

Author Index to Volume 248

April-June 1990

A

- Aaron, Henry and Schwartz, William B.: Health care rationing (letter). p663 11 May 1990.
- Aaronson, Stuart A. *See* Di Fiore, Pier Paolo. *See also* LaRochelle, William J.
- Abbott, L. F. *See* Kepler, Thomas B.
- Abelson, Philip H. (editorials): America bashing. p1173 8 June 1990. Applications of fuel cells. p1469 22 June 1990. The lost U.S. excellence in manufacturing. p125 13 Apr 1990. New technology for cleaner air. p793 18 May 1990. Opportunities in agricultural research. p941 25 May 1990. Science and technology policy. p421 27 Apr 1990.
- Abrams, Richard M.: review of *Scale and Scope*, by Alfred D. Chandler, Jr. p1667 29 June 1990.
- Adelstein, Stephen. *See* Goodnow, Christopher C.
- Adler, Nancy E.; David, Henry P.; Major, Brenda N.; Roth, Susan H.; Russo, Nancy F.; Wyatt, Gail E.: Psychological responses after abortion. p41 6 Apr 1990.
- Ae, Noriharu; Arihara, Joji; Okada, Kensuke; Yoshihara, Teruhiko; Johansen, Chris: Phosphorus uptake by pigeon pea and its role in cropping systems of the Indian subcontinent. p477 27 Apr 1990.
- Agreen, Russell W. *See* Douglas, Bruce C.
- Aitchison, J. *See* Gill, J.
- Allen, Mark. *See* Yung, Yuk L.
- Allen, Richard G. *See* Spencer, Peter S.
- Allendorf, Fred W.: review of *Ecology and Evolution of Livebearing Fishes (Poeciliidae)*, edited by Gary K. Meffe and Franklin F. Snelson, Jr. p502 27 Apr 1990.
- Alper, Joseph (news): Archimedes, Plato make millions for big oil! p1190 8 June 1990.
- Altenbach, Christian; Marti, Thomas; Khorana, H. Gobind; Hubbell, Wayne L.: Transmembrane protein structure: spin labeling of bacteriorhodopsin mutants. p1088 1 June 1990.
- Ambach, Walter. *See* Blumthaler, Mario.
- Ames, Bruce N. *See* Storz, Gisela.
- Andelman, David. *See* Safran, S. A.
- Anderson, Dirk. *See* Smith, Craig A.
- Anderson, Donald C. *See* Wilson, James M.
- Anderson, Donald W. *See* Atkinson, Richard C.
- Aneshansley, Daniel J. *See* Dean, Jeffrey.
- Arcuri, Karen E. *See* Waxman, Lloyd.
- Arihara, Joji. *See* Ae, Noriharu.
- Armstrong, Peter B.: review of *Leukocyte Adhesion Molecules*, edited by T. A. Springer, D. C. Anderson, A. S. Rosenthal, and R. Rothlein. p1141 1 June 1990.
- Atkin, Curtis L. *See* Barker, David F.
- Atkinson, Richard C.: Supply and demand for scientists and engineers: a national crisis in the making. p425 27 Apr 1990.
- and Anderson, Donald W.: Wiring the campuses (editorial). p529 4 May 1990.
- Awise, John C. *See* Meylan, Anne B.

B

- Bada, Jeffrey L.: Racemization dating (letter). p539 4 May 1990.

- Bahcall, John N.; Guhathakurta, Puragra; Schneider, Donald P.: What the longest exposures from the Hubble Space Telescope will reveal. p178 13 Apr 1990.
- Baird, Andrew. *See* Kaner, Robert J.
- Baker, Keith. *See* Wei, Aguan.
- Bakker, E. *See* Van Broeckhoven, C.
- Baltimore, David. *See* Oettinger, Marjorie A.
- Barbacid, Mariano. *See* Kumar, Ramesh.
- Barinaga, Marcia (news): AIDS conference: science or circus? p1181 8 June 1990. AIDS meeting: unexpected progress. p1596 29 June 1990. Physics for the future U.S. work force. p27 6 Apr 1990. Researchers look ahead to AIDS meeting. p1180 8 June 1990. Stanford erupts over indirect costs. p292 20 Apr 1990. Swimming for dear memory. p1605 29 June 1990. The tide of memory, turning. p1603 29 June 1990.
- Barker, David F.; Hostikka, Sirkka Liisa; Zhou, Jing; Chow, Louise T.; Oliphant, Arnold R.; Gerken, Steven C.; Gregory, Martin C.; Skolnick, Mark H.; Atkin, Curtis L.; Tryggvason, Karl: Identification of mutations in the COL4A5 collagen gene in Alport syndrome. p1224 8 June 1990.
- Bartley, J. M.; Glazner, A. F.; Schermer, E. R.: North-south contraction of the Mojave block and strike-slip tectonics in southern California. p1398 15 June 1990.
- Basilico, Claudio. *See* Kaner, Robert J.
- Basten, Antony. *See* Goodnow, Christopher C.
- Beattie, Eric C. *See* Esch, Fred S.
- Beckmann, Jacques S.: Genetic and physical mapping of the human genome (letter). p18 6 Apr 1990.
- Beckmann, M. Patricia. *See* Smith, Craig A.
- Beckmann, Richard P.; Mizzen, Lee A.; Welch, William J.: Interaction of Hsp 70 with newly synthesized proteins: implications for protein folding and assembly. p850 18 May 1990.
- Bedzyk, Michael J.; Bommarito, G. Mark; Caffrey, Martin; Penner, Thomas L.: Diffuse-double layer at a membrane-aqueous interface measured with x-ray standing waves. p52 6 Apr 1990.
- Belford, Robert E. *See* Gust, Devens.
- Bellet, Dominique. *See* Bidart, Jean-Michel.
- Benner, Steven A. and Ellington, Andrew D.: "Progenote" or "protogenote"? (letter). p943 25 May 1990.
- Benovic, Jeffrey L. *See* Lohse, Martin J.
- Beranek, Leo L.; Smullin, Louis; Tsipis, Kosta: Civilian technology development (letter). p942 25 May 1990.
- Berger, W. H.: review of *Biblogical Oceanography*, by Eric L. Mills. p902 18 May 1990.
- Bergmann, Bernard: Light bending: prediction and theory (letter). p423 27 Apr 1990.
- Berk, Arnold J. *See* Kao, C. Cheng.
- Berry, Jim: EPA and asbestos removal (letter). p1595 29 June 1990.
- Berta, Annalisa and Wyss, André R.: Oldest pinniped (technical comment). p499 27 Apr 1990.
- Bevan, Michael J. *See* Hosken, Nancy A.
- Bayreuther, K. *See* Sisodia, S. S.
- Bian, Junhui. *See* Ghosh, Tarun K.
- Bidart, Jean-Michel; Troalen, Frederic; Ghillani, Pascale; Rouas, Nathalie; Razafindratsita, Alain; Bohuon, Claude; Bellet, Dominique: Peptide immunogen mimicry of a protein-specific structural epitope on human choriogonadotropin. p736 11 May 1990.
- Bignon, J. *See* Mossman, B. T.
- Bindschadler, Robert A. *See* Zwally, H. Jay.
- Bishop, Alan R. *See* Conradson, Steven D.
- Bissel, Mina J. *See* Sieweke, Michael H.
- Bittersmann, Edith. *See* Gust, Devens.
- Bivens, Lyle: Scientific records and regulations (letter). p1471 22 June 1990.
- Blacher, Russell W. *See* Esch, Fred S.
- Blackman, Marcia; Kappler, John; Marrack, Philippa: The role of the T cell receptor in positive and negative selection of developing T cells. p1335 15 June 1990.
- Blair, Norman. *See* Kaas, Jon K.
- Blom, R. G. *See* Ford, J. P.
- Blumthaler, Mario and Ambach, Walter: Indication of increasing solar ultraviolet-B radiation flux in Alpine regions. p206 13 Apr 1990.
- Boggs, Danny J.: Energy consumption (letter). p1066 1 June 1990.
- Bohuon, Claude. *See* Bidart, Jean-Michel.
- Boland, John J. and Villarrubia, J. S.: Identification of the products from the reaction of chlorine with the silicon(111)-7×7 surface. p838 18 May 1990.
- Bommarito, G. Mark. *See* Bedzyk, Michael J.
- Bondurant, Maurice C. *See* Koury, Mark J.
- Bosley, A. D.: Engineering school needs (letter). p17 6 Apr 1990.
- Bots, Gerard Th. A. M. *See* Levy, Efrat.
- Bowen, Brian W. *See* Meylan, Anne B.
- Boy-Marcotte, Emmanuelle. *See* Créchet, Jean-Bernard.
- Boynton, Alton L. *See* Hill, Timothy D.
- Boynton, William V. *See* Hildebrand, Alan R.
- Bracewell, R. N.: Numerical transforms. p697 11 May 1990.
- Breitfeld, Philip P. *See* Casanova, James E.
- Brenner, Anita C. *See* Zwally, H. Jay.
- Breton, Jacques. *See* Robles, Steven J.
- Bridge, John H. B.; Smolley John R.; Spitzer, Kenneth W.: The relationship between charge movements associated with I_{Ca} and I_{Na-Ca} in cardiac myocytes. p376 20 Apr 1990.
- Bridges, William P.: review of *The Bureaucratic Labor Market*, by Thomas A. DiPrete. p891 18 May 1990.
- Briefings (news): AIDS meeting: visas. p306 20 Apr 1990. Alaska OK's oil cleanup chemical. p680 11 May 1990. Animal activists repudiate the center. p1487 22 June 1990. Awards for global environment crusaders. p447 27 Apr 1990. Bad news from the competitiveness front. p1185 8 June 1990. Baltimore assembles team. p964 25 May 1990. Bick leaves NIH for Italian foundation. p447 27 Apr 1990. Blue genes for red roses? p1074 1 June 1990. British study endorses chiropractic. p1610 29 June 1990. Broddingnagian robot. p1184 8 June 1990. Budding biologist says no to frog lab. p811 18 May 1990. A bum bomb detector? p1075 1 June 1990. Canine genome project. p1184 8 June 1990. Catch some rays. p1610 29 June 1990. Census adjustment constitutional. p1487 22 June 1990. Changing U.S. de-

