	5 (1976) 116
Keck, O., Government policy and technical choice in the West German reactor programme	9 (1980) 302
Keck, O., A theory of white elephants: Asymmetric information in government support for technology	17 (1988) 187
Keck, O., Government policy and technical choice in the West German Reactor Program	22 (1993) 104
Keen, P., <i>see</i> Hicks, D..	23 (1994) 375
Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs	25 (1997) 265
Kemp, R., <i>see</i> van den Ende, J..	28 (1999) 831

- Kenney, M., Schumpeterian innovation and entrepreneurs in capitalism: A case study of the U.S. biotechnology industry 15 (1986) 21
 Kenney, M., *see* Florida, R.L.
- Kenney, M. and R. Florida, The organization and geography of Japanese R & D: results from a survey of Japanese electronics and biotechnology firms 23 (1994) 305
 Khanna, T., Racing behavior. Technological evolution in the high-end computer industry 24 (1995) 933
 Khazam, J. and D.C. Mowery, The commercialization of RISC: Strategies for the creation of dominant designs 23 (1994) 89
 Kim, D.J., *see* Kogut, B.
 Kim, L., Stages of development of industrial technology in a developing country: a model 24 (1995) 77
 Kim, L. and C.J. Dahlman, Technology policy for industrialization: An integrative framework and Korea's experience 9 (1980) 254
 Kimura, K., *see* Thomas, S.M.
 Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation 21 (1992) 437
 Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation 24 (1995) 645
 Kingston, W., Compulsory licensing with capital payments as an alternative to grants of monopoly in intellectual property 25 (1997) 967
 Kislev, Y., *see* Gelb, E.
 Kitti, C., *see* Schiffel, D.
 Klaes, M., Socio-technical constituencies, games theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 25 (1997) 1221
 Kleinknecht, A. and B. Verspagen, Demand and innovation: Schmookler re-examined 19 (1990) 387
 Kleinknecht, A. and J.O.N. Reijnen, More evidence on the undercounting of small firm R & D 20 (1991) 579
 Kleinknecht, A. and J.O.N. Reijnen, Why do firms cooperate on R & D? An empirical study 21 (1992) 347
 Kleinknecht, A., *see* Brouwer, E.
 Kleinknecht, A., *see* Brouwer, E.,
 Klevorick, A.K., R.C. Levin, R.R. Nelson and S.G. Winter, On the sources and significance of interindustry differences in technological opportunities 24 (1995) 185
 Klose, A., Comment on 'Science and technology in the European communities: the history of the COST projects' 5 (1976) 295
 Kobayashi, M., *see* Sakakura, S.
 Koch, C., A dying debate 20 (1991) 531
 2 (1973/74) 88
 Koenig, M.E.D. and D.J. Gans, The productivity of research effort in the US pharmaceutical industry: a statistical approach 4 (1975) 330
 Koenig, M.E.D., A bibliometric analysis of pharmaceutical research 12 (1983) 15
 Kogut, B., G. Walker and D.J. Kim, Cooperation and entry induction as an extension of technological rivalry 24 (1995) 77
 Köhler, B.M., A.H. Rubenstein and C.F. Douds, A behavioural study of international technology transfer between the United States and West Germany 2 (1973/74) 160
 Kondo, M., R & D dynamics of creating patents in the Japanese industry 28 (1999) 587
 Kontorovich, V., The future of Soviet science 23 (1994) 113
 Korevaar, J.C., *see* Tijssen, R.J.W.
 Kortum, S. and J. Lerner, What is behind the recent surge in patenting? 25 (1997) 1277
 Koschatzky, K., *see* Frenkel, A.
 Koski, H., The implications of network use, production network externalities and public networking programmes for firm's productivity 28 (1999) 281
 Kostoff, R.N., Research requirements for research impact assessment 28 (1999) 423
 Krauch, H., Priorities for research and technological development 24 (1995) 869
 Krauch, H., *see* Ahrens, H.J.
 Krauch, H., *see* Freeman, C.
 Krohn, W., *see* van den Daele, W.
 Kruse, H.G., *see* Ahrens, H.J.
 Kuemmerle, W., Optimal scale for research and development in foreign environments – an investigation into size and performance of research and development laboratories abroad 2 (1971/72) 28
 Kuemmerle, W., Foreign direct investment in industrial research in the pharmaceutical and electronics industries – results from a survey of multinational firms 2 (1973/74) 94
 Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R & D activity in developing countries: the case of Indian manufacturing 18 (1989) 253
 Kumaresan, N. and K. Miyazaki, An integrated network approach to systems of innovation – the case of robotics in Japan 27 (1998) 853
 Kuntze, U., *see* Meyer-Krahmer, F. 2 (1973/74) 94
 27 (1998) 111
 28 (1999) 179
 25 (1997) 713
 28 (1999) 563
 12 (1983) 153

- Lachke, A.H., J.V. Rajan, M.C. Srinivasan and S.A. Tambe, Biotechnology development in India: Some policy issues
 Lacroix, R. and F. Martin, Government and the decentralization of R & D
 Laditan, G.O.A., *see* Oyelaran-Oyeyinka, B.
 Laestadius, S., The relevance of science and technology indicators: the case of pulp and paper
 Lall, S., Developing countries as exporters of industrial technology
 Lallich, S., *see* Bergeron, S.
 Lambright, W.H., NASA, ozone, and policy-relevant science
 Lamson, R.W., Science policy-needed research (as note)
 Lancaster, G.A. and M. White, The diffusion and adoption of textile chemicals and dyestuffs within the UK textile industry
 Landau, R., Economic growth and the chemical industry
 Landefeld, J.S., *see* Vehorn, C.L.
 Landry, R. and N. Amara, The impact of transaction costs on the institutional structuration of collaborative academic research
 Langlois, R.N. and P.L. Robertson, Networks and innovation in a modular system: Lessons from the microcomputer and stereo component industries
 Langlois, R.N., *see* Robertson, P.L.
 Langlois, R.N., *see* Mowery, D.C.
 Langowitz, N.S., An exploration of production problems in the initial commercial manufacture of products
 Langrish, J., Innovation in pharmaceuticals
 Langrish, J., *see* Alam, G.
 Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology
 Laranja, M. and M. Fontes, Creative adaptation: the role of new technology based firms in Portugal
 Laredo, P., *see* Callon, M.
 Larédo, P., The networks promoted by the framework programme and the questions they raise about its formulation and implementation
 Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals
 Laville, F., *see* Zitt, M.
 Lavoie, M. and R. Finnie, The occupational dynamics of recent Canadian engineering graduates inside and outside the bounds of technology
 Lawton Smith, H., K. Dickson and S.L. Smith, There are two sides to every story: Innovation and collaboration within networks of large and small firms
 Le Bas, C., *see* Bergeron, S.
 Leach, B., Decision-making in big science – the development of the high-voltage electron microscope
 Lee, J. and A.H. Rubenstein, An analysis of factors influencing the utilization of contract research in a developing country, Korea
 Lee, J., Small firms' innovation in two technological settings
 Lee, J.Y., *see* Mansfield, E.
 Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case
 Lee, M., B. Son and K. Om, Evaluation of national R & D projects in Korea
 Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration
 Lenfant, C.J.M., *see* Robinson, D.M.
 Leonard-Barton, D., Interpersonal communication patterns among Swedish and Boston-area entrepreneurs
 Leonard-Barton, D., Implementation as mutual adaptation of technology and organization
 Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany
 Leoncini, R., The nature of long-run technological change: innovation, evolution and technological systems
 Leray, T., *see* Callon, M.
 Lerner, J., *see* Kortum, S.
 Levin, R.C., *see* Klevorick, A.K.
 Leydesdorff, L. and S. Zeldenrust, Technological change and trade unions
 Leydesdorff, L., Words and co-words as indicators of intellectual organization
 Leydesdorff, L., S. Cozzens and P. Van den Besselaar, Tracking areas of strategic importance using scientometric journal mappings
 Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods
- 17 (1988) 235
 17 (1988) 363
 25 (1997) 1081
 27 (1998) 385
 9 (1980) 24
 26 (1998) 733
 24 (1995) 747
 1 (1971/72) 386
 6 (1977) 358
 23 (1994) 583
 11 (1982) 3
 27 (1998) 901
 21 (1992) 297
 24 (1995) 543
 25 (1997) 947
 17 (1988) 43
 1 (1971/72) 89
 13 (1984) 55
 25 (1997) 549
 26 (1998) 1023
 21 (1992) 215
 27 (1998) 589
 25 (1997) 1121
 28 (1999) 545
 27 (1998) 143
 20 (1991) 457
 26 (1998) 733
 2 (1973/74) 56
 9 (1980) 174
 24 (1995) 391
 25 (1997) 1047
 25 (1997) 491
 25 (1997) 805
 25 (1997) 843
 14 (1985) 189
 13 (1984) 101
 17 (1988) 251
 25 (1997) 415
 27 (1998) 75
 21 (1992) 215
 28 (1999) 1
 24 (1995) 185
 13 (1984) 153
 18 (1989) 209
 23 (1994) 217
 25 (1997) 431