mography. p307 20 Apr 1990. Citation impact on the coast. p965 25 May 1990. Climate experts say it again: greenhouse is real. p964 25 May 1990. Cocaine shrinks your brain? p167 13 Apr 1990. Cold fusion claims a victim. p1487 22 June 1990. Correction. p167 13 Apr 1990. Damage to animal research mounts. p1308 15 June 1990. Did queen write Shakespeare's sonnets? p548 4 May 1990. The dimmest "star" p307 20 Apr 1990. DOE fills biology post. p964 25 May 1990. Dr. Press, meet Dr. DiMaggio. p1075 1 June 1990. Drugs and biotechnology. p964 25 May 1990. Dulbecco takes Salk job. p447 27 Apr 1990. EARTHWINDS around the world. p964 25 May 1990. Einstein collection available. p680 11 May 1990. End of Bok era. p1185 8 June 1990. Engineer wins kudos from NSF. p447 27 Apr 1990. Extension service for industry? p1610 29 June 1990. Faculty salaries flat. p680 11 May 1990. Federal job exam reformed. p549 4 May 1990. Finland to join CERN. p965 25 May 1990. Growth without new energy. p1486 22 June 1990. Harvard takes Math Super Bowl. p446 27 Apr 1990. High school science. p549 4 May 1990. HIV: dangerous and contagious? p1075 1 June 1990. Hubble's first light. p1074 1 June 1990. HUGO gets \$1 million from Hughes. p811 18 May 1990. INS puts limits on togetherness. p1309 15 June 1990. Laser cut-up. p810 18 May 1990. Leaky pipes delay astronomy mission. p1486 22 June 1990. Legislators ease SSC litmus test. p36 6 Apr 1990. Malaise amid Russian dreams. p1184 8 June 1990. Mammoth glasnost. p1074 1 June 1990. Math students needed. p306 20 Apr 1990. MIT picks a president. p1486 22 June 1990. Monkeys in limbo. p446 27 Apr 1990. NAS condemns Soviet anti-semitism. p548 4 May 1990. NASA hears final Sakharov plea. p36 6 Apr 1990. NASA scrubs martian instrument package. p1610 29 June 1990. New home for Ehrlich Institute. p548 4 May 1990. New investigator awards at NSF. p810 18 May 1990. Le nez knows. p1487 22 June 1990. NIH: new rumor list. p681 11 May 1990. Ordinary is beautiful. p306 20 Apr 1990. Perils of perestroika. p1184 8 June 1990. The PHS's animal offensive. p811 18 May 1990. Physicists balk at journalist's award. p446 27 Apr 1990. Physics award yields high return. p167 13 Apr 1990. Physics panel sets priorities for 1990s. p681 11 May 1990. Population is environmental. p680 11 May 1990. Pressing the Japanese. p548 4 May 1990. Psychological warfare. p1075 1 June 1990. Rat fluoride study "equivocal." p681 11 May 1990. Repression in Sudan. p1185 8 June 1990. Research shuffle at NIMH. p446 27 Apr 1990. The rise of the Ninja chipmunk. p810 18 May 1990. A sailing race to Mars? p965 25 May 1990. Science education reform gets money. p36 6 Apr 1990. Science for nonscience majors. p964 25 May 1990. Scientists plan China boycott. p1074 1 June 1990. Social science: NSF's poor relation. p307 20 Apr 1990. Soviet missile on display. p1308 15 June 1990. Spinoffs from AIDS research. p447 27 Apr 1990. Sudanese scientists detained. p167 13 Apr 1990. Superconductivity: Japan versus U.S. p681 11 May 1990. Teasing young minds with biology. p167 13 Apr 1990. Thinking about Mars. p446 27 Apr 1990. Third World pollution. p1308 15 June 1990. Top focus needed for AIDS effort. p549 4 May 1990. Truth in labeling. p307 20 Apr 1990. "Turing test" prize. p1610 29 June 1990. Turtle navigation. p1309 15 June 1990. U. of Maryland

gains from glasnost. p1309 15 June 1990. Uncle Sam needs Indiana Jones. p810 18 May 1990. Update: RU 486. p306 20 Apr 1990. Utah scientists: no cold fusion. p36 6 Apr 1990. View of a "clumpy" universe. p681 11 May 1990. Voyager's last light. p1308 15 June 1990. A wasp by any other smell . . . p167 13 Apr 1990. Watch out! here comes the greenhouse. p549 4 May 1990. Welch Award. p811 18 May 1990. Xavier's high-tech time capsule. p36 6 Apr 1990.

Bright, Thomas J. See MacDonald, I. Rosman.
Brinster, Ralph L. See Moriyama, Takashi.
Broadhead, Thomas W. See McKinney, Frank K.
Broadhurst, Anne V. See Roberts, Noel A.
Brodsky, Frances M. See Draper, Rockford K.
Brody, Arnold R. See Asbestos, carcinogenicity, and public policy (letter). p795 18 May 1990.
Brooks, A. S.; Hare, P. E.; Kokis, J. E.; Miller, G. H.; Ernst, R. D.; Wendorf, F.: Dating Pleistocene archeological sites by protein diagenesis in ostrich eggshell. p60 6 Apr 1990.
Brooks, James M. See MacDonald, I. Rosman.
Brownstein, Bernard H. See Qiu, Wei Qiao.
Broze, George J., Jr. See Girard, Thomas J. See also Smith, Raymond P.
Brush, Stephen G.: review of *Energy and Empire*, by Crosbie Smith and M. Norton Wise. p875 18 May 1990.
Bryant, William A. See MacDonald, I. Rosman.
Bryndzia, L. Taras. See Wood, Bernard J.
Bubien, James K.; Kirk, Kevin L.; Rado, Thomas A.; Frizzell, Raymond A.: Cell cycle dependence of chloride permeability in normal and cystic fibrosis lymphocytes. p1416 15 June 1990.
Buchmeier, Nancy A. and Heffron, Fred: Induction of *Salmonella* stress proteins upon infection of macrophages. p730 11 May 1990.
Buck, Henk M.; Koole, Leo H.; van Genderen, Marcel H. P.; Smit, Lia; Geelen, Jan L. M. C.; Jurriaans, Suzanne; Goudsmit, Jaap: Phosphate-methylated DNA aimed at HIV-1 RNA loops and integrated DNA inhibits viral infectivity. p208 13 Apr 1990.
Bujard, Hermann. See Deuschle, Ulrich.
Bunn, Matthew: review of *A Shield in Space?*, by Sanford Lakoff and Herbert F. York. p614 4 May 1990.
Burkly, Linda C.; Lo, David; Flavell, Richard A.: Tolerance in transgenic mice expressing major histocompatibility molecules extrathymically on pancreatic cells. p1364 15 June 1990.
Burlingame, Alma L. See Janes, Susan M.
Burnett, William C. See Wang, Chung-Ho.
Burnham, Nancy A. See Landman, Uzi.
Butler, Alice. See Wei, Aguan.
Butler, Bryan J. See Muhleman, Duane O.

C

Caffrey, Martin. See Bedzyk, Michael J.
Cahan, David: review of *The Collected Papers of Albert Einstein*, edited by John Stachel. p878 18 May 1990.
Camonis, Jacques. See Cr chet, Jean-Bernard.
Campbell, Kevin P. See Jay, Scott D.
Campbell, T. Colin: U.S.-China collaboration (letter). p1594 29 June 1990.
Canright, Geoffrey and Girvin, Steven: Fractional statistics: early work (letter). p1066 1 June 1990.
Cantor, Charles R.: Orchestrating the Human Genome Project. p49 6 Apr 1990.
Carman, Mark D. See Levy, Efrat.
Carney, Robert S. See MacDonald, I. Rosman.
Caron, Marc G. See Lohse, Martin J.
Carter, William E. See Douglas, Bruce C.

Casanova, James E.; Breitfeld, Philip P.; Ross, Stuart A.; Mostov, Keith E.: Phosphorylation of the polymeric immunoglobulin receptor required for its efficient transcytosis. p742 11 May 1990.
Cathles, Lawrence M., III: Scales and effects of fluid flow in the upper crust. p323 20 Apr 1990.
Challoner, David R. See Price, Donald R.
Chambers Scott A.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1129 1 June 1990.
Chandler, John F. See Ostro, Steven J.
Chapin, John K. See Lin, Chia-Sheng.
Cheetham, Alan H. See Jackson, Jeremy B. C.
Chen, Y. See Wang, X. D.
Cheney, Robert E. See Douglas, Bruce C.
Cherfas, Jeremy (news): British Museum in turmoil. p677 11 May 1990. East Germany struggles to clean its air and water. p295 20 Apr 1990. A European superlaser? p1073 1 June 1990. The fringe of the ocean—under siege from land. p163 13 Apr 1990. The practical chemistry of boom and bust. p35 6 Apr 1990. Two bomb attacks on scientists in the U.K. p1485 22 June 1990. Will protests derail AIDS meeting? p26 6 Apr 1990.
Chino, Yuzo M. See Kaas, Jon K.
Chiou, Jang-Shing; Ma, Shao-Mu; Kamaya, Hiroshi; Ueda, Issaku: Anesthesia cutoff phenomenon: interfacial hydrogen bonding. p583 4 May 1990.
Chisari, Francis V. See Moriyama, Takashi.
Ch'ng, J. Lai C.; Shoemaker, David L.; Schimmel, Paul; Holmes, Edward W.: Reversal of creatine kinase translational repression by 3' untranslated sequences. p1003 25 May 1990.
Choi, Kwan Yong; Kim, Ha Kun; Lee, Sang Yeol; Moon, Kyung Ho; Sim, Sang Soo; Kim, Jae Won; Chung, Hong Keun; Rhee, Sue Goo: Molecular cloning and expression of a complementary DNA for inositol 1,4,5-trisphosphate 3-kinase. p64 6 Apr 1990.
Chow, Louise T. See Barker, David F.
Christensen, Kathleen: review of *The Invisible Work Force* by Beverly Lozano. p1428 15 June 1990.
Chua, Nam-Hai. See Lam, Eric.
Chung, Hong Keun. See Choi, Kwan Yong.
Cipra, Barry (news): Big number breakdown. p1608 29 June 1990. How to catch a cheating computer. p1079 1 June 1990.
Cisowski, S. See Gill, J.
Claas, Frans H. J. See van Rood, Jon J.
Clark, Robert A. See Leto, Thomas L.
Clark, William C. See Epstein, Gerald L.
Clements, Mary Lou. See Orentas, Rimas J.
Cochran, Thomas B. See Fetter, Steve.
Codina, Juan. See Lohse, Martin J.
Cohen, Marvin L. See Godwal, B. K.
Cohen, Michael R.: Two plus two (letter). p1174 8 June 1990.
Colton, Richard J. See Landman, Uzi.
Conaway, Joan Weliky and Conaway, Ronald C.: An RNA polymerase II transcription factor shares functional properties with *Escherichia coli* σ_{70} . p1550 22 June 1990.
Conaway, Ronald C. See Conaway, Joan Weliky.
Connors, Karen. See Ronnett, Gabriele V.
Conradson, Steven D.; Raistrick, Ian D.; Bishop, Alan R.: Axial oxygen-centered lattice instabilities and high-temperature superconductivity. p1394 15 June 1990.
Corbetta, Maurizio; Miezin, Francis M.; Dobmeyer, Susan; Shulman, Gordon L.; Petersen, Steven E.: Attentional modulation of neural processing of shape, color, and velocity in humans. p1556 22 June 1990.

Cordell, Barbara. *See* Johnson, Steven A.
 Corn, M. *See* Mossman, B. T.
 Cosman, David. *See* Smith, Craig A.
 Covarrubias, Manuel. *See* Wei, Aguan.
 Craig, J. Charles. *See* Roberts, Noel A.
 Crawford, Mark (news): Biotech companies lobby for federal regulation. p546 4 May 1990. A new, improved egg? p166 13 Apr 1990. Pork in a medical wrapping. p156 13 Apr 1990.
 Crawshaw, Ralph: Health care rationing (letter). p662 11 May 1990.
 Créchet, Jean-Bernard; Pouillet, Patrick; Mistou, Michel-Yves; Parmeggiani, Andrea; Camonis, Jacques; Boy-Marcotte, Emmanuelle; Damak, Faten; Jacquet, Michel: Enhancement of the GDP-GTP exchange of RAS proteins by the carboxyl-terminal domain of SCD25. p866 18 May 1990.
 Crippen, R. E. *See* Ford, J. P.
 Crisp, David. *See* Yung, Yuk L.
 Crump, Kenny S.: Asbestos, carcinogenicity, and public policy (letter). p799 18 May 1990.
 Culliton, Barbara J. (news): Bromley moves west. p544 4 May 1990. Bush hails science at NAS. p436 27 Apr 1990. The case of the altered notebooks: part IV. p809 18 May 1990. Conflict at the RAC. p159 13 Apr 1990. Danforth reapproached. p1180 8 June 1990. Dingell: AIDS researcher in conflict. p676 11 May 1990. Fraudbusters back at NIH. p1599 29 June 1990. Inside the Gallo probe. p1494 22 June 1990. NIH director: the final lap? p547 4 May 1990. NIH: the endless search. p296 20 Apr 1990. One step closer for gene therapy. p1182 8 June 1990.
 Culwell, Alan R. *See* Esch, Fred S.
 Cunningham, Dennis D. *See* Van Nostrand, William E.

D

Dadey, K. *See* Gill, J.
 Damak, Faten. *See* Créchet, Jean-Bernard.
 Dange, V.; Van Atta, Reuel B.; Hecht, Sidney M.: A Mn^{2+} -dependent ribozyme. p585 4 May 1990.
 Daniel, Muthiah. *See* Kestler, Harry.
 David, Henry P. *See* Adler, Nancy E.
 Davis, Lance E.: review of *Productivity and American Leadership*, by William J. Baumol, Sue Anne Batey Blackman, and Edward N. Wolff. p887 18 May 1990.
 Davis, Terri. *See* Smith, Craig A.
 Dean, Jeffrey; Aneshansley, Daniel J.; Edgerton, Harold E.; Eisner, Thomas: Defensive spray of the bombardier beetle: a biological pulse jet. p1219 8 June 1990.
 Dean, Nicholas M. *See* Hill, Timothy D.
 de Bruin, Derik. *See* Qiu, Wei Qiao.
 DeGraziano, Janice M. *See* Gust, Devens.
 DeMars, Robert. *See* Kovats, Susan.
 Denk, Winfried; Strickler, James H.; Webb, Watt W.: Two-photon laser scanning fluorescence microscopy. p73 6 Apr 1990.
 Dervan, Peter B. *See* Oakley, Martha G.
 Desrosiers, Ronald. *See* Kestler, Harry.
 Deuschle, Ulrich; Hipskind, Robert A.; Bujard, Hermann: RNA polymerase II transcription blocked by *Escherichia coli* Lac repressor. p480 27 Apr 1990.
 Devaney, Joseph J.: Grand Canyon haze (letter). p146 13 Apr 1990.
 Devreotes, Peter N. *See* Gundersen, Robert E.
 DeVries, P. J.: Enhancement of symbioses between butterfly caterpillars and ants by vibrational communication. p1104 1 June 1990.
 Di Fiore, Pier Paolo; Segatto, Oreste; Taylor, William G.; Aaronson, Stuart A.; Pierce, Jaca-

lyn H.: EGF receptor and *erbB-2* tyrosine kinase domains confer cell specificity for mitogenic signaling. p79 6 Apr 1990.
 Dillon, Patrick J. *See* Nelbock, Peter.
 Ding, Aihao H.; Porteu, Françoise; Sanchez, Elizabeth; Nathan, Carl F.: Shared actions of endotoxin and taxol on TNF receptors and TNF release. p370 20 Apr 1990.
 Dixon, John R.: Engineering design (letter). p1281 15 June 1990.
 Djerassi, Carl: Fertility awareness: jet-age rhythm method? p1061 1 June 1990.
 Dobmeyer, Susan. *See* Corbetta, Maurizio.
 Doctor, John S. *See* Gertler, Frank B.
 Dokka, R. K. *See* Ford, J. P.
 Douglas, Bruce C.; Cheney, Robert E.; Miller, Laury; Agreen, Russell W.; Carter, William E.; Robertson, Douglas S.: Greenland ice sheet: is it growing or shrinking? (letter). p288 20 Apr 1990.
 Dower, Steven K. *See* Fanslow, William C. *See also* Smith, Craig A.
 Draper, Rockford K.; Goda, Yukiko; Brodsky, Frances M.; Pfeffer, Suzanne R.: Antibodies to calthrin inhibit endocytosis but not recycling to the trans Golgi network in vitro. p1539 22 June 1990.
 Dreyer, Evan B.; Kaiser, Peter K.; Offermann, Jeffrey T.; Lipton, Stuart A.: HIV-1 coat protein neurotoxicity prevented by calcium channel antagonists. p364 20 Apr 1990.
 Dröge, Peter. *See* Wedel, Andrew.
 Duncan, Ian B. *See* Roberts, Noel A.

E

Eberl, Dennis D.; Środoń, Jan; Kralik, Martin; Taylor, Bruce E.; Peterman, Zell E.: Ostwald ripening of clays and metamorphic minerals. p474 27 Apr 1990.
 Edgerton, Harold E. *See* Dean, Jeffrey.
 Edmonds, Charles G. *See* Loo, Joseph A.
 Egelhoff, W. F., Jr.; Gadzuk, J. W.; Powell, C. J.; Van Hove, M. A.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1129 1 June 1990.
 Eisenstein, J. P. and Stormer, H. L.: The fractional quantum Hall effect. p1510 22 June 1990.
 Eisner, Thomas. *See* Dean, Jeffrey.
 Ellington, Andrew D. *See* Benner, Steven A.
 Ellis, Arthur B. *See* Lisensky, George C.
 Ellis, Steven B. *See* Jay, Scott D.
 Elmore, David. *See* Phillips, Fred M.
 Endler, John A. *See* Houde, Anne E.
 Endo, Noriaki. *See* Wucherpfenning, Kai W.
 Engelhardt, Hermann; Humphrey, Neil; Kamb, Barclay; Fahnestock, Mark: Physical conditions at the base of a fast moving Antarctic ice stream. p57 6 Apr 1990.
 Epstein, Gerald L. and Clark, William C.: Two plus two (letter). p1174 8 June 1990.
 Ernst, R. D. *See* Brooks, A. S.
 Esch, Fred S.; Keim, Pamela S.; Beattie, Eric C.; Blacher, Russell W.; Culwell, Alan R.; Oltersdorf, Tilman; McClure, Donald; Ward, Pamela J.: Cleavage of amyloid β peptide during constitutive processing of its precursor. p1122 1 June 1990.
 Ettensohn, Charles A.: Cell interactions in the sea urchin embryo studied by fluorescence photobleaching. p1115 1 June 1990.

F

Fahnestock, Mark. *See* Engelhardt, Hermann.
 Fanslow, William C.; Sims, John E.; Sassenfeld, Helmut; Morrissey, Philip J.; Gillis, Steven; Dower, Steven K.; Widmer, Michael B.: Regu-

lation of alloreactivity in vivo by a soluble form of the interleukin-1 receptor. p739 11 May 1990.

Farrow, Jeffrey S. *See* Van Nostrand, William E.
 Felder, S. *See* Margolis, B.
 Fernandez-Madrid, Ivan J. *See* Levy, Efrat.
 Ferrara, Peter J.: Federal housing and poverty (letter). p538 4 May 1990.
 Fetter, Steve; Cochran, Thomas B.; Grodzins, Lee; Lynch, Harvey L.; Zucker, Martin S.: Gamma-ray measurements of a Soviet cruise-missile warhead. p828 18 May 1990.
 Fieser, Terry M. *See* Stanfield, Robyn L.
 Finch, Caleb E. *See* Johnson, Steven A.
 Fiorentino, David F. *See* Moore, Kevin W.
 Fisher, Susan J. *See* Kovats, Susan.
 Fitzpatrick, Sheila: review of *Russian Psychology*, by David Joravsky. p881 18 May 1990.
 Flavell, Richard A. *See* Burkly, Linda C.
 Florkiewicz, Robert Z. *See* Kaner, Robert J.
 Ford, J. P.; Dokka, R. K.; Crippen, R. E.; Blom, R. G.: Faults in the Mojave Desert, California, as revealed on enhanced Landsat images. p1000 25 May 1990.
 Fowlkes, B. J. *See* Ramsdell, Fred.
 Fox, Herbert: Engineering school needs (letter). p17 6 Apr 1990.
 Frangione, Blas. *See* Levy, Efrat.
 Frank, Douglas G.; Golden, Teresa; Hubbard, Arthur T.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1131 1 June 1990.
 Franks, C. *See* Margolis, B.
 Franks, Nigel R.: review of *The Ants*, by Bert Hölldobler and Edward O. Wilson. p897 18 May 1990.
 Friedel, Robert: review of *The Pencil*, by Henry Petroski. p894 18 May 1990.
 Frizzell, Raymond A. *See* Bubien, James K.
 Fujioka, K. *See* Gill, J.
 Fukui, Yasuhisa. *See* Matsuda, Michiyuki.

G

Gadzuk, J. W. *See* Egelhoff, W. F., Jr.
 Gagen, Charles J.: Fish, money, and science in Puget Sound (letter). p290 20 Apr 1990.
 Galat, Andrzej. *See* Rosen, Michael K.
 Gallin, John I. *See* Leto, Thomas L.
 Galpin, Sarah A. *See* Roberts, Noel A.
 Gamo, T. *See* Sakai, H.
 Gans, Herbert J.: "Underclass": problems with the term (letter). p1472 22 June 1990.
 Gao, Er-Kai. *See* Sprent, Jonathan.
 Gao, Feng. *See* Gust, Devens.
 Garcia, Alberto. *See* Godwal, B. K.
 Gayle, Frank W.: Quasicrystal publications (letter). p944 25 May 1990.
 Gee, J. B. L. *See* Mossman, B. T.
 Geelen, Jan L. M. C. *See* Buck, Henk M.
 Geiduschek, E. Peter. *See* Herendeen, Daniel R.
 Gerken, Steven C. *See* Barker, David F.
 Gertler, Frank B.; Doctor, John S.; Hoffmann, F. Michael: Genetic suppression of mutations in the *Drosophila* *abl* proto-oncogene homolog. p857 18 May 1990.
 Ghillani, Pascale. *See* Bidart, Jean-Michel.
 Ghosh, Tarun K.; Bian, Junhui; Gill, David L.: Intracellular calcium release mediated by sphingosine derivatives generated in cells. p1653 29 June 1990.
 Gibbons, Ann (news): Astronomers want new optical telescopes, but . . . p806 18 May 1990. Billion-dollar orphans: prescription for trouble. p678 11 May 1990. Biotechnology takes root in the Third World. p62 25 May 1990. Growing crops in saltwater. p963 25 May 1990. Is AIDS dementia due to increases in calcium?