- Licht, G. and E. Nerlinger, New technology-based firms in Germany: a survey of the recent evidence
 Lichtenberg, F.R., Energy prices and induced innovation
 Lichtenberg, F.R., Issues on measuring industrial R & D
 Liebenau, J., Innovation in pharmaceuticals: Industrial R & D in the early twentieth century
 Liker, J.K., R.R. Kamath, S. Nazli Wasti and N. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences?
 Link, A.N., *see* Bozeman, B.
 Link, A.N., On the classification of industrial R & D
 Linsu-Kim, Stages of development of industrial technology in a developing country: A model
 Lipovetsky, S., *see* Dvir, D.
 Little, B., *see* McGuinness, N.W.
 Littler, D., *see* Gibbons, M.
 Liu, X., *see* White, S.
 Long, T.D., Japanese technology policy: achievements and perspectives
 Lott, J., *see* Murray, G.C.
 Løvland, P., Discussion on principles of organizing applied research and development
 Lübbe, H., Some characteristic aspects of science policy in the Federal Republic of Germany
 Lund, R.T., *see* Goldhor, R.S.
 Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center
 Lütz, S., *see* Häusler, J.
 Luukkonen, T. and B. Stähle, Quality evaluations in the management of basic and applied research
 Luukkonen, T., The impacts of research field evaluations on research practice
 Luukkonen, T., The difficulties in assessing the impact of EU framework programmes
 Luwel, M., *see* Noyons, E.C.M.
 Lynam, J.K., *see* Pachico, D.
 Lynn, L.H., *see* Aram, J.D.
 Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework
 Lyon, W.S., *see* Ross, H.H.
- Macdonald, S., The distinctive research of the individual inventor
 Macdonald, S., Theoretically sound? practically useless? Government grants for industrial R & D in Australia
 Macdonald, S. and C. Williams, The survival of the gatekeeper
 Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design
 Macioti, M., Science and technology in the Common Market: a progress report
 Macioti, M., The power and the glory: A note on patents and scientific authors
 Mackenzie, M., A. Cambrosio and P. Keating, The commercial application of a scientific discovery: The case of the hybridoma technique
 Madden, P., *see* Feller, I.
 Madeuf, B., International technology transfers and international technology payments: Definitions, measurement and firms' behaviour
 Madeuf, B., *see* Delapierre, M.
 Maggioni, M.A., *see* Leoncini, R.
 Maidique, M.A. and B.J. Zirger, The new product learning cycle
 Maital, S., *see* Frenkel, A.
 Majumdar, S.K., Does new technology adoption pay? Electronic switching patterns and firm-level performance in US telecommunications
 Majumdar, S.K. and S. Venkataraman, New technology adoption in US telecommunications: The role of competitive pressures and firm-level inducements
 Malecki, E.J., Dimensions of R & D location in the United States
 Malecki, E.J., Science, technology, and regional economic development: Review and prospects
 Malerba, F., Demand structure and technological change: The case of the European semiconductor industry
 Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific
 Malerba, F. and L. Orsenigo, Technological entry, exit and survival: an empirical analysis of patent data
 Mangematin, V. and M. Callon, Technological competition, strategies of the firms and the choice of the first users: the case of road guidance technologies
 Mangematin, V., *see* Joly, P.B.
- 26 (1998) 1005
 15 (1986) 67
 19 (1990) 157
 14 (1985) 179
- 25 (1997) 59
 13 (1984) 21
 25 (1997) 397
 22 (1993) 105
 27 (1998) 915
 10 (1981) 78
 8 (1979) 2
 27 (1998) 369
 4 (1975) 2
 24 (1995) 283
- 2 (1973/74) 322
 3 (1974/75) 172
 12 (1983) 121
- 25 (1997) 233
 23 (1994) 47
 19 (1990) 357
 24 (1995) 349
 27 (1998) 599
 27 (1998) 285
 16 (1987) 279
 21 (1992) 409
 25 (1997) 91
 8 (1979) 260
- 15 (1986) 199
 15 (1986) 269
 23 (1994) 123
 25 (1997) 43
 4 (1975) 290
 9 (1980) 104
- 17 (1988) 155
 16 (1987) 315
- 13 (1984) 125
 26 (1998) 989
 25 (1997) 415
 14 (1985) 299
 23 (1994) 281
- 24 (1995) 803
- 22 (1993) 521
 9 (1980) 2
 10 (1981) 312
 14 (1985) 283
 25 (1997) 451
 28 (1999) 643
- 24 (1995) 441
 25 (1997) 901

Mansell, R., Rethinking the telecommunication infrastructure. The new 'black box'	19 (1990) 501
Mansfield, E., A. Romeo and L. Switzer, R & D price indexes and real R & D expenditures in the United States	12 (1983) 105
Mansfield, E. and L. Switzer, The effects of R & D tax credits and allowances in Canada	14 (1985) 97
Mansfield, E., The diffusion of industrial robots in Japan and the United States	18 (1989) 183
Mansfield, E., Academic research and industrial innovation	20 (1991) 1
Mansfield, E., Academic research and industrial innovation: A further note	21 (1992) 295
Mansfield, E., The diffusion of industrial robots in Japan and the United States	22 (1993) 105
Mansfield, E. and J.Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R & D support	25 (1997) 1047
Mansfield, E., Academic research and industrial innovation: An update of empirical findings	26 (1998) 773
Marcum, J., Introductory note	16 (1987) 57
Mariotti, S., <i>see</i> Cainarca, C.C.	18 (1989) 59
Mariotti, S., <i>see</i> Cainarca, G.C.	21 (1992) 45
Mariotti, S., <i>see</i> Buzzacchi, L.	24 (1995) 151
Mark, M., <i>see</i> Feller, I.	25 (1997) 309
Marriott, R., <i>see</i> Murray, G.C.	27 (1998) 947
Marstrand, P.K., <i>see</i> Smart, C.C.	1 (1971/72) 364
Marstrand, P.K., Production of microbial protein: A study of the development and introduction of a new technology	10 (1981) 148
Martin, B.R. and J. Irvine, Assessing basic research: Some partial indicators of scientific progress in radio astronomy	12 (1983) 61
Martin, B.R. and J. Irvine, CERN: Past performance and future prospects I. CERN's position in world high-energy physics	13 (1984) 183
Martin, B.R., <i>see</i> Irvine, J.	13 (1984) 247
Martin, B.R. and J. Irvine, CERN: Past performance and future prospects III. CERN and the future of world high-energy physics	13 (1984) 311
Martin, B.R., <i>see</i> Irvine, J.	16 (1987) 213
Martin, B.R. and J. Irvine, Assessing basic research	22 (1993) 106
Martin, B.R., <i>see</i> Hicks, D.M.	25 (1997) 359
Martin, B.R., <i>see</i> Katz, J.S.	26 (1998) 1
Martin, F., <i>see</i> Lacroix, R.	17 (1988) 363
Martin, F., The economic impact of Canadian university R & D	27 (1998) 677
Martin, X. and W. Mitchell, The influence of local search and performance heuristics on new design introduction in a new product market	26 (1998) 753
Martinez-Giralt, X., <i>see</i> Macho-Stadler, I.	25 (1997) 43
Massey, D., <i>see</i> Henry, N.	24 (1995) 707
Mayntz, R. and U. Schimank, Linking Theory and Practice: Introduction	27 (1998) 747
Mayntz, R., Socialist academies of sciences: the enforced orientation of basic research at user needs	27 (1998) 781
Mazzoleni, R., Learning and path-dependence in the diffusion of innovations: comparative evidence on numerically controlled machine tools	26 (1998) 405
Mazzoleni, R. and R.R. Nelson, The benefits and costs of strong patent protection: a contribution to the current debate	27 (1998) 273
McAllister, P., <i>see</i> Albert, M.B.	20 (1991) 251
McCarthy, D., <i>see</i> Zif, J.	19 (1990) 435
McCutchen Jr., W.W., Estimating the impact of R & D tax credit on strategic groups in the pharmaceutical industry	22 (1993) 337
McCutcheon, R., Technical change and social need: the case of high-rise flats	4 (1975) 262
McGuinness, N.W. and B. Little, The impact of R & D spending on the foreign sales of new Canadian industrial products	10 (1981) 78
McKendrick, D., Sources of imitation: improving bank process capabilities	24 (1995) 783
McKeon, R. and J.A. Ryan, Evaluations of innovation programs in selected European countries	18 (1989) 379
McMeekin, A., <i>see</i> Green, K.	28 (1999) 775
McQueen, D.H., <i>see</i> Wallmark, J.T.	20 (1991) 325
McQueen, D.H., Distribution of growth rates in highly successful Swedish technical innovations	23 (1994) 713
Melzer, A., An educational TV satellite for India: a critical assessment	5 (1976) 158
Méndez, A., <i>see</i> Gómez, I.	19 (1990) 457
Mensch, G., A new push of basic innovations?	7 (1978) 108
Mercado, A., <i>see</i> Pirela, A.	22 (1993) 431
Metcalfe, J.S., <i>see</i> Saviotti, P.P.	13 (1984) 141
Méthé, D.T., The influence of technology and demand factors on firm size and industrial structure in the DRAM market 1973-1988	21 (1992) 13

Meyer-Krahmer, F., The present status and problems of impact research in technology policy: A case study on the federal program for funding research and development personnel in Germany	10 (1981) 356
Meyer-Krahmer, F., G. Gielow and U. Kuntze, Impacts of government incentives towards industrial innovation: An analysis of the federal programme funding R & D personnel in the Federal Republic of Germany	12 (1983) 153
Meyer-Krahmer, F., Recent results in measuring innovation output	13 (1984) 175
Meyer-Krahmer, F. and P. Montigny, Evaluations of innovation programs in selected European countries	18 (1989) 313
Meyer-Krahmer, F., The German R & D system in transition: Empirical results and prospects of future development	21 (1992) 423
Meyer-Krahmer, F. and P. Motigny, Evaluations of innovation programs in selected European countries	22 (1993) 106
Meyer-Krahmer, F. and U. Schmoch, Science-based technologies: university-industry interactions in four fields	27 (1998) 835
Meyer-Krahmer, F. and G. Reger, New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe	28 (1999) 749
Meyer, M., <i>see</i> Utterback, J.M.,	17 (1988) 15
Meyer, M., <i>see</i> Utterback, J.M.,	22 (1993) 113
Meyers, P.W., Non-linear learning in large technological firms: Period four implies chaos	19 (1990) 97
Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms	25 (1997) 325
Michelet, B., <i>see</i> Turner, W.A.,	19 (1990) 467
Midgley, D., P.D. Morrison and J.H. Roberts, The effect of network structure in industrial diffusion processes	21 (1992) 533
Miller, J.P., <i>see</i> Rubenstein, A.H.,	6 (1977) 324
Miller, R., Global R & D networks and large-scale innovations: The case of the automobile industry	23 (1994) 27
Milliken, J.G., <i>see</i> Robbins, M.D.,	6 (1977) 214
Milliken, J.G., <i>see</i> Robbins, M.D.,	6 (1977) 252
Mitchell, W., Using academic technology: Transfer methods and licensing incidence in the commercialization of American diagnostics imaging equipment research, 1954-1988	20 (1991) 203
Mitchell, W., <i>see</i> Martin, X.,	26 (1998) 753
Miyazaki, K., <i>see</i> Kumaresan, N.,	28 (1999) 563
Mizuta, Y., <i>see</i> Baba, Y.,	24 (1995) 473
Moch, D., <i>see</i> Harhoff, D.,	26 (1998) 509
Mody, A., <i>see</i> Lanjouw, J.O.,	25 (1997) 549
Moed, H.F., W.J.M. Burger, J.G. Frankfort and A.F.J. van Raan, The use of bibliometric data for the measurement of university research	14 (1985) 131
Moed, H.F., <i>see</i> Van Vianen, B.G.,	19 (1990) 61
Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications.	25 (1997) 819
Moed, H.F., <i>see</i> Noyons, E.C.M.,	27 (1998) 285
Mogee, M.E., <i>see</i> Bean, A.S.,	4 (1975) 380
Moggi, M., <i>see</i> Arcangeli, F.,	20 (1991) 515
Mokyr, J., Cardwell's Law and the political economy of technological progress	23 (1994) 561
Molas-Gallart, J., Which way to go? Defence technology and the diversity of 'dual-use' technology transfer	26 (1998) 367
Molero, J., Foreign technology in the Spanish economy: An analysis of the recent evolution	12 (1983) 269
Molero, J. and M. Buesa, Multinational companies and technological change: Basic traits and taxonomy of the behavior of German industrial companies in Spain	22 (1993) 265
Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region	25 (1997) 647
Molero, J., Patterns of internationalization of Spanish innovative firms	27 (1998) 541
Molina, A.H., Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of British-European capabilities in information technologies	19 (1990) 309
Molina, A.H., In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry.	22 (1993) 479
Montigny, P., <i>see</i> Meyer-Krahmer, F.,	18 (1989) 313
Montresor, S., <i>see</i> Leoncini, R.,	25 (1997) 415
Moore, D., <i>see</i> Feller, I.,	16 (1987) 315
Moore, I. and E. Garnsey, Funding for innovation in small firms: The role of government	22 (1993) 507
Moravcsik, M.J., Measures of scientific growth	2 (1973/74) 266
Moravcsik, M.J., A refinement of extrinsic criteria for scientific choice	3 (1974/75) 88
Moravcsik, M.J., Phenomenology and models of the growth of science	4 (1975) 80
Moravcsik, M.J., The crisis in particle physics	6 (1977) 78
Moravcsik, M.J. and S.G. Gibson, The dynamics of scientific manpower and output	8 (1979) 26