- p303 20 Apr 1990. New head for the WHO global program on AIDS. p1306 15 June 1990. New view of Amazonia. p1488 22 June 1990. U.S. math still in poor health. p676 11 May 1990. Watching the dietary detectives. p1188 8 June 1990. What's the sound of one ocean warming? p33 6 Apr 1990.
- Gibson, K. A. *See* Park, M. A.
- Gibson, Michael A. *See* McKinney, Frank K.
- Giese, Neill. *See* LaRoche, William J.
- Gill, David L. *See* Ghosh, Tarun K.
- Gill, J.; Torssander, P.; Lapierre, H.; Taylor, R.; Kaiho, K.; Koyama, M.; Kusakabe, M.; Aitchison, J.; Cisowski, S.; Dadey, K.; Fujioka, K.; Klaus, A.; Lovell, M.; Marsaglia, K.; Pezard, P.; Taylor, B.; Tazaki, K.: Explosive deep water basalt in the Sumisu backarc rift. p1214 8 June 1990.
- Gillis, Steven. *See* Fanslow, William C.
- Gilpin, Michael: review of *Biological Invasions*, edited by J. A. Drake *et al.* p88 6 Apr 1990.
- Girard, Thomas J.; MacPhail, Louise A.; Likert, Karen M.; Novotny, William F.; Miletich, Joseph P.; Broze, George J., Jr.: Inhibition of factor VIIa-tissue factor coagulation activity by a hybrid protein. p1421 15 June 1990.
- Girvin, Steven. *See* Canright, Geoffrey.
- Glazner, A. F. *See* Bartley, J. M.
- Glymour, Clark: review of *Einstein and the History of General Relativity*, edited by Don Howard and John Stachel. p878 18 May 1990.
- Goda, Yukiko. *See* Draper, Rockford K.
- Godwal, B. K.; Meade, Charles; Jeanloz, Raymond; Garcia, Alberto; Liu, Amy Y.; Cohen, Marvin L.: Ultrahigh-pressure melting of lead: a multidisciplinary study. p462 27 Apr 1990.
- Golden, Teresa. *See* Frank, Douglas G.
- Goldfarb, Alex. *See* Kashlev, Mikhail.
- Golub, Edward S. *See* Lenert, Petar.
- Good, Robert A.: The value of animal research (letter). p538 4 May 1990.
- Goodnow, Christopher C.; Adelstein, Stephen; Basten, Antony: The need for central and peripheral tolerance in the B cell repertoire. p1373 15 June 1990.
- Goodwin, Raymond G. *See* Smith, Craig A.
- Gordon, Daniel M. *See* Herrington, Deirdre.
- Gorka, Carolyn. *See* Oettinger, Marjorie A.
- Goudsmid, Jaap. *See* Buck, Henk M.
- Gown, Allen M. *See* Ross, Russell.
- Green, Glen M. and Sussman, Robert W.: Deforestation history of the eastern rain forests of Madagascar from satellite images. p212 13 Apr 1990.
- Green, Michael D.: Health care and the law (letter). p1280 15 June 1990.
- Gregory, Martin C. *See* Barker, David F.
- Gregory, Paul R.: review of *Behind the Factory Walls*, by Paul R. Lawrence, Charalambos A. Vlachoutsicos, and six others. p1428 15 June 1990.
- Grodzins, Lee. *See* Fetter, Steve.
- Grogan, William R.: Engineering school needs (letter). p17 6 Apr 1990.
- Grossman, Arie W. *See* Muhleman, Duane O.
- Grünbaum, F. Alberto. *See* Singer, J. R.
- Guhathakurta, Puragra. *See* Bahcall, John N.
- Guilhot, Stephane. *See* Moriyama, Takashi.
- Guinasso, Norman L., Jr. *See* MacDonald, I. Rosman.
- Gundersen, Robert E. and Devreotes, Peter N.: In vivo receptor-mediated phosphorylation of a G protein in *Dictyostelium*. p591 4 May 1990.
- Gunter, Kurt C. *See* Wright, John J.
- Gunteroth, Warren G.: Health care rationing (letter). p662 11 May 1990.
- Gust, Devens; Moore, Thomas A.; Moore, Ana L.; Lee, Seung-Joo; Bittersmann, Edith; Luttrull, David K.; Rehms, Aden A.; DeGraziano, Janice M.; Ma, Xiaochun C.; Gao, Feng; Belford, Robert E.; Trier, Todd T.: Efficient multistep photoinitiated electron transfer in a molecular pentad. p199 13 Apr 1990.
- Guyot, Francois. *See* Wang, Yanbin.
- ## H
- Haan, J. *See* Van Broeckhoven, C.
- Hacking, Ian: review of *Shaping Written Knowledge*, by Charles Bazerman. p877 18 May 1990.
- Hadfield, M. G. *See* Miller, S. E.
- Hadley, Robert W. *See* Lederer, W. Jonathan.
- Hafler, David A. *See* Wucherpfenning, Kai W.
- Haggerty, Stephen E. and Sautter, Violaine: Ultradeep (greater than 300 kilometers), ultramafic upper mantle xenoliths. p993 25 May 1990.
- Hahn, Karl W.; Klis, Wieslaw A.; Stewart, John M.: Design and synthesis of a peptide having chymotrypsin-like esterase activity. p1544 22 June 1990.
- Hajjar, David P. *See* Kaner, Robert J.
- Hall, Edwin S.: review of *A Victorian Earl in the Arctic*, by Shepard Krech III. p907 18 May 1990.
- Hamilton, David P. (news): Census adjustment battle heats up. p807 18 May 1990. Information decontrol urged. p957 25 May 1990. A question of "fitness". p1598 29 June 1990. Will glasnost wash over U.S. export controls? p21 6 Apr 1990.
- Hamilton, R. M. and Mooney, W. D.: Seismic-wave attenuation associated with crustal faults in the New Madrid seismic zone. p351 20 Apr 1990.
- Hamilton, Warren B.: review of *The Geology of North America*, edited by Albert W. Bally and Allison R. Palmer. p615 4 May 1990.
- Han, Z. L. *See* Wang, X. D.
- Hanafusa, Hidesaburo. *See* Matsuda, Michiyuki.
- Handa, Balraj K. *See* Roberts, Noel A.
- Hannibal, Kari: Report on South Africa (AAAS). p86 6 Apr 1990.
- Hanson, R. Brooks: Planetary fluids (editorial). p281 20 Apr 1990.
- Hardy, J. A. *See* Van Broeckhoven, C.
- Hardy, S. J. S. *See* Randall, L. L.
- Hare, P. E. *See* Brooks, A. S.
- Harrington, John S. *See* Nicholson, William J.
- Harpold, Michael M. *See* Jay, Scott D.
- Harris, John G.; Koch, Christof; Luo, Jin: A two-dimensional analog VLSI circuit for detecting discontinuities in early vision. p1209 8 June 1990.
- Harrison, Lionel G.: review of *Pattern Formation, Ciliate Studies and Models*, by Joseph Frankel. p562 22 June 1990.
- Hayflick, Leonard: Unscrambling an egg (letter). p1281 15 June 1990.
- Hecht, Sidney M. *See* Dange, V.
- Heck, Ramona K. Z.: review of *As We Forgive Our Debtors*, by Teresa A. Sullivan, Elizabeth Warren, and Jay Lawrence Westbrook. p501 27 Apr 1990.
- Heffron, Fred. *See* Buchmeier, Nancy A.
- Heitmann, John A.: review of *Pure Food*, by James Harvey Young. p896 18 May 1990.
- Henley, Ernest M.: review of *Weak Interactions in Nuclei*, by Barry R. Holstein. p90 6 Apr 1990.
- Herendeen, Daniel R.; Williams, Kelly P.; Kassa-vetis, George A.; Geiduschek, E. Peter: An RNA polymerase-binding protein that is required for communication between an enhancer and a promoter. p573 4 May 1990.
- Hermoso, José M. *See* Serrano, Manuel.
- Herrington, Deirdre; Hoffman, Stephen L.; Levine, Myron M.; Gordon, Daniel M.: Malaria vaccines (letter). p422 27 Apr 1990.
- Hester, Lynda D. *See* Ronnett, Gabriele V.
- Higgins, Wayne: Health care rationing (letter). p661 11 May 1990.
- Highstein, Steven M. *See* Moschovakis, Adonis K.
- Higuchi, Darryl A. *See* Smith, Raymond P.
- Hildebrand, Alan R. and Boynton, William V.: Proximal Cretaceous-Tertiary boundary impact deposits in the Caribbean. p843 18 May 1990.
- Hildreth, James E. K. *See* Orentas, Rimas J.
- Hill, Timothy D.; Dean, Nicholas M.; Mordan, Lawrence J.; Lau, Alan F.; Kanemitsu, Martha Y.; Boynton, Alton L.: PDGF-induced activation of phospholipase C is not required for induction of DNA synthesis. p1660 29 June 1990.
- Hine, Alice A. *See* Ostro, Steven J.
- Hipskind, Robert A. *See* Deuschle, Ulrich.
- Hoagland, David A. *See* Smisek, David L.
- Hoffman, Michelle (news): "Superantigens" may shed light on immune puzzle. p685 11 May 1990.
- Hoffman, Stephen L. *See* Herrington, Deirdre.
- Hoffmann, F. Michael. *See* Gertler, Frank B.
- Hofmann, D. J.: Increase in the stratospheric background sulfuric acid aerosol mass in the past 10 years. p996 25 May 1990.
- Holden, Constance (news): Breast cancer therapies weighed. p1602 29 June 1990. Gordon & Breach impanels a journal jury. p298 20 Apr 1990. Irrationality—skeptics strike back. p165 13 Apr 1990. The new workhorses in U.S. labs? p1069 1 June 1990. No American dream for Soviet emigrés. p1068 1 June 1990. Soviet emigrés swamp Israeli science. p1070 1 June 1990. (letter): Research support for Head Start. p1176 8 June 1990.
- Holloway, David: review of *Soviet Science on the Edge of Reform*, by Harley D. Balzer. p750 11 May 1990.
- Holloway, Marguerite (news): No pain, no gain? p1313 15 June 1990.
- Hollowell, James P. *See* Rich, Keith M.
- Holmes, Edward W. *See* Ch'ng, J. Lai C.
- Holmes, Richard T.: review of *American Warblers*, by Douglas H. Morse. p901 18 May 1990.
- Horgan, John: Quasicrystal publications (letter). p944 25 May 1990.
- Hosken, Nancy A. and Bevan, Michael J.: Defective presentation of endogenous antigen by a cell line expressing class I molecules. p367 20 Apr 1990.
- Hostikka, Sirkka Liisa. *See* Barker, David F.
- Hotta, Yoshiaki. *See* Yamada, Takuma.
- Houde, Anne E. and Endler, John A.: Correlated evolution of female mating preferences and male color patterns in the guppy *Poecilia reticulata*. p1405 15 June 1990.
- Howley, Peter M. *See* Werness, Bruce A.
- Hubbard, Arthur T. *See* Frank, Douglas G.
- Hubbell, Wayne L. *See* Altenbach, Christian.
- Huey, Raymond B. *See* Sinervo, Barry.
- Hufbauer, Karl: review of *A Fragile Power*, by Chandra Mukerji. p872 18 May 1990.
- Hume, Joseph R. *See* Leblanc, Normand.
- Humphrey, Neil. *See* Engelhardt, Hermann.
- Hunt, Stephen P. *See* Rusak, Benjamin.
- ## I and J
- Iida, Toshihiko. *See* Stojilković, Stanko S.
- Ingersoll, Andrew P.: Atmospheric dynamics of the outer planets. p308 20 Apr 1990.
- Irving, Steven G. *See* Wright, John J.
- Ishibashi, J. *See* Sakai, H.

Jäckle, Herbert. See Weigel, Detlef.
 Jackson, Jeremy B. C. and Cheetham, Alan H.: Evolutionary significance of morphospecies: a test with cheilostome Bryozoa. p579 4 May 1990.
 Jacquet, Michel. See Créchet, Jean-Bernard.
 Janes, Susan M.; Mu, David; Wemmer, David; Smith, Alan J.; Kaur, Surinder; Maltby, David; Burlingame, Alma L.; Klinman, Judith P.: A new redox cofactor in eukaryotic enzymes: 6-hydroxydopa at the active site of bovine serum amine oxidase. p981 25 May 1990.
 Jasanoff, Sheila: review of *The Environmental Protection Agency*, by Marc K. Landy, Marc J. Roberts, and Stephen R. Thomas. p895 18 May 1990.
 Jay, Scott D.; Ellis, Steven B.; McCue, Ann F.; Williams, Mark E.; Vedvick, Thomas S.; Harpold, Michael M.; Campbell, Kevin P.: Primary structure of the γ subunit of the DHP-sensitive calcium channel from skeletal muscle. p490 27 Apr 1990.
 Jeanloz, Raymond. See Godwal, B. K.
 Jerzy, Rita. See Smith, Craig A.
 Jezl, Barbara Ann: Macintosh laboratory automation: three software packages. p92 6 Apr 1990.
 Johansen, Chris. See Ae, Noriharu.
 Johnson, Edward M. See Nicholson, William J.
 Johnson, Kathleen E. See Wood, Bernard J.
 Johnson, Steven A.; McNeill, Thomas; Cordell, Barbara; Finch, Caleb E.: Relation of neuronal APP-751/APP-695 mRNA ratio and neuritic plaque density in Alzheimer's disease. p854 18 May 1990.
 Josephson, Paul R.: review of *Science Between the Superpowers*, by Yakov M. Rabkin, and *Techno-Diplomacy*, by Glenn E. Schweitzer. p389 20 Apr 1990.
 Judge, Anne V. See McNutt, Marcia K.
 Jürgens, Gerd. See Weigel, Detlef.
 Jurriaans, Suzanne. See Buck, Henk M.

K

Kaas, Jon K.; Krubitzer, Leah A.; Chino, Yuzo M.; Langston, Andy L.; Polley, Edward H.; Blair, Norman: Reorganization of retinotopic cortical maps in adult mammals after lesions of the retina. p229 13 Apr 1990.
 Kaiho, K. See Gill, J.
 Kaiser, Peter K. See Dreyer, Evan B.
 Kamaya, Hiroshi. See Chiou, Jang-Shing.
 Kamb, Barclay. See Engelhardt, Hermann.
 Kanagawa, Osami. See Moriyama, Takashi.
 Kanemitsu, Martha Y. See Hill, Timothy D.
 Kaner, Robert J.; Baird, Andrew; Mansukhani, Alka; Basilico, Claudio; Summers, Barbara D.; Florkiewicz, Robert Z.; Hajjar, David P.: Fibroblast growth factor receptor is a portal of cellular entry for herpes simplex virus type 1. p1410 15 June 1990.
 Kao, C. Cheng; Lieberman, Paul M.; Schmidt, Martin C.; Zhou, Qiang; Pei, Rui; Berk, Arnold J.: Cloning of a transcriptionally active human TATA binding factor. p1646 29 June 1990.
 Kappler, John. See Blackman, Marcia. See also Koller, Beverly H. See also Marrack, Philippa.
 Karpen, Jeffrey W. See Makino, Clint L.
 Kashlev, Mikhail; Lee, Jookyung; Zalskaya, Katya; Nikiforov, Vadim; Goldfarb, Alex: Blocking of the initiation-to-elongation transition by a transdominant RNA polymerase mutation. p1006 25 May 1990.
 Kassavetis, George A. See Herendeen, Daniel R.
 Katsuda, Shogo. See Ross, Russell.
 Kaula, William M.: Global warming questions (letter). p1281 15 June 1990.
 Kaur, Surinder. See Janes, Susan M.
 Kay, John. See Roberts, Noel A.
 Keim, Pamela S. See Esch, Fred S.
 Kelley, Kathleen. See Wright, John J.
 Kepler, Thomas B.; Marder, Eve; Abbott, L. F.: The effect of electrical coupling on the frequency of model neuronal oscillators. p83 6 Apr 1990.
 Kerr, Richard A. (news): Coral pushes back the past. p1314 15 June 1990. Dinosaurs' death blow in the Caribbean Sea? p815 18 May 1990. From one coral many findings blossom. p1310 15 June 1990. A generational rift in geophysics. p300 20 Apr 1990. Glasnost, greenhouses, and ice ages. p1607 29 June 1990. The ice age bones of contention. p32 6 Apr 1990. Marking the ice ages in coral instead of mud. p31 6 Apr 1990. NOAA revived for the green decade. p1177 8 June 1990. Not so irreconcilable differences? p301 20 Apr 1990. Quake prediction by seismic oxymora? p1490 22 June 1990. Sunspot-weather link is down but not out. p684 11 May 1990. Who will win the El Niño sweepstakes this time? p445 27 Apr 1990.
 Kestler, Harry; Kodama, Toshiaki; Ringler, Douglas; Marthas, Marta; Pedersen, Niels; Lackner, Andrew; Regier, Dean; Sehgal, Prabhakar; Daniel, Muthiah; King, Norval; Desrosiers, Ronald: Induction of AIDS in rhesus monkeys by molecularly cloned simian immunodeficiency virus. p1109 1 June 1990.
 Khan, Tariq A. See Moore, Kevin W.
 Khorana, H. Gobind. See Altenbach, Christian.
 Kiernan, Vincent (news): An engineering challenge. p1483 22 June 1990. Reactor project hitches onto moon-Mars effort. p1482 22 June 1990.
 Kim, E-S. See Sakai, H.
 Kim, Ha Kun. See Choi, Kwan Yong.
 Kim, Jae Won. See Choi, Kwan Yong.
 Kinchington, Derek. See Roberts, Noel A.
 King, Norval. See Kestler, Harry.
 Kipreos, Edward T. and Wang, Jean Y. J.: Differential phosphorylation of c-Abl in cell cycle determined by *cdc2* kinase and phosphatase activity. p217 13 Apr 1990.
 Kirk, Kevin L. See Buben, James K.
 Kisby, Glen F. See Spencer, Peter S.
 Kisielow, Pawel. See von Boehmer, Harald.
 Klaus, A. See Gill, J.
 Klingler, Martin. See Weigel, Detlef.
 Klinman, Judith P. See Janes, Susan M.
 Klis, Wieslaw A. See Hahn, Karl W.
 Klopchin, Kathleen. See Moriyama, Takashi.
 Kobayashi, Hisao. See Yamada, Takuma.
 Koch, Christof. See Harris, John G.
 Kodama, Toshiaki. See Kestler, Harry.
 Kohn, Philip. See Singer, J. R.
 Kokis, J. E. See Brooks, A. S.
 Koller, Beverly H.; Marrack, Philippa; Kappler, John W.; Smithies, Oliver: Normal development of mice deficient in β_2 M, MHC class I proteins, and CD8⁺ T cells. p1227 8 June 1990.
 Komori, Naoka. See Yamada, Takuma.
 Koo, E. H. See Sisodia, S. S.
 Koole, Leo H. See Buck, Henk M.
 Koshland, Daniel E., Jr. (editorials): The funding crisis. p1593 29 June 1990. The new Puritanism. p1057 1 June 1990. Recognizing self from nonself. p1273 15 June 1990. Society cure thyself. p9 6 Apr 1990. The underside of overhead. p645 11 May 1990.
 Koury, Mark J. and Bondurant, Maurice C.: Erythropoietin retards DNA breakdown and prevents programmed death in erythroid progenitor cells. p378 20 Apr 1990.
 Kovacs, Gregory T. A.: Neural interfacing (let-

ter). p1280 15 June 1990.
 Kovats, Susan; Main, Elliot K.; Librach, Clifford; Stubblebine, Marcia; Fisher, Susan J.; DeMars, Robert: A class I antigen, HLA-G, expressed in human trophoblasts. p220 13 Apr 1990.
 Koyama, M. See Gill, J.
 Kralik, Martin. See Eberl, Dennis D.
 Krauss, John C. See Wilson, James M.
 Kremer, S. See Margolis, B.
 Krishtalka, Leonard: review of *The Evolution of Perissodactyls*, edited by Donald R. Prothero and Robert B. Schoch. p899 18 May 1990.
 Kröhn, Antonin. See Roberts, Noel A.
 Kroon, Daniel. See Lenert, Petar.
 Krsmanović, Lazar Z. See Stojilković, Stanko S.
 Krubitzer, Leah A. See Kaas, Jon K.
 Kubik, Peter W. See Phillips, Fred M.
 Kuliopulos, Harriet (news): Amazonian biodiversity. p1305 15 June 1990.
 Kumar, Ramesh; Sukumar, Saraswati; Barbacid, Mariano: Activation of *ras* oncogenes preceding the onset of neoplasia. p1101 1 June 1990.
 Kusakabe, M. See Gill, J.
 Kustu, Sydney. See Wedel, Andrew.
 Kvenvolden, Keith A.: Racemization dating (letter). p540 4 May 1990.

L

Labruyere, Joann. See Olney, John W.
 Lackner, Andrew. See Kestler, Harry.
 Lada, Charles J. and Shu, Frank H.: The formation of sunlike stars. p564 4 May 1990.
 Lam, Eric and Chua, Nam-Hai: GT-1 binding site confers light responsive expression in transgenic tobacco. p471 27 Apr 1990.
 Lambert, Robert W. See Roberts, Noel A.
 Landman, Uzi; Luedtke, W. D.; Burnham, Nancy A.; Colton, Richard J.: Atomistic mechanisms and dynamics of adhesion, nanoindentation, and fracture. p454 27 Apr 1990.
 Landrigan, Philip J. See Nicholson, William J.
 Langer, Robert. See Moses, Marsha A.
 Langston, Andy L. See Kaas, Jon K.
 Lapierre, H. See Gill, J.
 LaRochelle, William J.; Giese, Neill; May-Siroff, Mary; Robins, Keith C.; Aaronson, Stuart A.: Molecular localization of the transforming and secretory properties of PDGF A and PDGF B. p1541 22 June 1990.
 Lau, Alan F. See Hill, Timothy D.
 LaVail, Matthew M. See Uehara, Fumiyuki.
 Leblanc, Normand and Hume, Joseph R.: Sodium current-induced release of calcium from cardiac sarcoplasmic reticulum. p372 20 Apr 1990.
 Lederer, W. Jonathan; Niggli, Ernst; Hadley, Robert W.: Sodium-calcium exchange in excitable cells: fuzzy space. p283 20 Apr 1990.
 Lee, Jookyung. See Kashlev, Mikhail.
 Lee, Sang Yeol. See Choi, Kwan Yong.
 Lee, Seung-Joo. See Gust, Devens.
 Lefkowitz, Robert J. See Lohse, Martin J.
 Lenert, Petar; Kroon, Daniel; Spiegelberg, Hans; Golub, Edward S.; Zanetti, Maurizio: Human CD4 binds immunoglobulins. p1639 29 June 1990.
 Lenski, Richard E.: review of *Sex and Death in Protozoa*, by Graham Bell. p901 18 May 1990.
 Lerner, Richard A. See Stanfield, Robyn L.
 Leslie, Stuart W.: review of *Universities and the Military*, edited by David A. Wilson. p870 18 May 1990.
 Leto, Thomas L.; Lomax, Karen J.; Volpp, Bryan D.; Nunoi, Hiroyuki; Sechler, Joan M. G.; Nauseef, William M.; Clark, Robert A.; Gallin, John L.; Malech, Harry L.: Cloning of a 67-kD neutrophil oxidase factor with similarity to a