Moravcsik, M.J., The role of science in technology transfer	12 (1983) 287
Moravcsik, M.J., Two perceptions of science development	15 (1986) 1
Moravcsik, M.J., The limits of science and the scientific method	17 (1988) 293
Morrison, P.D., <i>see</i> Midgley, D.	21 (1992) 533
Morrison, R.W. and E.F. Wonder, Canada-India nuclear cooperation: A rebuttal	8 (1979) 187
Moscowitz, J., <i>see</i> Robinson, D.M.,	14 (1985) 189
Moss, S., Investment and innovation over the long wave	15 (1986) 211
Motigny, P., <i>see</i> Meyer-Krahmer, F.,	22 (1993) 106
Mowery, D.C. and N. Rosenberg, The influence of market demand upon innovation: A critical review of some recent empirical studies	8 (1979) 102
Mowery, D.C., Innovation, market structure and government policy in the American semiconductor industry: A survey	12 (1983) 183
Mowery, D.C., Collaborative ventures between U.S. and foreign manufacturing firms	18 (1989) 19
Mowery, D.C., The U.S. national innovation system: Origins and prospects for change	21 (1992) 125
Mowery, D.C. and N. Rosenberg, The influence of market demand upon innovation: A critical review of some recent empirical studies	22 (1993) 107
Mowery, D.C., <i>see</i> Khazam, J.,	23 (1994) 89
Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry	25 (1997) 947
Mowery, D.C., <i>see</i> Ham, R.M.,	26 (1998) 661
Mowery, D.C., J.E. Oxley and B-S. Silverman, Technological overlap and interfirm cooperation: implications for the resource-based view of the firm	27 (1998) 507
Mowery, D.C., The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy	27 (1998) 639
Mueller, R.A.E., <i>see</i> Pray, C.E.,	20 (1991) 315
Mukerji, S., <i>see</i> Bindon, G.,	7 (1978) 220
Mukerji, S., <i>see</i> Bindon, G.,	8 (1979) 191
Müller-Hill, B., <i>see</i> Herbertz, H.,	24 (1995) 959
Müller, J., Policy options for government funding of advanced technology – the case of international collaboration in the European Telecommunication Satellite Programme	18 (1989) 33
Müller, K. and R. Nejedly, The regional distribution of research and development (as note)	1 (1971/72) 320
Müller, W., <i>see</i> Schott, B.,	4 (1975) 88
Murakami, N., <i>see</i> Odagiri, H.,	21 (1992) 335
Murray, G.C. and J. Lott, Have UK venture capitalists a bias against investment in new technology-based firms?	24 (1995) 283
Murray, G.C. and R. Marriott, Why has the investment performance of technology-specialist, European venture capital funds been so poor?	27 (1998) 947
Mutinelli, M. and L. Piscitello, The entry mode choice of MNEs: an evolutionary approach	27 (1998) 491
Myers, G., Conflicting perceptions of plans for an academic center	20 (1991) 217
Nagamachi, N., <i>see</i> Liker, J.K.,	25 (1997) 59
Nakamura, Y., <i>see</i> Odagiri, H.,	26 (1998) 191
Napolitano, G., Industrial research and sources of innovation: A cross-industry analysis of Italian manufacturing firms	20 (1991) 171
Napolitano, G., <i>see</i> De Marchi, M.,	25 (1997) 13
Narandren, P., <i>see</i> Coombs, R.,	25 (1997) 403
Narayanan, K., Technology acquisition, de-regulation and competitiveness: a study of Indian automobile industry	27 (1998) 215
Narin, F., E. Noma and R. Perry, Patents as indicators of corporate technological strength	16 (1987) 143
Narin, F. and R.P. Rozek, Bibliometric analysis of U.S. Pharmaceutical industry research performance	17 (1988) 139
Narin, F., <i>see</i> Frame, J.D.,	17 (1988) 203
Narin, F., <i>see</i> Davidson Frame, J.,	19 (1990) 447
Narin, F., <i>see</i> Albert, M.B.,	20 (1991) 251
Narin, F. and D. Olivastro, Status report: Linkage between technology and science	21 (1992) 237
Narin, F., E. Noma and R. Perry, Patents as indicators of corporate technological strength	22 (1993) 108
Narin, F. and A. Breitzman, Inventive productivity	24 (1995) 507
Narin, F., K.S. Hamilton and D. Olivastro, The increasing linkage between U.S. technology and public science	26 (1998) 317
Näslund, B. and B. Sellstedt, A note on the implementation and use of models for R & D planning	2 (1973/74) 72
Nazli Wasti, S., <i>see</i> Liker, J.K.,	25 (1997) 59
Nederhof, A.J.. <i>see</i> Rip, A.,	15 (1986) 253

Nederhof, A.J., Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the Netherlands	19 (1990) 379
Nederhof, A.J. and A.F.J. Van Raan, A bibliometric analysis of six economics research groups: A comparison with peer review	22 (1993) 353
Nejedly, R., <i>see</i> Müller, K.	1 (1971/72) 320
Nelson, J.P., <i>see</i> Feller, I.	28 (1999) 805
Nelson, R.R. and S.G. Winter, In search of useful theory of innovation	6 (1977) 36
Nelson, R.R., U.S. technological leadership: Where did it come from and where did it go?	19 (1990) 117
Nelson, R.R., Capitalism as an engine of progress	19 (1990) 193
Nelson, R.R. and S.G. Winter, In search of useful theory of innovation	22 (1993) 108
Nelson, R.R., <i>see</i> Rosenberg, N.	23 (1994) 323
Nelson, R.R., <i>see</i> Klevorick, A.K.	24 (1995) 185
Nelson, R.R., <i>see</i> Mazzoleni, R.	27 (1998) 273
Nerlinger, E., <i>see</i> Licht, G.	26 (1998) 1005
Nightingale, P., A cognitive model of innovation	27 (1998) 689
Nijhuis, F.J.N., <i>see</i> Spangenberg, J.F.A.	19 (1990) 239
Niosi, J., The Internationalization of Industrial R & D	28 (1999) 107
Niosi, J. and B. Godin, Canadian R & D abroad management practices	28 (1999) 215
Niwa, F., <i>see</i> Ahrens, H.J.	2 (1973/74) 94
Nobel, R., <i>see</i> Håkanson, L.	22 (1993) 373
Nobel, R., <i>see</i> Håkanson, L.	22 (1993) 397
Nobeoka, K., <i>see</i> Cusumano, M.A.	21 (1992) 265
Nobeoka, K., <i>see</i> Baba, Y.	26 (1998) 643
Noma, E., <i>see</i> Narin, F.	16 (1987) 143
Noma, E., <i>see</i> Narin, F.	22 (1993) 108
Nooteboom, B., Innovation and inter-firm linkages: new implications for policy	28 (1999) 791
Nowotny, H. and H. Hirsch, The consequences of dissent: Sociological reflections on the controversy of the low dose effect	9 (1980) 278
Nowotny, H. and H. Hirsch, The consequences of dissent: Sociological reflections on the controversy of the low-dose effects	22 (1993) 108
Noyons, E.C.M., A.F.J. van Raan, H. Grupp and U. Schmoch, Exploring the science and technology interface: inventor-author relations in laser medicine research	23 (1994) 443
Noyons, E.C.M., M. Luwel and H.F. Moed, Assessment of Flemish R & D in the field of information technology. A bibliometric evaluation based on publication and patent data, combined with OECD research input statistics	27 (1998) 285
Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry	25 (1997) 133
Odagiri, H., Research activity, output growth, and productivity increase in Japanese manufacturing industries	14 (1985) 117
Odagiri, H. and H. Iwata, The impact of R & D on productivity increase in Japanese manufacturing companies	15 (1986) 13
Odagiri, H. and N. Murakami, Private and quasi-social rates of return on pharmaceutical R & D in Japan	21 (1992) 335
Odagiri, H. and H. Yasuda, The determinants of overseas R & D by Japanese firms: an empirical study at the industry and company levels	25 (1997) 1059
Odagiri, H., Y. Nakamura and M. Shibuya, Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan	26 (1998) 191
Ogawa, S., Does sticky information affect the locus of innovation? Evidence from the Japanese convenience-store industry	26 (1998) 777
Olds, B., <i>see</i> Van Hulst, N.	22 (1993) 455
Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Service in New York	25 (1997) 215
Olivastro, D., <i>see</i> Narin, F.	21 (1992) 237
Olivastro, D., <i>see</i> Narin, F.	26 (1998) 317
Om, K., <i>see</i> Lee, M.,	25 (1997) 805
Ornala, E., Nordic experiences of the evaluation of technical research and development	18 (1989) 333
Orsenigo, L., <i>see</i> Malerba, F.	25 (1997) 451
Orsenigo, L., <i>see</i> Malerba, F.	28 (1999) 643
Oshima, K., Technological innovation and industrial research in Japan	13 (1984) 285
Oskarsson, C., <i>see</i> Jacobsson, S.	24 (1995) 127
Oskarsson, C., <i>see</i> Jacobsson, S.	25 (1997) 573
Otaki, E., <i>see</i> Yamada, K..	1 (1971/72) 352