- noncatalytic region of p60^{c-src}. p727 11 May 1990.
- Letourneau, Deborah K.: Code of ant-plant mutualism broken by parasite. p215 13 Apr 1990.
- Levine, Arnold J. See Werness, Bruce A.
- Levine, Myron M. See Herrington, Deirdre.
- Levitzki, Alexander: GTP-GDP exchange proteins. p794 18 May 1990.
- Levy, Avraham A. and Walbot, Virginia: Biometric total synthesis of *proto-daphniphylline*. p1532 22 June 1990.
- Levy, Efrat; Carman, Mark D.; Fernandez-Madrid, Ivan J.; Power, Michael D.; Lieberburg, Ivan; van Duinen, Sjoerd G.; Bots, Gerard Th. A. M.; Luyendijk, Willem; Frangione, Blas: Mutation of the Alzheimer's disease amyloid gene in hereditary cerebral hemorrhage, Dutch type. p1124 1 June 1990.
- Librach, Clifford. See Kovats, Susan.
- Lieber, Charles M. See Wu, Xian Liang.
- Lieberburg, Ivan. See Levy, Efrat.
- Lieberman, Paul M. See Kao, C. Cheng.
- Liebermann, Robert C. See Wang, Yanbin.
- Likert, Karen M. See Girard, Thomas J.
- Lin, Bohai. See Mangel, Walter F.
- Lin, Chia-Sheng; Nicoletis, Miguel A. L.; Schneider, Jay S.; Chapin, John K.: A major direct GABAergic pathway from zona incerta to neocortex. p1553 22 June 1990.
- Lindquist, Susan L. See Sanchez, Yolanda.
- Lingappa, Vishwanath R. See Lopez, Charles D.
- Lipton, Stuart A. See Dreyer, Evan B.
- Lisensky, George C.; Penn, Rona L.; Murphy, Catherine J.; Ellis, Arthur B.: Electro-optical evidence for the chelate effect at semiconductor surfaces. p840 18 May 1990.
- Liu, Amy Y. See Godwal, B. K.
- Livingston, Katherine: review of *Analogies Between Analogies*, by A. R. Bednarek and Francoise Ulam. p1670 29 June 1990. review of *Archaeological Thought in America*, edited by C. C. Lamberg-Karlovsky. p616 4 May 1990. review of *Biological Clocks and Environmental Time*, edited by Serge Daan and Eberhard Gwinner. p502 27 Apr 1990. review of *Biology and Utilization of the Cucurbitaceae*, edited by David M. Bates, Richard W. Robinson, and Charles Jeffrey. p751 11 May 1990. review of *Computing Before Computers*, edited by William Aspray. p1670 29 June 1990. review of *Herbicides and Plant Metabolism*, edited by A. D. Dodge. p751 11 May 1990. review of *Immunopharmacology Reviews*, edited by John W. Hadden and Andor Szentivanyi. p503 27 Apr 1990. review of *Physiology of Cold Adaptation in Birds*, edited by Claus Bech and Randi Eidsmo Reinertsen. p390 20 Apr 1990. review of *Prehistory at Cambridge and Beyond*, by Grahame Clark. p616 4 May 1990. review of *Red Panda Biology*, edited by A. R. Glatston. p390 20 Apr 1990.
- Lo, David. See Burkly, Linda C.
- Lohse, Martin J.; Benovic, Jeffrey L.; Codina, Juan; Caron, Marc G.; Lefkowitz, Robert J.: β -Arrestin: a protein that regulates β -adrenergic receptor function. p1547 22 June 1990.
- Lomax, Karen J. See Leto, Thomas L.
- Loo, Joseph A.; Edmonds, Charles G.; Smith, Richard D.: Primary sequence information from intact proteins by electrospray ionization tandem mass spectrometry. p201 13 Apr 1990.
- Lopez, Charles D.; Yost, C. Spencer; Prusiner, Stanley B.; Myers, Richard M.; Lingappa, Vishwanath R.: Unusual topogenic sequence directs prion protein biogenesis. p226 13 Apr 1990.
- Lopez, M. Theresa. See Sinha, Animesh A.
- Lovell, M. See Gill, J.
- Ludolph, Albert C. See Spencer, Peter S.
- Luedtke, W. D. See Landman, Uzi.
- Luo, Jin. See Harris, John G.
- Luttrull, David K. See Gust, Devens.
- Luyendijk, Willem. See Levy, Efrat.
- Lynch, Harvey L. See Fetter, Steve.

M

- Ma, Shao-Mu. See Chiou, Jang-Shing.
- Ma, Xiaochun C. See Gust, Devens.
- Macara, Ian G. See Wolfman, Alan.
- MacDonald, I. Rosman; Reilly, James F., II; Guinasso, Norman L., Jr.; Brooks, James M.; Carney, Robert S.; Bryant, William A.; Bright, Thomas J.: Chemosynthetic mussels at a brine-filled pockmark in the northern Gulf of Mexico. p1096 1 June 1990.
- Mace, Georgina M.: review of *Conservation Biology and the Black-Footed Ferret*, edited by Ulysses S. Seal, E. Tom Thorne, Michael A. Bogan, and Stanley H. Anderson. p88 6 Apr 1990.
- Machin, Peter J. See Roberts, Noel A.
- MacPhail, Louise A. See Girard, Thomas J.
- Main, Elliot K. See Kovats, Susan.
- Majerus, Philip W. See Ross, Theodora S.
- Major, Brenda N. See Adler, Nancy E.
- Major, Judy A. See Zwally, H. Jay.
- Makino, Clint L.; Karpen, Jeffrey W.; Meister, Markus: Postdoc tuition at Stanford (letter). p1176 8 June 1990.
- Malden, L. Trevor. See Ross, Russell.
- Malech, Harry L. See Leto, Thomas L.
- Maltby, David. See Janes, Susan M.
- Mangel, Walter F.; Lin, Bohai; Ramakrishnan, V.: Characterization of an extremely large, ligand-induced conformational change in plasminogen. p69 6 Apr 1990.
- Mann, Jeff R. See Oberdick, John.
- Mansukhani, Alka. See Kaner, Robert J.
- Marcus, George E.: review of *Primate Visions*, by Donna Haraway. p886 18 May 1990.
- Marder, Eve. See Kepler, Thomas B.
- Margolis, B.; Zilberstein, A.; Franks, C.; Felder, S.; Kremer, S.; Ullrich, A.; Rhee, S. G.; Skorecki, K.; Schlessinger, J.: Effect of phospholipase C- γ overexpression on PDGF-induced second messengers and mitogenesis. p607 4 May 1990.
- Marrack, Philippa. See Blackman, Marcia. See also Koller, Beverly H.
- and Kappler, John: The staphylococcal enterotoxins and their relatives. p705 11 May 1990.
- Marsaglia, K. See Gill, J.
- Marsh, James G. See Zwally, H. Jay.
- Marshall, Eliot (news): Agencies, journals set some rules. p954 25 May 1990. A clash over standards for scientific records. p544 4 May 1990. Data sharing: a declining ethic? p952 25 May 1990. The Florida case: appearances matter. p153 13 Apr 1990. Geneva on the Beltway. p955 25 May 1990. Harvard's tough new rules. p154 13 Apr 1990. Mountain sheep experts draw hunters' fire. p437 27 Apr 1990. NASA grilled on space station "flaw." p26 6 Apr 1990. NSF education chief lost in the shuffle. p1183 8 June 1990. Peer review under review. p1307 15 June 1990. Should science journals play cop? p155 13 Apr 1990. When commerce and academe collide. p152 13 Apr 1990. (letter): Full disclosure at the University of Florida. p1280 15 June 1990. Scientific records and regulations. p1471 22 June 1990.
- Marthas, Marta. See Kestler, Harry.
- Marti, Thomas. See Altenbach, Christian.
- Martin, Joseph A. See Roberts, Noel A.
- Marx, Jean (news): Holding the line against heart disease. p1491 22 June 1990. Kaposi's sarcoma puzzle begins to yield. p442 27 Apr 1990. New genes for ailing hearts? p1492 22 June 1990.
- Masuda, Junichi. See Ross, Russell.
- Masuko, Hideyuki. See Ross, Russell.
- Matsuda, Michiyuki; Mayer, Bruce J.; Fukui, Yasuhisa; Hanafusa, Hidesaburo: Binding of transforming protein, p47^{gag-crk}, to a broad range of phosphotyrosine-containing proteins. p1536 22 June 1990.
- Matsumoto, Hiroyuki. See Yamada, Takuma.
- Matthes, Michael T. See Uehara, Fumiyuki.
- May-Siroff, Mary. See LaRochelle, William J.
- Mayer, Bruce J. See Matsuda, Michiyuki.
- Mayo-Bond, Laura. See Wilson, James M.
- McCauley, Clark: Light bending: prediction and theory (letter). p423 27 Apr 1990.
- McClure, Donald. See Esch, Fred S.
- McCraw, Thomas K.: review of *Managing Industrial Enterprise*, edited by William D. Wray. p889 18 May 1990.
- McCue, Ann F. See Jay, Scott D.
- McDevitt, Hugh O. See Sinha, Animesh A.
- McFadden, P. L. See Merrill, R. T.
- McKinney, Frank K.; Broadhead, Thomas W.; Gibson, Michael A.: Coral-bryozoan mutualism: structural innovation and greater resource exploitation. p466 27 Apr 1990.
- McMillan, R. Bruce. See Saunders, Jeffrey J.
- McNeill, Thomas. See Johnson, Steven A.
- McNutt, Marcia K. and Judge, Anne V.: The superswell and mantle dynamics beneath the South Pacific. p969 25 May 1990.
- Meade, Charles. See Godwal, B. K.
- Meikins, Peter: review of *Technical Workers in an Advanced Society*, by Stephen Crawford. p1025 25 May 1990.
- Meister, Markus. See Makino, Clint L.
- Melius, James. See Nicholson, William J.
- Merelli, Francesco. See Stojilković, Stanko S.
- Merrett, John H. See Roberts, Noel A.
- Merrill, R. T. and McFadden, P. L.: Paleomagnetism and the nature of the geodynamo. p345 20 Apr 1990.
- Meylan, Anne B.; Bowen, Brian W.; Avise, John C.: A genetic test of the natal homing versus social facilitation models for green turtle migration. p724 11 May 1990.
- Michener, Gail R.: review of *Marmots*, by David P. Barash. p1025 25 May 1990.
- Miezin, Francis M. See Corbetta, Maurizio.
- Miletich, Joseph P. See Girard, Thomas J.
- Miller, G. H. See Brooks, A. S.
- Miller, Laury. See Douglas, Bruce C.
- Miller, S. E. and Hadfield, M. G.: Development arrest during larval life and life-span extension in a marine mollusc. p356 20 Apr 1990.
- Mills, John S. See Roberts, Noel A.
- Mincy, Ronald B.; Sawhill, Isabel V.; Wolf, Douglas A.: The underclass: definition and measurement. p450 27 Apr 1990. (letter): "Underclass": problems with the term. p1473 22 June 1990.
- Mistou, Michel-Yves. See Cr chet, Jean-Bernard.
- Mitsuya, Hiroaki. See Wright, John J.
- Mizzen, Lee A. See Beckmann, Richard P.
- Moffat, Anne Simon (news): Animal cells transformed in vivo. p1493 22 June 1990. China: a living lab for epidemiology. p553 4 May 1990. Cornell got out in front. p1480 22 June 1990.
- Montgomery, William: review of *The Politics of Evolution*, by Adrian Desmond. p883 18 May 1990.
- Mooi, Ruth. See O'Grady, Richard T.
- Moon, Kyung Ho. See Choi, Kwan Y ng.
- Mooney, W. D. See Hamilton, R. M.
- Moore, Ana L. See Gust, Devens.
- Moore, Jim: Competition exclusion principle (let-

ter). p665 11 May 1990.
 Moore, Kevin W.; Vieira, Paulo; Fiorentino, David F.; Trounstein, Mary L.; Khan, Tariq A.; Mosmann, Timothy R.: Homology of cytokine synthesis inhibitory factor (IL-10) to the Epstein-Barr virus gene BCRF1. p1230 8 June 1990.
 Moore, Thomas A. See Gust, Devens.
 Moore, Thomas E.: review of *The Earth's Ionosphere*, by Michael C. Kelley, with contributions from Rodney A. Heelis. p89 6 Apr 1990.
 Mordan, Lawrence J. See Hill, Timothy D.
 Morell, Virginia (news): The big picture. p440 27 Apr 1990. Confusion in earliest America. p439 27 Apr 1990.
 Morgan, James I. See Oberdick, John.
 Morgan, T. H. See Potter, A. E.
 Moriyama, Takashi; Guilhot, Stephane; Klopchin, Kathleen; Moss, Bernard; Pinkert, Carl A.; Palminter, Richard D.; Brinster, Ralph L.; Kanagawa, Osami; Chisari, Francis V.: Immunobiology and pathogenesis of hepatocellular injury in hepatitis B virus transgenic mice. p361 20 Apr 1990.
 Morrissey, Philip J. See Fanslow, William C.
 Moschoyakis, Adonis K.; Scudder, Charles A.; Highstein, Steven M.: A structural basis for Hering's law: projections to extraocular motoneurons. p1118 1 June 1990.
 Moses, Marsha A.; Sudhalter, Judith; Langer, Robert: Identification of an inhibitor of neovascularization from cartilage. p1408 15 June 1990.
 Mosmann, Timothy R. See Moore, Kevin W.
 Moss, Bernard. See Moriyama, Takashi.
 Mossman, B. T.; Bignon, J.; Corn, M.; Seaton, A.; Gee, J. B. L.: Asbestos, carcinogenicity, and public policy (letter). p799 18 May 1990.
 Mostov, Keith E. See Casanova, James E.
 Mu, David. See Janes, Susan M.
 Muhleman, Duane O.; Grossman, Arie W.; Butler, Bryan J.; Slade, Martin A.: Radar reflectivity of Titan. p975 25 May 1990.
 Murphy, Catherine J. See Lisensky, George C.
 Myers, Richard M. See Lopez, Charles D.

N and O

Nakatsuka, Masashi. See Rosen, Michael K.
 Nathan, Carl F. See Ding, Aihao H.
 Nauseef, William M. See Leto, Thomas L.
 Nelbock, Peter; Dillon, Patrick J.; Perkins, Ann; Rosen, Craig A.: A cDNA for a protein that interacts with the human immunodeficiency virus Tat transactivator. p1650 29 June 1990.
 Nelson, Katherine: review of *Vision and the Emergence of Meaning*, by Anne Dunlea. p1669 29 June 1990.
 Nicholson, Ralph L. See Snyder, Beth A.
 Nicholson, William J.; Johnson, Edward M.; Harington, John S.; Melius, James; Landrigan, Philip J.: Asbestos, carcinogenicity, and public policy (letter). p795 18 May 1990.
 Nicoletis, Miguel A. L. See Lin, Chia-Sheng.
 Nicoll, Roger A. See Zalutsky, Robert A.
 Niggli, Ernst. See Lederer, W. Jonathan.
 Nikiforov, Vadim. See Kashlev, Mikhail.
 Norman, Colin (news): Bromley promises small science focus. p297 20 Apr 1990. How the United States stacks up in key technologies. p299 20 Apr 1990. North Carolina protests Chinese pig cartel. p1304 15 June 1990.
 Novotny, William F. See Girard, Thomas J.
 Noyori, Ryoji: Chiral metal complexes as discriminating molecular catalysts. p1194 8 June 1990.
 Nunoi, Hiroyuki. See Leto, Thomas L.
 Nye, Jeffrey S. See Ronnett, Gabriele V.

Oakley, Martha G. and Dervan, Peter B.: Structural motif of the GCN4 DNA binding domain characterized by affinity cleaving. p847 18 May 1990.
 Obah, Eugene. See Orentas, Rimas J.
 Oberdick, John; Smeyne, Richard J.; Mann, Jeff R.; Zackson, Saul; Morgan, James I.: A promoter that drives transgene expression in cerebellar Purkinje and retinal bipolar neurons. p223 13 Apr 1990.
 Ottinger, Marjorie A.; Schatz, David G.; Gorka, Carolyn; Baltimore, David: RAG-1 and RAG-2, adjacent genes that synergistically activate V(D)J recombination. p1517 22 June 1990.
 Offermann, Jeffrey T. See Dreyer, Evan B.
 O'Grady, Richard T. and Mooi, Ruth: Support for systematics (letter). p1594 29 June 1990.
 Okada, Kensuke. See Ae, Noriharu.
 Olesko, Kathryn M.: review of *Teaching the History of Science*, edited by Michael Shortland and Andrew Warwick. p1242 8 June 1990.
 Oliphant, Arnold R. See Barker, David F.
 Olney, John W.; Zorumski, Charles; Price, Madeleine T.; Labruyere, Joann: L-Cysteine, a bicarbonate-sensitive endogenous excitotoxin. p596 4 May 1990.
 Oltersdorf, Tilman. See Esch, Fred S.
 Oomori, T. See Sakai, H.
 Orentas, Rimas J.; Hildreth, James E. K.; Obah, Eugene; Polydefkis, Michael; Smith, Gale E.; Clements, Mary Lou; Siliciano, Robert F.: Induction of CD4⁺ human cytolytic T cells specific for HIV-infected cells by a gp160 subunit vaccine. p1234 8 June 1990.
 Orringer, Eugene P. See Parker, John C.
 Ostro, Steven J.; Chandler, John F.; Hine, Alice A.; Rosema, Keith D.; Shapiro, Irwin I.; Yeomans, Donald K.: Radar images of asteroid 1989 PB. p1523 22 June 1990.
 Ota, Kohei. See Wucherpfenning, Kai W.

P

Pak, Michael. See Wei, Aguan.
 Palca, Joseph (news): AIDS and the future. p1484 22 June 1990. The Damasios' research web. p813 18 May 1990. Eastern Europe: missing an opportunity. p20 6 Apr 1990. Exchange controls. p22 6 Apr 1990. Getting together bit by bit. p160 13 Apr 1990. Grants squeeze stirs up lobbyists. p803 18 May 1990. How more can mean less. p543 4 May 1990. Import rules threaten research on primates. p1071 1 June 1990. Insights from broken brains. p812 18 May 1990. NSF: hard times amid plenty. p541 4 May 1990. A reliable animal model for AIDS. p1078 1 June 1990. Scientific misconduct cases revealed. p297 20 Apr 1990. Women left out at NIH. p1601 29 June 1990.
 Palmer, Thomas Y.: Grand Canyon haze (letter). p146 13 Apr 1990.
 Palmiter, Richard D. See Moriyama, Takashi.
 Park, M. A.; Gibson, K. A.; Quinones, L.; Schweikert, E. A.: Coincidence counting in time-of-flight mass spectrometry: a test for chemical microhomogeneity. p988 25 May 1990.
 Parker, John C. and Orringer, Eugene P.: review of *Sickle Cell Disease*, edited by Charles F. Whitten and John F. Bertles. p502 27 Apr 1990.
 Parkes, Kevin E. B. See Roberts, Noel A.
 Parmeggiani, Andrea. See Créchet, Jean-Bernard.
 Parry William J.: review of *Time, Energy and Stone Tools*, edited by Robin Torrence. p1140 1 June 1990.
 Patarroyo, Manuel Elkin: Malaria vaccines (let-

ter). p422 27 Apr 1990.
 Peacock, Simon M.: Fluid processes in subduction zones. p329 20 Apr 1990.
 Pearse, Roger. See Qiu, Wei Qiao.
 Pedersen, Niels. See Kestler, Harry.
 Pedlosky, Joseph: The dynamics of the oceanic subtropical gyres. p316 20 Apr 1990.
 Pei, Rui. See Kao, C. Cheng.
 Penn, Rona L. See Lisensky, George C.
 Penner, Thomas L. See Bedzyk, Michael J.
 Perkins, Ann. See Nelbock, Peter.
 Pestre, Ddominique: review of *Lawrence and His Laboratory*, edited by John L. Heilbron and Robert W. Siedel. p874 18 May 1990.
 Peterman, Zell E. See Eberl, Dennis D.
 Petérs, Pauline: review of *Land Filled with Flies*, by Edwin N. Wilmsen. p905 18 May 1990.
 Petersen, Steven E. See Corbetta, Maurizio.
 Peterson, Michael Gregory; Tanese, Naoko; Pugh, B. Franklin; Tjian, Robert: Functional domains and upstream activation properties of cloned human TATA binding protein. p1625 29 June 1990.
 Petroski, Henry: review of *Inventing for Fun and Profit*, by Jacob Rabinow. p892 18 May 1990.
 Pezard, P. See Gill, J.
 Pfeffer, Suzanne R. See Draper, Rockford K.
 Phillips, Fred M.; Zreda, Marek G.; Smith, Stewart S.; Elmore, David; Kubik, Peter W.; Sharma, Pankaj: Cosmogenic chlorine-36 chronology for glacial deposits at BloodyCanyon, eastern Sierra Nevada. p1529 22 June 1990.
 Phinney, Stephen D.: British radiation study (letter). p1595 29 June 1990.
 Pierce, Jacalyn H. See Di Fiore, Pier Paolo.
 Pincus, P. See Safran, S. A.
 Ping, April Joy. See Wilson, James M.
 Pinkert, Carl A. See Moriyama, Takashi.
 Pitts, John L.: Fish, money, and science in Puget Sound (letter). p290 20 Apr 1990.
 Plomin, Robert: The role of inheritance in behavior. p183 13 Apr 1990.
 Poinar, George O., Jr. and Singer, Rolf: Upper Eocene gilled mushroom from the Dominican Republic. p1099 1 June 1990.
 Poirier, Jean-Paul: review of *Rheology of Solids and of the Earth*, edited by Shunichiro Karato and Mitsuhiro Toriumi. p1430 15 June 1990.
 Polley, Edward H. See Kaas, Jon K.
 Polydefkis, Michael. See Orentas, Rimas J.
 Pool, Robert (news): Circuit boards: heal yourselves. p1606 29 June 1990. Closing the gap between proteins and DNA. p1609 29 June 1990. Clusters of clusters: double strange. p1187 8 June 1990. Clusters: strange morsels of matter. p1186 8 June 1990. Freshman chemistry was never like this. p157 13 Apr 1990. "Hairy enzymes" stay in the blood. p305 20 Apr 1990. Laser cooling hits new low. p1077 1 June 1990. A lost generation? p435 27 Apr 1990. Making atoms jump through hoops. p1076 1 June 1990. Making light work of cell surgery. p29 6 Apr 1990. A prism for electrons. p1606 29 June 1990. Struggling to do science for society. p672 11 May 1990. Teaching science appreciation. p158 13 Apr 1990. Who will do science in the 1990s? p433 27 Apr 1990. Wolf: my tritium was an impurity. p1301 15 June 1990. (letter): Water temperatures. p424 27 Apr 1990.
 Popham, David. See Wedel, Andrew.
 Porteu, Françoise. See Ding, Aihao H.
 Potter, A. E. and Morgan, T. H.: Evidence for magnetospheric effects on the sodium atmosphere of Mercury. p835 18 May 1990.
 Poulet, Patrick. See Créchet, Jean-Bernard.
 Powell, C. J. See Egelhoff, W. F., Jr.
 Power, Michael D. See Levy, Efrat.

Price D. L. *See* Sisodia, S. S.
 Price, Donald R. and Challoner, David R.: Full disclosure at the University of Florida (letter). p1280 15 June 1990.
 Price, Madelon T. *See* Olney, John W.
 Prusiner, Stanley B. *See* Lopez, Charles D.
 Pugh, B. Franklin. *See* Peterson, Michael Gregory.

Q

Qiu, Wei Qiao; de Bruin, Derik; Brownstein, Bernard H.; Pearse, Roger; Ravetch, Jeffrey V.: Organization of the human and mouse low-affinity FcγR genes: duplication and recombination. p732 11 May 1990.
 Quinones, L. *See* Park, M. A.