Oxley, J.E., <i>see</i> Mowery, D.C.,	27 (1998) 507
Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria	25 (1997) 1081
Pachico, D., J.K. Lynam and P.G. Jones, The distribution of benefits from technical change among classes of consumers and producers: An ex ante analysis of beans in Brazil	16 (1987) 279
Padmore, T., H. Schuetze and H. Gibson, Modeling systems of innovation: An enterprise-centered view	26 (1998) 605
Padmore, T. and H. Gibson, Modeling systems of innovation: II. A framework for industrial cluster analysis in regions	26 (1998) 625
Palda, K.S. and B. Pazderka, International comparisons of R & D effort: The case of the Canadian pharmaceutical industry	11 (1982) 247
Palda, K.S., Technological intensity: Concept and measurement	15 (1986) 187
Palladino, P., <i>see</i> Thirtle, C..	26 (1998) 557
Palombarini, S., <i>see</i> Amable, B..	27 (1998) 655
Papaconstantinou, G., N. Sakurai and A. Wyckoff, Domestic and international product-embodied R & D diffusion	27 (1998) 301
Papanastassiou, M., <i>see</i> Pearce, R.,	28 (1999) 23
Papon, P., Research planning in French science policy: an assessment	2 (1973/74) 226
Papon, P., The state and technological competition in France or Colbertism in the 20 th century	4 (1975) 214
Papon, P., Centres of decision in French science policy: The contrasting influences of scientific experts and administrators	8 (1979) 384
Papon, P., Centers of decision in French science policy: The contrasting influences of scientific experts and administrators	22 (1993) 109
Papon, P., Research institutions in France: between the Republic of science and the nation-state in crisis	27 (1998) 771
Pardey, P.G., B. Craig and M.L. Hallaway, U.S. agricultural research deflators 1890-1985	18 (1989) 289
Park, W.G., <i>see</i> Ginarte, J.C..	26 (1998) 283
Paschen, H. and K. Gresser, Some remarks and proposals concerning the planning and performance of technology assessment studies	2 (1973/74) 306
Patel, P. and K. Pavitt, Is Western Europe losing the technological race?	16 (1987) 59
Patel, P. and K. Pavitt, The continuing, widespread (and neglected) importance of improvements in mechanical technologies	23 (1994) 533
Patel, P. and K. Pavitt, The technological competencies of the world's largest firms: complex and path-dependent, but not much variety	26 (1998) 141
Patel, P. and M. Vega, Patterns of internationalisation of corporate technology: location vs. home country advantages	28 (1999) 145
Pavitt, K., Technology in Europe's future	1 (1971/72) 210
Pavitt, K. and W. Walker, Government politics towards industrial innovation: a review	5 (1976) 11
Pavitt, K., R & D patenting and innovative activities: A statistical exploration	11 (1982) 33
Pavitt, K., Sectoral patterns of technical change: Towards a taxonomy and a theory	13 (1984) 343
Pavitt, K., <i>see</i> Patel, P..	16 (1987) 59
Pavitt, K., <i>see</i> Robson, M.,	17 (1988) 1
Pavitt, K., <i>see</i> Freeman, C.,	18 (1989) 253
Pavitt, K., What makes basic research economically useful?	20 (1991) 109
Pavitt, K. and W. Walker, Government policies towards industrial innovation: a review	22 (1993) 114
Pavitt, K., <i>see</i> Patel, P.,	23 (1994) 533
Pavitt, K., <i>see</i> Patel, P.,	26 (1998) 141
Pavitt, K., The inevitable limits of EU R & D funding	27 (1998) 559
Pavitt, K., The social shaping of the national science base	27 (1998) 793
Pazderka, B., <i>see</i> Palda, K.S.,	11 (1982) 247
Peacock, T., <i>see</i> Irvine, J.,	16 (1987) 213
Pearce, R. and M. Papanastassiou, Overseas R & D and the strategic evolution of MNEs: evidence from laboratories in the UK	28 (1999) 23
Pearce, R.D., Decentralised R & D and strategic competitiveness: globalised approaches to generation and use of technology in multinational enterprises (MNEs)	28 (1999) 157
Pearson, A.W., <i>see</i> Hutcheson, P.,	25 (1997) 25
Peck, M.J. and A. Goto, Technology and economic growth: The case of Japan	10 (1981) 222
Peck, M.J., Joint R & D: The case of microelectronics and Computer Technology Corporation	15 (1986) 219
Penan, H., R & D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies	25 (1997) 337
Pennings, J.M., <i>see</i> Harianto, F.,	23 (1994) 293
Perani, G., <i>see</i> Evangelista, R.,	26 (1998) 521

Peres, W., <i>see</i> Alcorta, L.,	26 (1998) 857
Pérez-Castrillo, J.D., <i>see</i> Macho-Stadler, I.,	25 (1997) 43
Perry, R., <i>see</i> Narin, F.,	16 (1987) 143
Perry, R., <i>see</i> Narin, F.,	22 (1993) 108
Persson, O., <i>see</i> Höglund, L.,	16 (1987) 29
Peschke, A., <i>see</i> Grande, E.,	28 (1999) 43
Peters, D.H., <i>see</i> Roberts, E.B.,	10 (1981) 108
Peters, H.P.F. and A.F.J. Van Raan, Co-word based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling	22 (1993) 23
Peters, H.P.F. and A.F.J. Van Raan, Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and multidimensional scaling	22 (1993) 47
Peters, L., P. Groenewegen and N. Fiebelkorn, A comparison of networks between industry and public sector research in materials technology and biotechnology	27 (1998) 255
Peterson, J., Assessing the performance of European collaborative R & D policy: The case of Eureka	22 (1993) 243
Philipson, J., <i>see</i> Jacobsson, S.,	25 (1997) 573
Phillimore, A.J., University research performance indicators in practice: The University Grants Committee's evaluation of British universities, 1985-1986	18 (1989) 255
Pianta, M., <i>see</i> Archibugi, D.,	21 (1992) 79
Pianta, M., <i>see</i> Vivarelli, M.,	25 (1997) 1013
Pickney, D.L., <i>see</i> Allen, T.J.,	12 (1983) 199
Pielke Jr., R.A. and M.M. Betsill, Policy for science for policy: A commentary on Lambright on ozone depletion and acid rain	26 (1998) 157
Piergiovanni, R., <i>see</i> Santarelli, E.,	25 (1997) 689
Piesse, J., <i>see</i> Thirtle, C.,	26 (1998) 557
Pirela, A., R. Rengifo, A. Mercado and R. Arvanitis, Technological learning and entrepreneurial behavior: A taxonomy of the chemical industry in Venezuela	22 (1993) 431
Pisano, G.P., The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry	20 (1991) 237
Pisano, G.P., Learning-before-doing in the development of new process technology.	25 (1997) 1097
Piscitello, L., <i>see</i> Mutinelli, M.,	27 (1998) 491
Pistorius, C.W.I. and J.M. Utterback, Multi-mode interaction among technologies	26 (1998) 67
Polkinghorne, J.C., Particle physics - an alternative view	6 (1977) 412
Polo-Redondo, Y., <i>see</i> Jimenez-Martinez, J.,	26 (1998) 811
Porter, A.L., <i>see</i> Rossini, F.A.,	8 (1979) 70
Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks.	25 (1997) 933
Poznánski, K., A study of technical innovation in Polish industry	9 (1980) 232
Poznanski, K., A study of technical innovation in Polish Industry	22 (1993) 109
Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao, Private research and public benefit: The private seed industry for sorghum and pearl millet in India	20 (1991) 315
Prencipe, A., Technological competencies and product's evolutionary dynamics: a case study from the aero-engine industry	25 (1997) 1261
Prevezor, M., <i>see</i> Swann, P.,	25 (1997) 1139
Prins, A.A.M., Behind the scenes of performance: Performance, practice and management in medical research	19 (1990) 517
Quelin, B., <i>see</i> Garrette, B.,	23 (1994) 395
Quéré, M., Basic research inside the firm: lessons from an in-depth case study	23 (1994) 413
Quintas, P. and K. Guy, Collaborative, pre-competitive R & D and the firm	24 (1995) 325
Rabeharisoa, V., <i>see</i> Callon, M.,	21 (1992) 215
Radošević, S. and L. Auriol, Patterns of restructuring in research, development and innovation activities in central and eastern European countries: an analysis based on S & T indicators	28 (1999) 351
Rajan, J.V., <i>see</i> Joshi, S.S.,	3 (1974/75) 292
Rajan, J.V., N.D. Seth, S.K. Subramanian, A.K. Chakrabarti and A.H. Rubenstein, Transfer of indigenous technology - some Indian cases	10 (1981) 172
Rajan, J.V., <i>see</i> Lachke, A.H.,	17 (1988) 235
Ranga Chand, U.K., Characteristics of research and development performing firms in Canadian manufacturing	11 (1982) 193

Rao, P.P., <i>see</i> Pray, C.E.,	20 (1991) 315
Rapiti, F., <i>see</i> Evangelista, R.,	26 (1998) 521
Rappa, M.A., <i>see</i> Debackere, K.,	23 (1994) 425
Rappa, M.A., <i>see</i> Debackere, K.,	24 (1995) 137
Rappa, M.A., <i>see</i> Clarysse, B.,	25 (1997) 671
Rappert, B., A. Webster and D. Charles, Making sense of diversity and reluctance: academic-industrial relations and intellectual property	28 (1999) 871
Ray, G.F., Innovation in industry: the state and results of recent economic research in western European countries except F.R. Germany	3 (1974/75) 338
Ray, G.F., Research policy and industrial material	8 (1979) 80
Ray, G.F., Full circle: The diffusion of technology	18 (1989) 1
Reddy, N.M. and L. Zhao, International technology transfer: A review	19 (1990) 285
Reddy, N.M., <i>see</i> Aram, J.D.,	21 (1992) 409
Reddy, N.M., <i>see</i> Lynn, L.H.,	25 (1997) 91
Reekie, W.D., Patent data as a guide to industrial activity	2 (1973/74) 246
Reekie, W.D., An assessment of the benefits of the diffusion of an innovation	11 (1982) 261
Reger, G., <i>see</i> Gerybadze, A.,	28 (1999) 251
Reger, G., <i>see</i> Meyer-Krahmer, F.,	28 (1999) 749
Rehn, D., <i>see</i> Simon, D.F.,	16 (1987) 259
Reinberger, G., <i>see</i> Utterback, J.M.,	17 (1988) 15
Reijnen, J.O.N., <i>see</i> Kleinknecht, A.,	20 (1991) 579
Reijnen, J.O.N., <i>see</i> Kleinknecht, A.,	21 (1992) 347
Reiss, T., <i>see</i> Frenkel, A.,	23 (1994) 281
Reitberger, G., <i>see</i> Utterback, J.M.,	22 (1993) 113
Remy, J.C., <i>see</i> Courtial, J.P.,	17 (1988) 225
Rengifo, R., <i>see</i> Pirela, A.,	22 (1993) 431
Reppy, J., Defense department payment for company financed R & D	6 (1977) 396
Ribeiro, S., <i>see</i> Pray, C.E.,	20 (1991) 315
Richards, A., <i>see</i> Coombs, R.,	25 (1997) 403
Ridout, M.S., <i>see</i> Doyle, C.J.,	14 (1985) 109
Riggs, W. and E. von Hippel, Incentives to innovate and the sources of innovation: the case of scientific instruments	23 (1994) 459
Rigter, H., Evaluation of performance of health research in the Netherlands	15 (1986) 33
Rinia, E.J., Th.N. van Leeuwen, H.G. van Vuren and A.F.S. van Raan, Comparative analysis of a set of bibliometric indicators and central peer review criteria. Evaluation of condensed matter physics in the Netherlands	27 (1998) 95
Rip, A., A cognitive approach to science policy	10 (1981) 294
Rip, A. and A.J. Nederhof, Between dirigism and laissez-faire: Effects of implementing the science policy priority for biotechnology in the Netherlands	15 (1986) 253
Rip, A., <i>see</i> van der Meulen, B.,	27 (1998) 757
Robbins, M.D. and J.G. Milliken, Government policies for technological innovation: criteria for an experimental approach	6 (1977) 214
Robbins, M.D. and J.G. Milliken, Reply to Dr. Colton's rejoinder	6 (1977) 252
Roberts, E., <i>see</i> Utterback, J.M.,	17 (1988) 15
Roberts, E., <i>see</i> Utterback, J.M.,	22 (1993) 113
Roberts, E.B. and D.H. Peters, Commercial innovations from university faculty	10 (1981) 108
Roberts, E.B. and O. Hauptman, The process of technology transfer to the new biomedical and pharmaceutical firm	15 (1986) 107
Roberts, E.B., The technological base of the new enterprise	20 (1991) 283
Roberts, J.H., <i>see</i> Midgley, D.,	21 (1992) 533
Roberts, R., Managing innovation: The pursuit of competitive advantage and the design of innovation intense environments	27 (1998) 159
Robertson, A. and M. Frost, Duopoly in the scientific instrument industry: The milk analyser case	7 (1978) 292
Robertson, A.B., <i>see</i> Rothwell, R.,	2 (1973/74) 204
Robertson, A.B., <i>see</i> Rothwell, R.,	3 (1974/75) 258
Robertson, A.B., <i>see</i> Rothwell, R.,	22 (1993) 110
Robertson, P.L., <i>see</i> Langlois, R.N.,	21 (1992) 297
Robertson, P.L. and R.N. Langlois, Innovation, networks and vertical integration	24 (1995) 543
Robinson, D.M., J. Moscowitz and C.J.M. Lenfant, From the gene to the general practitioner: A paradigm of research	14 (1985) 189
Robson, M., J. Townsend and K. Pavitt, Sectoral patterns of production and use of innovations in the UK: 1945-1983	17 (1988) 1

Roering, K., <i>see</i> Bozeman, B.,	7 (1978)	384
Roessner, J.D., The local government market as a stimulus to industrial innovation	8 (1979)	340
Roessner, J.D., Commercializing solar technology: The government role	13 (1984)	235
Roessner, J.D., Evaluation of government innovation programs: Introduction	18 (1989)	309
Roessner, J.D., Evaluating government innovation programs: Lessons from the U.S. experience	18 (1989)	343
Roessner, J.D., <i>see</i> Shapira, P.,	25 (1997)	181
Roessner, J.D., <i>see</i> Shapira, P.,	25 (1997)	185
Romeo, A., <i>see</i> Mansfield, E.,	12 (1983)	105
Ronayne, J., <i>see</i> Drath, L.,	4 (1975)	56
Rosenberg, N., <i>see</i> Mowery, D.C.,	8 (1979)	102
Rosenberg, N., Why do firms do basic research (with their own money)?	19 (1990)	165
Rosenberg, N., Scientific instrumentation and university research	21 (1992)	381
Rosenberg, N., <i>see</i> Mowery, D.C.,	22 (1993)	107
Rosenberg, N. and R.R. Nelson, American universities and technical advance in industry	23 (1994)	323
Rosenbloom, R.S. and W.J. Abernathy, The climate for innovation in industry: the role of management attitudes and practices in consumer electronics	11 (1982)	209
Rosenbloom, R.S., <i>see</i> Christensen, C.M.,	24 (1995)	233
Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration	25 (1997)	247
Ross, H.H., W.S. Lyon and W.D. Shults, Setting research priorities	8 (1979)	260
Rossini, F.A. and A.L. Porter, Frameworks for integrating interdisciplinary research	8 (1979)	70
Rothman, H., <i>see</i> Healy, P.,	15 (1986)	233
Rothwell, R., Nucleonic thickness gauges – a SAPPHO pair	2 (1973/74)	144
Rothwell, R. and A.B. Robertson, The role of communications in technological innovation	2 (1973/74)	204
Rothwell, R., The 'Hungarian SAPPHO': some comments and comparisons	3 (1974/75)	30
Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend, SAPPHO updated – project SAPPHO phase II	3 (1974/75)	258
Rothwell, R., <i>see</i> Catling, H.,	6 (1977)	164
Rothwell, R., Non-price factors in the export competitiveness of agricultural engineering products	10 (1981)	260
Rothwell, R., Venture finance, small firms and public policy in the UK	14 (1985)	253
Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend, SAPPHO updated – project SAPPHO phase II	22 (1993)	110
Rozek, R.P., <i>see</i> Narin, F.,	17 (1988)	139
Rubenstein, A.H., <i>see</i> Köhler, B.M.,	2 (1973/74)	160
Rubenstein, A.H., <i>see</i> Schlie, T.W.,	3 (1974/75)	98
Rubenstein, A.H., C.F. Douds, H. Geschka, T. Kawase, J.P. Miller, R. Saintpaul and D. Watkins, Management perceptions of government incentives to technological innovation in England, France, West Germany and Japan	6 (1977)	324
Rubenstein, A.H., <i>see</i> Lee, J.,	9 (1980)	174
Rubenstein, A.H., <i>see</i> Rajan, J.V.,	10 (1981)	172
Rubenstein, A.H., <i>see</i> Zhou, L.Y.,	15 (1986)	49
Ruefli, T.W., <i>see</i> Dowling, M.J.,	21 (1992)	63
Rupp, A., The RKW: a new approach towards technology transfer. Methods for the promotion of innovation in small- and medium-sized companies	5 (1976)	398
Rush, H., <i>see</i> Bessant, J.,	24 (1995)	97
Russo, M., Technical change and the industrial district: The role of interfirm relations in the growth and transformation of the ceramic tile industry in Italy	14 (1985)	329
Ruttan, V.W., Technical and institutional transfer in agricultural development	4 (1975)	350
Ruttan, V.W., Toward a global agricultural research system: A personal view	15 (1986)	307
Ryan, J.A., <i>see</i> McKeon, R.,	18 (1989)	379
Rycroft, R.W. and D.E. Kash, Complex technology and community: implications for policy and social science.	23 (1994)	613
Sabel, C.F., A measure of federalism: assessing manufacturing technology centers	25 (1997)	281
Sahal, D., Alternative conceptions of technology	10 (1981)	2
Sahal, D., The farm factor and the nature of technological innovation	10 (1981)	368
Sahal, D., Technological guideposts and innovation avenues	14 (1985)	61
Sahal, D., Technological guideposts and innovation avenues	22 (1993)	110
Saintpaul, R., <i>see</i> Rubenstein, A.H.,	6 (1977)	324
Sakakibara, M., Evaluating government-sponsored R & D consortia in Japan: who benefits and how?	26 (1998)	447

Sakakura, S. and M. Kobayashi, R & D management in Japanese research institutes	20 (1991) 531
Sakurai, N., <i>see</i> Papaconstantinou, G.,	27 (1998) 301
Salles-Filho, S., <i>see</i> Possas, M.L.,	25 (1997) 933
Sanderson, S., <i>see</i> Uzumeri, M.,	24 (1995) 583
Sanderson, S. and M. Uzumeri, Managing product families: The case of the Sony Walkman	24 (1995) 761
Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: The Italian experience	25 (1997) 689
Sanz, E., <i>see</i> Gómez, I.,	19 (1990) 457
Saqib, M., <i>see</i> Kumar, N.,	25 (1997) 713
Sasaki, T., <i>see</i> Aldrich, H.E.,	24 (1995) 301
Saul, S.B., MRCA; Comment on the article by W.B. Walker	3 (1974/75) 373
Saviotti, P., <i>see</i> Gibbons, M.,	11 (1982) 289
Saviotti, P.P. and J.S. Metcalfe, A theoretical approach to the construction of technological output indicators	13 (1984) 141
Saviotti, P.P., On the dynamics of appropriability, of tacit and of codified knowledge	26 (1998) 843
Saviotti, P.P., <i>see</i> Frenken, K.,	28 (1999) 469
Saviotti, P.P. Information, variety and entropy in technoeconomic development	17 (1988) 89
Savoy, A., <i>see</i> Delapierre, M.,	26 (1998) 989
Saxenian, A., The origins and dynamics of production networks in Silicon Valley	20 (1991) 423
Schakenraad, J., <i>see</i> Hagedoorn, J.,	21 (1992) 163
Scherer, F.M., Inter-industry technology flows in the United States	11 (1982) 227
Scherer, F.M., Inter-industry technology flows in the United-States	22 (1993) 111
Scherer, F.M. and K. Huh, Top managers' education and R & D investment	21 (1992) 507
Schiffel, D. and C. Kitti, Rates of invention: International patent comparisons	7 (1978) 324
Schiffel, D.D., <i>see</i> Bean, A.S.,	4 (1975) 380
Schiffel, D.D., <i>see</i> Windus, M.L.,	5 (1976) 180
Schimank, U., The contribution of university research to the technological innovation of the German economy: Societal autodynamic and political guidance	17 (1988) 329
Schimank, U., <i>see</i> Mayntz, R.,	27 (1998) 747
Schlie, T.W. and A.H. Rubenstein, Some aspects of regional-national scientific relationships in East Africa: a summary	3 (1974/75) 98
Schmoch, U., <i>see</i> Noyons, E.C.M.,	23 (1994) 443
Schmoch, U., <i>see</i> Meyer-Krahmer, F.,	27 (1998) 835
Schmoch, U., <i>see</i> Grupp, H.,	28 (1999) 377
Schnee, J.D., R & D strategy in the U.S. pharmaceutical industry	8 (1979) 364
Schnee, J.E., Government programs and the growth of high technology industries	7 (1978) 2
Schott, B. and K. von Grebmer, R & D, innovation and micro-economic growth; a case study	2 (1973/74) 380
Schott, B. and W. Müller, Process innovations and improvements as a determinant of the competitive position in the international plastic market	4 (1975) 88
Schrader, S., Informal technology transfer between firms: Cooperation through information trading	20 (1991) 153
Schrader, S., <i>see</i> Tripsas, M.,	24 (1995) 367
Schuetze, H., <i>see</i> Padmore, T.,	26 (1998) 605
Schwarz, M., European policies on space science and technology 1960–1978	8 (1979) 204
Schwarz, S., Notes on conferencemanship: towards a model of homo audiens	1 (1971/72) 404
Schwarzkopf, A., <i>see</i> Achilladelis, B.,	16 (1987) 175
Schwarzkopf, A., <i>see</i> Achilladelis, B.,	19 (1990) 1
Scott, A.J., The aerospace-electronics industrial complex of Southern California: The formative years 1940–1960	20 (1991) 439
Scott, A.J., <i>see</i> De Vet, J.M.,	21 (1992) 145
Sedaitis, J.B., <i>see</i> Hagedoorn, J.,	27 (1998) 177
Seguin-Dulude, L., <i>see</i> Amesse, F.,	20 (1991) 13
Seligman, N.G., <i>see</i> Spharim, I.,	14 (1985) 53
Sellsedt, B., <i>see</i> Näslund, B.,	2 (1973/74) 72
Senker, J., Evaluating the funding of strategic science: Some lessons from British experience	20 (1991) 29
Senker, J., <i>see</i> Faulkner, W.,	23 (1994) 673
Serapio Jr., M.G. and D.H. Dalton, Globalization of industrial R & D: an examination of foreign direct investments in R & D in the United States	28 (1999) 303
Serin, G., <i>see</i> Hansen, P.A.,	22 (1993) 181
Seth, N.D., <i>see</i> Rajan, J.V.,	10 (1981) 172
Sewell, G., <i>see</i> Chen, C.F.,	25 (1997) 759
Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue	25 (1997) 181

Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs	25 (1997) 185
Sharp, M., <i>see</i> Balmer, B.,	22 (1993) 463
Sharp, M., Competitiveness and cohesion – are the two compatible?	27 (1998) 569
Shenhar, A., <i>see</i> Dvir, D.,	27 (1998) 915
Shenhar, A.J. and D. Dvir, Towards a typological theory of project management	25 (1997) 607
Shibuya, M., <i>see</i> Odagiri, H.,	26 (1998) 191
Shrivastava, P., <i>see</i> Souder, W.E.,	14 (1985) 151
Shults, W.D., <i>see</i> Ross, H.H.,	8 (1979) 260
Sigogneau, A., <i>see</i> Zitt, M.,	28 (1999) 545
Sikka, P., Analysis of in-house R & D centres of innovative firms in India	27 (1998) 429
Silverman, B-S., <i>see</i> Mowery, D.C.,	27 (1998) 507
Simon, D.F. and D. Rehn, Innovation in China's semiconductor components industry: The case of Shanghai	16 (1987) 259
Sims, L., <i>see</i> Feller, I.,	16 (1987) 315
Sinclair, C., The incorporation of health and welfare risks into technological forecasts	1 (1971/72) 40
Sirbu Jr., M.A., Government aid for the development of innovative technology: Lessons from the French	7 (1978) 176
Sirbu, M.A., <i>see</i> Allen, Th.J.,	7 (1978) 124
Sirilli, G., The innovative activities of researchers in Italian industry	13 (1984) 63
Sirilli, G., The researcher in Italy: A profession in search of recognition	15 (1986) 329
Sirilli, G., Patents and inventors: An empirical study	16 (1987) 157
Sirilli, G., The innovative activities of researchers in Italian industry	22 (1993) 111
Sirilli, G. and R. Evangelista, Technological innovation in services and manufacturing: results from Italian surveys	27 (1998) 881
Sjölander, S., <i>see</i> Granstrand, O.,	19 (1990) 35
Sjölander, S., <i>see</i> Granstrand, O.,	22 (1993) 413
Slama, J., <i>see</i> Amann, R.,	5 (1976) 302
Slaughter, S., Innovation and learning during implementation: a comparison of user and manufacturer innovations	22 (1993) 81
Sleuwaegen, L., <i>see</i> Holemans, B.,	17 (1988) 375
Slusher, E.A., <i>see</i> Bozeman, B.,	7 (1978) 384
Smart, C.C. and P.K. Marstrand, Antibiotic technology in agriculture	1 (1971/72) 364
Smith, I.J., <i>see</i> Tether, B.S.,	26 (1998) 19
Smith, K., Public support for civil R & D in the UK: Limitations of recent policy debate	18 (1989) 99
Smith, S.L., <i>see</i> Lawton Smith, H.,	20 (1991) 457
Sobrero, M., <i>see</i> Tripasas, M.,	24 (1995) 367
Soete, L., The impact of technological innovation on international trade patterns: The evidence reconsidered	16 (1987) 101
Solleiro, J.L., <i>see</i> Waissbluth, M.,	17 (1988) 341
Son, B., <i>see</i> Lee, M.,	25 (1997) 805
Soto, M.A., <i>see</i> Gluck, M.E.,	16 (1987) 327
Souder, W.E. and P. Shrivastava, Towards a scale for measuring technology in new product innovations	14 (1985) 151
Spaa, J.H., The economic effects of innovation: Some calculations for The Netherlands	9 (1980) 54
Spangenberg, J.F.A., R. Starmans, Y.W. Bally, B. Breemhaar, F.J.N. Nijhuis and C.A.F. van Dorp, Prediction of scientific performance in clinical medicine	19 (1990) 239
Spharim, I. and N.G. Seligman, A graphical method for relating multiple socio-economic goals to research and development in agriculture	14 (1985) 53
Spiller, P.T. and M. Teubal, Analysis of R & D failure	6 (1977) 254
Spiller, P.T. and M. Teubal, Analysis of R & D failure	22 (1993) 113
Spital, F.C., An analysis of the role of users in the total R & D portfolios of scientific instrument firms	8 (1979) 284
Srinivasan, M.C., <i>see</i> Lachke, A.H.,	17 (1988) 235
Stahl, H., <i>see</i> Beise, M.,	28 (1999) 397
Stähle, B., <i>see</i> Luukkonen, T.,	19 (1990) 357
Starmans, R., <i>see</i> Spangenberg, J.F.A.,	19 (1990) 239
Stead, H., The costs of technological innovation	5 (1976) 2
Steck, R., R & D coordination in industry and university	3 (1974/75) 360
Stein, B.R., Public accountability and the project-grant mechanism	2 (1973/74) 2
Steinmueller, E., <i>see</i> Teubal, M.,	11 (1982) 271
Sterlacchini, A., Do innovative activities matter to small firms in non-R & D-intensive industries? An application to export performance	28 (1999) 817
Sternberg, R.G., Government R & D expenditure and space: empirical evidence from five industrialized countries	25 (1997) 741
Stewart, J., Models of priority-setting for public sector research	24 (1995) 115

Stoneman, P., The use of a levy/grant system as an alternative to tax based incentives to R & D	20 (1991) 195
Stoneman, R. and G. Battisti, Fiscal incentives to consumer innovation: the use of unleaded petrol in Europe	27 (1998) 187
Storey, D.J. and B.S. Tether, New technology-based firms in the European union: an introduction	26 (1998) 933
Storey, D.J., <i>see</i> Tether, B.S.,	26 (1998) 947
Storey, D.J. and B.S. Tether, Public policy measures to support new technology-based firms in the European Union	26 (1998) 1037
Storper, M. and B. Harrison, Flexibility, hierarchy and regional development: The changing structure of industrial production systems and their forms of governance in the 1990s	20 (1991) 407
Storper, M., Regional technology coalitions. An essential dimension of national technology policy	24 (1995) 895
Stubbs, P.C., <i>see</i> Gibbons, M.,	11 (1982) 289
Studer, K.E., <i>see</i> Burns, E.M.,	4 (1975) 28
Studer, K.E., <i>see</i> Burns, E.M.,	5 (1976) 201
Suárez González, I., <i>see</i> Galende Del Canto, J.,	28 (1999) 889
Suárez, F., <i>see</i> Utterback, J.M.,	22 (1993) 1
Subramanian, S.K., <i>see</i> Joshi, S.S.,	3 (1974/75) 292
Subramanian, S.K., <i>see</i> Rajan, J.V.,	10 (1981) 172
Swann, P. and M. Prevez, A comparison of the dynamics of industrial clustering in computing and biotechnology	25 (1997) 1139
Swann, P., <i>see</i> Baptista, R.,	27 (1998) 525
Sweeney, D.J., <i>see</i> Baker, N.R.,	7 (1978) 150
Sweet, S., <i>see</i> Hicks, D.,	23 (1994) 375
Switzer, L., <i>see</i> Mansfield, E.,	12 (1983) 105
Switzer, L., <i>see</i> Mansfield, E.,	14 (1985) 97
Szakasits, G.D., The adoption of the SAPPHO method in the Hungarian electronics industry	3 (1974/75) 18
Taccine, P., <i>see</i> De Marchi, M.,	25 (1997) 13
Taggart, J.H., <i>see</i> Berry, M.M.J.,	26 (1998) 883
Takai, S., <i>see</i> Baba, Y.,	24 (1995) 473
Tambe, S.A., <i>see</i> Lachke, A.H.,	17 (1988) 235
Tanaka, M., Japanese-style evaluation systems for R & D projects: The MITI experience	18 (1989) 361
Tanaka, M., Japanese-style evaluation systems for R & D projects: The MITI experience	22 (1993) 112
Tanaka, S., <i>see</i> Fransman, M.,	24 (1995) 13
Tanaka, Y. and R. Hirasawa, Features of policy making processes in Japan's Council for Science and Technology	25 (1997) 999
Tassev, G., The role of government in supporting measurement standards for high-technology industries	11 (1982) 311
Tassev, G., The technology policy experiment as policy research tool	14 (1985) 39
Tassev, G., The functions of technology infrastructure in a competitive economy	20 (1991) 345
Teece, D.J., Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy	15 (1986) 285
Teece, D.J., Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy	22 (1993) 112
Teitel, S., Towards an understanding of technical change in semi-industrialized countries	10 (1981) 127
Ternière-Buchot, P.F., Technological assessment of external effect	2 (1973/74) 18
Tether, B.S., I.J. Smith and A.T. Thwaites, Smaller enterprises and innovation in the UK: the SPRU Innovations Database revisited	26 (1998) 19
Tether, B.S., <i>see</i> Storey, D.J.,	26 (1998) 933
Tether, B.S. and D.J. Storey, Smaller firms and Europe's high technology sectors: a framework for analysis and some statistical evidence	26 (1998) 947
Tether, B.S., <i>see</i> Storey, D.J.,	26 (1998) 1037
Tether, B.S., Small and large firms: sources of unequal innovations?	27 (1998) 725
Teubal, M., <i>see</i> Spiller, P.T.,	6 (1977) 254
Teubal, M. and E. Steinmueller, Government policy, innovation and economic growth: Lessons from a study of satellite communications	11 (1982) 271
Teubal, M., The R & D performance through time of young, high-technology firms: Methodology and an illustration	11 (1982) 333
Teubal, M., <i>see</i> Justman, M.,	15 (1986) 121
Teubal, M., T. Yinnon and E. Zuscovitch, Networks and market creation	20 (1991) 381
Teubal, M., <i>see</i> Spiller, P.T.,	22 (1993) 113
Teubal, M., <i>see</i> Justman, M.,	24 (1995) 259
Teubal, M., A catalytic and evolutionary approach to horizontal technology policies	25 (1997) 1161

- Teubal, M.N., N. Arnon and M. Trachtenberg, Performance in innovation in the Israeli electronics industry: a case study of biomedical electronics instrumentation 5 (1976) 354
- Thirtle, C., P. Palladino and J. Piesse, On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms 26 (1998) 557
- Thomas, S.M., K. Kimura and J.F. Burke, Patenting of recombinant proteins: An analysis of tissue plasminogen activator (t-PA) in Europe, The United States and Japan 24 (1995) 645
- Thomke, S., E. von Hippel and R. Franke, Modes of experimentation: an innovation process – and competitive – variable 27 (1998) 315
- Thomke, S.H., The role of flexibility in the development of new products: An empirical study 26 (1998) 105
- Thomke, S.H., Simulation, learning and R & D performance: Evidence from automotive development 27 (1998) 55
- Thwaites, A.T., *see* Tether, B.S., 26 (1998) 19
- Tijssen, R.J.W., A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy research 21 (1992) 27
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R & D networks: A case study of catalysis research in the Netherlands 25 (1997) 1277
- Tijssen, R.J.W., Quantitative assessment of large heterogeneous R & D networks: the case of process engineering in the Netherlands 26 (1998) 791
- Tijssen, R.J.W. and E. van Wijk, In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge flows in information and communication technologies research 28 (1999) 519
- Tishler, A., *see* Dvir, D., 27 (1998) 915
- Tong, X. and J.D. Frame, Measuring national technological performance with patent claims data 23 (1994) 133
- Toren, N. and D. Galai, The determinants of the potential effectiveness of government-supported industrial research institutes 7 (1978) 362
- Torrisi, S., *see* Gambardella, A., 27 (1998) 445
- Townsend, J., *see* Rothwell, R., 3 (1974/75) 258
- Townsend, J., *see* Bresson, C., 7 (1978) 48
- Townsend, J., *see* Robson, M., 17 (1988) 1
- Townsend, J., *see* Rothwell, R., 22 (1993) 110
- Trachtenberg, M., *see* Teubal, M.N., 5 (1976) 354
- Tripsas, M., S. Schrader and M. Sobrero, Discouraging opportunistic behavior in collaborative R & D: A new role for government 24 (1995) 367
- Trommetter, M., *see* Frenken, K., 28 (1999) 469
- Tsukahara, S. and K. Yamada, A note on the time lag between the life cycle of a discipline and resource allocation in Japan 11 (1982) 133
- Turkcan, E., The limits of science policy in a developing country: the Turkish case. A study based on the experience of the scientific and technical research council of Turkey 2 (1973/74) 336
- Turner, W.A., B. Michelet and J.P. Courtial, Scientific and Technological Information Banks for the network management of research 19 (1990) 467
- Tyre, M.J., Managing the introduction of new process technology: International differences in a multi-plant network 20 (1991) 57
- Tyre, M.J., *see* Von Hippel, E., 24 (1995) 1
- Uhlmann, L., Innovation in industry: A discussion of the state-of-the-art and the results of innovation research in German-speaking countries 4 (1975) 312
- Ulrich, K., The role of product architecture in the manufacturing firm 24 (1995) 419
- Utterback, J., Obituary of William J. Abernathy 14 (1985) 1
- Utterback, J.M., *see* Allen, Th.J., 7 (1978) 124
- Utterback, J.M., *see* Bollinger, L., 12 (1983) 1
- Utterback, J.M., M. Meyer, E. Roberts and G. Reigberger, Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980 17 (1988) 15
- Utterback, J.M. and F. Suárez, Innovation, competition and industry structure 22 (1993) 1
- Utterback, J.M., M. Meyer, E. Roberts and G. Reitberger, Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980 22 (1993) 113
- Utterback, J.M., *see* Pistorius, C.W.I., 26 (1998) 67
- Uzumeri, M. and S. Sanderson, A framework for model and product family competition 24 (1995) 583
- Uzumeri, M., *see* Sanderson, S., 24 (1995) 761
- v. Berg, I., *see* Ahrens, H.J., 2 (1973/74) 94

Valentine, B., Obstacles to space co-operation: Europe and the post-Apollo Experience	1 (1971/72) 104
Van den Besselaar, P., <i>see</i> Leydesdorff, L.,	23 (1994) 217
van den Daele, W. and W. Krohn, Experimental implementation as a linking mechanism in the process of innovation	27 (1998) 853
van den Ende, J. and R. Kemp, Technological transformations in history: how the computer regime grew out of existing computing regimes	28 (1999) 831
van der Meulen, B., Science policies as principal agent games. Institutionalization and path dependency in the relation between government and science	27 (1998) 397
van der Meulen, B. and A. Rip, Mediation in the Dutch science system	27 (1998) 757
Van der Werf, P.A., Explaining downstream innovation by commodity suppliers with expected innovation benefit	21 (1992) 315
Van Dierdonck, R., K. Debackere and B. Engelen, University-industry relationship: How does the Belgian academic community feel about it?	19 (1990) 551
van Dijk, T. and G. Duysters, Passing the European Patent Office: evidence from the data-processing industry	27 (1998) 937
van Dorp, C.A.F., <i>see</i> Spangenberg, J.F.A.,	19 (1990) 239
Van Hulst, N. and B. Olds, On high tech snobbery	22 (1993) 455
van Leeuwen, Th.N., <i>see</i> Rinia, E.J.,	27 (1998) 95
Van Raan, A.F.J., <i>see</i> Moed, H.F.,	14 (1985) 131
Van Raan, A.F.J., <i>see</i> Van Vianen, B.G.,	19 (1990) 61
Van Raan, A.F.J., <i>see</i> Peters, H.P.F.,	22 (1993) 23
Van Raan, A.F.J., <i>see</i> Peters, H.P.F.,	22 (1993) 47
Van Raan, A.F.J., <i>see</i> Nederhof, A.J.,	22 (1993) 353
Van Raan, A.F.J., <i>see</i> Engelsman, E.C.,	23 (1994) 1
Van Raan, A.F.J., <i>see</i> Noyons, E.C.M.,	23 (1994) 443
Van Raan, A.F.S., <i>see</i> Rinia, E.J.,	27 (1998) 95
Van Reenen, J., <i>see</i> Geroski, P.A.,	26 (1998) 33
Van Reenen, J., Why has Britain had slower R & D growth?	26 (1998) 493
Van Vianen, B.G., H.F. Moed and A.F.J. van Raan, An exploration of the science base of recent technology	19 (1990) 61
van Vuren, H.G., <i>see</i> Rinia, E.J.,	27 (1998) 95
van Wijk, E., <i>see</i> Tijssen, R.J.W.,	28 (1999) 519
Van Wijk, R.J. and J.P.H. Wessels, Focussing a co-operative industrial research institute: A case study	16 (1987) 39
Vanderwerf, P.A., Product tying and innovation in U.S. wire preparation equipment	19 (1990) 83
Väyrynen, R., Global interdependence or the European fortress? Technology policies in perspective	27 (1998) 627
Vega, M., <i>see</i> Patel, P.,	28 (1999) 145
Vehorn, C.L., J.S. Landefeld and D.P. Wagner, Measuring the contribution of biomedical research to the production of health	11 (1982) 3
Venkataraman, S., <i>see</i> Majumdar, S.K.,	22 (1993) 521
Verspagen, B., <i>see</i> Kleinknecht, A.,	19 (1990) 387
Veugelers, R., Internal R & D expenditures and external technology sourcing	26 (1998) 303
Veugelers, R. and B. Cassiman, Make and buy in innovation strategies: evidence from Belgian manufacturing firms	28 (1999) 63
Vincenti, W.G., Variation-selection in the innovation of the retractable airplane landing gear: the Northrop 'anomaly'	23 (1994) 575
Vinkler, P., Management system for a scientific research institute based on the assessment of scientific publications	15 (1986) 77
Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry	25 (1997) 1013
von Grebmer, K., <i>see</i> Schott, B.,	2 (1973/74) 380
Von Hippel, E., The dominant role of users in the scientific instrument innovation process	5 (1976) 212
Von Hippel, E., A customer-active paradigm for industrial product idea generation	7 (1978) 240
Von Hippel, E., Appropriability of innovation benefit as a predictor of the source of innovation	11 (1982) 95
Von Hippel, E., Cooperation between rivals: Informal know-how trading	16 (1987) 291
Von Hippel, E., Task partitioning: An innovation process variable	19 (1990) 407
Von Hippel, E., The dominant role of users in the scientific instrument innovation process	22 (1993) 103
Von Hippel, E., <i>see</i> Riggs, W.,	23 (1994) 459
Von Hippel, E. and M.J. Tyre, How learning by doing is done: problem identification in novel process equipment.	24 (1995) 1
Von Hippel, E., <i>see</i> Thomke, S.,	27 (1998) 315
von Zedtwitz, M., <i>see</i> Gassmann, O.,	28 (1999) 231
Vonortas, N.S., Research joint ventures in the US	26 (1998) 577
Vos, C.M and C.L. Balfoort, Strategic conferencing: A new approach in science policy	18 (1989) 51
Voss, C.A., Implementation: A key issue in manufacturing technology: The need for a field of study	17 (1988) 55
Wagner, D.P., <i>see</i> Vehorn, C.L..	11 (1982) 3

Waissbluth, M., G. Cadena and J.L. Solleiro, Linking university and industry: An organizational experience in Mexico	17 (1988) 341
Wakasugi, R., Why are Japanese firms so innovative in engineering technology?	21 (1992) 1
Wakelin, K., Innovation and export behavior at the firm level	26 (1998) 829
Walker, G., <i>see</i> Kogut, B.,	24 (1995) 77
Walker, W., <i>see</i> Pavitt, K.,	5 (1976) 11
Walker, W., <i>see</i> Pavitt, K..	22 (1993) 114
Walker, W.B., The multi-role combat aircraft (MRCA): a case study in European collaboration	2 (1973/74) 280
Walker, W.B., MRCA: Reply to Professor Saul	3 (1974/75) 375
Walker, W.B., MRCA: reply to Mr. Greenwood	4 (1975) 211
Wallmark, J.T. and D.H. McQueen, One hundred major Swedish technical innovations from 1945-1980	20 (1991) 325
Walsh, V., Invention and innovation in the chemical industry: Demand-pull or discovery-push	13 (1984) 211
Walsh, V., Invention and innovation in the chemical industry: Demand-pull or discovery-push?	22 (1993) 115
Walsh, V., Design, innovation and the boundaries of the firm	25 (1997) 509
Walsh, V., <i>see</i> Green, K.,	28 (1999) 775
Walters, C.F., <i>see</i> Geroski, P.A.,	26 (1998) 33
Wang, J.C., Cooperative research in a newly industrialized country: Taiwan	23 (1994) 697
Watanabe, C., Trends in the substitution of production factors of technology – empirical analysis of the inducing impact of the energy crisis of Japanese industrial technology	21 (1992) 481
Watanabe, C., Systems option for sustainable development – effect and limit of the Ministry of International Trade and Industry's efforts to substitute technology for energy	28 (1999) 719
Watkins, D., <i>see</i> Rubenstein, A.H.,	6 (1977) 324
Watkins, T.A., A technological communications costs models of R & D consortia as public policy	20 (1991) 87
Webster, A., <i>see</i> Rappert, B.,	28 (1999) 871
Weeder, P., <i>see</i> Bodewitz, H.,	17 (1988) 213
Weinberg, A.M., Response to Burns and Studer's 'Reflections on Alvin M. Weinberg'	5 (1976) 197
Weingart, P., Science and the media	27 (1998) 869
Weinstein, O., <i>see</i> Gallouj, F.,	26 (1998) 537
Weiss, A.R., <i>see</i> Birnbaum-More, P.H.,	23 (1994) 249
Wessels, J.P.H., <i>see</i> Van Wijk, R.J.,	16 (1987) 39
Weyand, H., <i>see</i> Ahrens, H.J.,	2 (1973/74) 94
White, G.R., <i>see</i> Daghfous, A.,	23 (1994) 267
White, M., <i>see</i> Lancaster, G.A.,	6 (1977) 358
White, S. and X. Liu, Organizational processes to meet new performance criteria: Chinese pharmaceutical firms in transition	27 (1998) 369
Wiarda, E., <i>see</i> Luria, D.,	25 (1997) 233
Wield, D., <i>see</i> Henry, N.,	24 (1995) 707
Willett, A.L., <i>see</i> Jones, P.M.S.,	6 (1977) 152
Williams, C., <i>see</i> Macdonald, S.,	23 (1994) 123
Williams, R. and D. Edge, The social shaping of technology	25 (1997) 865
Wilson, A.H., Innovation in a federal state	2 (1973/74) 364
Wilson, A.H., Canadian science policy: report number four revisited	3 (1974/75) 202
Wilson, A.H., Innovation in Canada: an update	6 (1977) 276
Wilson, R., International licensing of technology: empirical evidence	6 (1977) 114
Windus, M.L. and D.D. Schiffel, Recoupment of government R & D expenditures: issues and practices in the USA	5 (1976) 180
Wingert, B., <i>see</i> Ahrens, H.J.,	2 (1973/74) 94
Winter, S.G., <i>see</i> Nelson, R.R.,	6 (1977) 36
Winter, S.G., <i>see</i> Nelson, R.R.,	22 (1993) 108
Winter, S.G., <i>see</i> Klevorick, A.K.,	24 (1995) 185
Wise, W.S., The role of cost-benefit analysis in planning agricultural R & D programmes	4 (1975) 246
Wiseman, P., Patenting and inventive activity in synthetic fibre intermediates	12 (1983) 329
Wm. Souder, E., Field studies with a Q-sort/nominal-group process for selecting R & D projects	4 (1975) 172
Wonder, E.F., Decision-making and reorganization of the British nuclear power industry	5 (1976) 240
Wonder, E.F., <i>see</i> Morrison, R.W.,	8 (1979) 187
Wortmann, M., Multinationals and internationalization of R & D: New developments in German companies	19 (1990) 175
Wright, R.W., <i>see</i> Birnbaum-More, P.H.,	23 (1994) 249
Wyatt, G., <i>see</i> Hare, P.,	17 (1988) 315
Wyatt, S., <i>see</i> Collins, P.,	17 (1988) 65

Wyckoff, A., <i>see</i> Papaconstantinou, G.,	27 (1998) 301
Wynne, B., The rhetoric of consensus politics: a critical review of technology assessment	4 (1975) 108
Wynne, B., The rhetoric of consensus politics: a critical review of technology assessment	22 (1993) 116
Xiaoping, H., <i>see</i> Dalpé, R.,	21 (1992) 251
Yamada, K. and E. Otaki, Life cycle of basic research – an approach to the quantitative analysis of R & D activity	1 (1971/72) 352
Yamada, K., <i>see</i> Tsukahara, S.,	11 (1982) 133
Yasuda, H., <i>see</i> Odagiri, H.,	25 (1997) 1059
Yinnon, A.T., The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel	25 (1997) 163
Yinnon, T., <i>see</i> Teubal, M.,	20 (1991) 381
Youtie, J., <i>see</i> Shapira, P.,	25 (1997) 185
Zander, I., Technological diversification in the multinational corporation – historical evolution and future prospect	26 (1998) 209
Zander, I., The evolution of technological capabilities in the multinational corporation – dispersion, duplication and potential advantages from multinationality	27 (1998) 17
Zander, I., How do you mean 'global'? An empirical investigation of innovation networks in the multinational corporation	28 (1999) 195
Zanfei, A., Patterns of collaborative innovation in the US telecommunications industry after divestiture	22 (1993) 309
Zeldenrust, S., <i>see</i> Leydesdorff, L.,	13 (1984) 153
Zhang, W.B., Government's research policy and economic growth: Capital, knowledge and economic structure	22 (1993) 327
Zhao, L., <i>see</i> Reddy, N.M.,	19 (1990) 285
Zhou, L.Y. and A.H. Rubenstein, Imbedded technology capability (ITC) and the management of science and technology in China: A research note	15 (1986) 49
Zif, J., D. McCarthy and A. Israeli, Characteristics of business with high R & D investment	19 (1990) 435
Zirger, B.J., <i>see</i> Maidique, M.A.,	14 (1985) 299
Zitt, M., R. Barré, A. Sigogneau and F. Laville, Territorial concentration and evolution of science and technology activities in the European Union: a descriptive analysis	28 (1999) 545
Zucker, L.G. and M.R. Darby, Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm	26 (1998) 429
Zulueta, M.A., <i>see</i> Goméz, I.,	24 (1995) 459
Zuscovitch, E., The economic dynamics of technologies development	15 (1986) 175
Zuscovitch, E., <i>see</i> Teubal, M.,	20 (1991) 381
Zysman, J., Between the market and the state: dilemmas of French policy for the electronics industry	3 (1974/75) 312