R

Rado, Thomas A. *See* Bubien, James K.
 Raines, Elaine W. *See* Ross, Russell.
 Raistrick, Ian D. *See* Conradson, Steven D.
 Ramakrishnan, V. *See* Mangel, Walter F.
 Ramsdell, Fred and Fowlkes, B. J.: Clonal deletion versus clonal anergy: the role of the thymus in inducing self tolerance. p1342 15 June 1990.
 Ramsey, Norman F.: Experiments with separated oscillatory fields and hydrogen masers. p1612 29 June 1990.
 Randall, L. L.; Topping, T. B.; Hardy, S. J. S.: No specific recognition of leader peptide by SecB, a chaperone involved in protein export. p860 18 May 1990.
 Ravetch, Jeffrey V. *See* Qiu, Wei Qiao.
 Razafindratsita, Alain. *See* Bidart, Jean-Michel.
 Redshaw, Sally. *See* Roberts, Noel A.
 Regier, Dean. *See* Kestler, Harry.
 Rehms, Aden A. *See* Gust, Devens.
 Reilly, F. Kent, III: review of *Regional Perspectives on the Olmec*, edited by Robert J. Sharer and David C. Grove. p1139 1 June 1990.
 Reilly, James F., II. *See* MacDonald, I. Rosman.
 Reilly, William K.: Asbestos removal (letter). p1064 1 June 1990.
 Repenning, Charles A.: Oldest pinniped (technical comment). p499 27 Apr 1990.
 Rhee, Sue Goo. *See* Choi, Kwan Yong. *See also* Margolis, B.
 Rich, Keith M. and Hollowell, James P.: Flunarizine protects neurons from death after axotomy or NGF deprivation. p1419 15 June 1990.
 Richards, Juan L.: review of *The History of Modern Mathematics*, edited by David E. Rowe and John McCleary. p1561 22 June 1990.
 Ricklefs, Robert E.: review of *Bird Flight Performance*, by C. J. Pennycuik. p1556 22 June 1990.
 Ringler, Douglas. *See* Kestler, Harry.
 Rio, Donald C. *See* Siebel, Christian W.
 Ritchie, Alison J. *See* Roberts, Noel A.
 Roberts, Leslie (news): An animal genome project? p550 4 May 1990. British radiation study throws experts into tizzy. p24 6 Apr 1990. Climate extravaganza bombs. p436 27 Apr 1990. The genetic map is back on track after delays. p805 18 May 1990. Genome backlash going full force. p804 18 May 1990. Genome project: an experiment in sharing. p953 25 May 1990. The great clone giveaway. p956 25 May 1990. Plant maps, public and private. p551 4 May 1990. Tough times ahead for the genome project. p1600 29 June 1990. What to do with an animal map. p552 4 May 1990. The worm project. p1310 15 June 1990.
 Roberts, Noel A.; Martin, Joseph A.; Kinchington, Derek; Broadhurst, Anne V.; Craig, J.

Charles; Duncan, Ian B.; Galpin, Sarah A.; Handa, Balraj K.; Kay, John; Kröhn, Antonin; Lambert, Robert W.; Merrett, John H.; Mills, John S.; Parkes, Kevin E. B.; Redshaw, Sally; Ritchie, Alison J.; Taylor, Debra L.; Thomas, Gareth J.; Machin, Peter J.: Rational design of peptide-based HIV proteinase inhibitors. p358 20 Apr 1990.
 Robertson, Douglas S. *See* Douglas, Bruce C.
 Robertson, Harold A. *See* Rusak, Benjamin.
 Robins, Keith C. *See* LaRochelle, William J.
 Robles, Steven J.; Breton, Jacques; Youvan, Douglas C.: Partial symmetrization of the photosynthetic reaction center. p1402 15 June 1990.
 Roche, Alan J.: review of *Science in Germany*, edited by Kathryn M. Olesko. p614 4 May 1990.
 Rodhe, Henning: A comparison of the contribution of various gases to the greenhouse effect. p1217 8 June 1990.
 Rogers, Clare E. *See* Wilson, James M.
 Romer, Robert H.: Ads in scientific journals (letter). p144 13 Apr 1990.
 Ronnett, Gabriele V.; Hester, Lynda D.; Nye, Jeffrey S.; Connors, Karen; Snyder, Solomon H.: Human cortical neuronal cell line: establishment from a patient with unilateral megalocephaly. p603 4 May 1990.
 Roos, R. A. C. *See* Van Broeckhoven, C.
 Roper, Clyde F. E.: review of *Traité de Zoologie*, edited by Pierre P. Grasse. p898 18 May 1990.
 Rosema, Keith D. *See* Ostro, Steven J.
 Rosen, Craig A. *See* Nelbock, Peter.
 Rosen, Michael K.; Standaert, Robert F.; Galat, Andrzej; Nakatsuka, Masashi; Schreiber, Stuart L.: Inhibition of FKBP rotamase activity by immunosuppressant FK506: twisted amide surrogate. p863 18 May 1990.
 Rosenberg, Daniel P.: Cynomolgus monkeys (letter). p1473 22 June 1990.
 Rosenzweig, Anthony. *See* Wucherpfennig, Kai W.
 Ross, Russell; Masuda, Junichi; Raines, Elaine W.; Gown, Allen M.; Katsuda, Shogo; Sasahara, Masakiyo; Malden, L. Trevor; Masuko, Hideyuki; Sato, Hiroshi: Localization of PDGF-B protein in macrophages in all phases of atherogenesis. p1009 25 May 1990.
 Ross, Stuart A. *See* Casanova, James E.
 Ross, Theodora S.; Tait, Jonathan F.; Majerus, Philip W.: Identity of inositol 1,2-cyclic phosphate 2-phosphohydrolase with lipocortin III. p605 4 May 1990.
 Roth, Susan H. *See* Adler, Nancy E.
 Rouas, Nathalie. *See* Bidart, Jean-Michel.
 Rubincam, David Parry: Mars: change in axial tilt due to climate? p720 11 May 1990.
 Rubinstein, Ellis (news): Untold story of HUT78. p1499 22 June 1990.
 Rusak, Benjamin; Robertson, Harold A.; Wisden, William; Hunt, Stephen P.: Light pulses that shift rhythms induce gene expression in the suprachiasmatic nucleus. p1237 8 June 1990.
 Russo, Nancy F. *See* Adler, Nancy E.

S

Safran, S. A.; Pincus, P.; Andelman, David: Theory of spontaneous vesicle formation in surfactant mixtures. p354 20 Apr 1990.
 Sakai, H.; Gamo, T.; Kim, E.-S.; Tsutsumi, M.; Tanaka, T.; Ishibashi, J.; Wakita, H.; Yamano, M.; Oomori, T.: Venting of carbon dioxide-rich fluid and hydrate formation in mid-Okina-wa trough backarc basin. p1093 1 June 1990.
 Sakai, Yutaka. *See* Yamada, Takuma.

Salas, Margarita. *See* Serrano, Manuel.
 Salkoff, Lawrence. *See* Wei, Aguan.
 Samuels, Sheldon W.: Asbestos, carcinogenicity, and public policy (letter). p795 18 May 1990.
 Sanchez, Elizabeth. *See* Ding, Aihao H.
 Sanchez, Yolanda and Lindquist, Susan L.: HSP104 required for induced thermotolerance. p1112 1 June 1990.
 Sander, Stanley P. *See* Yung, Yuk L.
 Sasahara, Masakiyo. *See* Ross, Russell.
 Sassenfeld, Helmut. *See* Fanslow, William C.
 Sato, Hiroshi. *See* Ross, Russell.
 Saunders, Jeffrey J. and McMillan, R. Bruce: Early landscape archeology (letter). p1176 8 June 1990.
 Sautter, Violaine. *See* Haggerty, Stephen E.
 Sawhill, Isabel V. *See* Mincy, Ronald B.
 Schatz, David G. *See* Oettinger, Marjorie A.
 Schermer, E. R. *See* Bartley, J. M.
 Scheuer, Paul J.: Some marine ecological phenomena: chemical basis and biomedical potential. p173 13 Apr 1990.
 Schimmel, Paul. *See* Ch'ng, J. Lai C.
 Schlessinger, J. *See* Margolis, B.
 Schmaier, Alvin H. *See* Van Nostrand, William E.
 Schmidt, Martin C. *See* Kao, C. Cheng.
 Schneider, Donald P. *See* Bahcall, John N.
 Schneider, Jay S. *See* Lin, Chia-Sheng.
 Schreiber, Stuart L. *See* Rosen, Michael K.
 Schuyler, Robert L.: review of *The Chinese of Early Tucson*, by Florence C. Lister and Robert H. Lister. p908 18 May 1990.
 Schwager, Sally: review of *American Teachers*, edited by Donald Warren. p388 20 Apr 1990.
 Schwartz, Ronald H.: A cell culture model for T lymphocyte clonal anergy. p1349 15 June 1990.
 Schwartz, William B. *See* Aaron, Henry.
 Schweikert, E. A. *See* Park, M. A.
 Schweinhart, Lawrence J. and Weikart, David P.: Research support for Head Start (letter). p1174 8 June 1990.
 Scudder, Charles A. *See* Moschovakis, Adonis K.
 Seaton, A. *See* Mossman, B. T.
 Sechler, Joan M. G. *See* Leto, Thomas L.
 Segatto, Oreste. *See* Di Fiore, Pier Paolo.
 Sehgal, Prabhat. *See* Kestler, Harry.
 Seidel, Robert W.: review of *The Restructuring of Physical Science in Europe and the United States, 1945-1960*, edited by Michelangelo De Maria, Mario Grilli, and Fabio Sebastiani. p872 18 May 1990.
 Seidman, J. G. *See* Wucherpfennig, Kai W.
 Seiler, Gretchen: AAAS Council meeting, 1990 (AAAS). p611 4 May 1990.
 Selkoe, Dennis J.: Deciphering Alzheimer's disease: the amyloid precursor protein yields new clues. p1058 1 June 1990.
 Serrano, Manuel; Salas, Margarita; Hermoso, José M.: A novel nucleoprotein complex at a replication origin. p1012 25 May 1990.
 Shapiro, Irwin I. *See* Ostro, Steven J.
 Shapiro, Jerry L.: Grand Canyon haze (letter). p145 13 Apr 1990.
 Sharma, Pankaj. *See* Phillips, Fred M.
 Shoemaker, David L. *See* Ch'ng, J. Lai C.
 Shu, Frank H. *See* Lada, Charles J.
 Shulman, Gordon L. *See* Corbetta, Maurizio.
 Siebel, Christian W. and Rio, Donald C.: Regulated splicing of the *Drosophila* P transposable element third intron in vitro: somatic repression. p1200 8 June 1990.
 Siebenlist, Ulrich. *See* Wright, John J.
 Sietmann, Richard (news): East German scientists wary about unification. p23 6 Apr 1990.
 Sieweke, Michael H.; Thompson, Nancy L.; Sporn, Michael B.; Bissel, Mina J.: Mediation of wound-related Rous sarcoma virus tumori-

genesis by TGF- β . p1656 29 June 1990.
 Siliciano, Robert F. See Orentas, Rimas J.
 Sim, Sang Soo. See Choi, Kwan Yong.
 Sims, John E. See Fanslow, William C.
 Sinervo, Barry and Huey, Raymond B.: Allometric engineering: an experimental test of the causes of interpopulational differences in performance. p1106 1 June 1990.
 Singer, J. R.; Grünbaum, F. Alberto; Kohn, Philip; Zubelli, Jorge Passamani: Image reconstruction of the interior of bodies that diffuse radiation. p990 25 May 1990.
 Singer, Maxine F.: NIH director: recommendations (letter). p795 18 May 1990.
 Singer, Rolf. See Poinar, George O., Jr.
 Sinha, Animesh A.; Lopez, M. Theresa; McDewitt, Hugh O.: Autoimmune diseases: the failure of self tolerance. p1380 15 June 1990.
 Sisodia, S. S.; Koo, E. H.; Beyreuther, K.; Unterbeck, A.; Price D. L.: Evidence that β -amyloid protein in Alzheimer's disease is not derived by normal processing. p492 27 Apr 1990.
 Skolnick, Mark H. See Barker, David F.
 Skorecki, K. See Margolis, B.
 Slade, Martin A. See Muhleman, Duane O.
 Sleep, Norman: review of *Seismic Tomography and Mantle Circulation*, edited by R. K. O'Nions and B. Parsons. p1141 1 June 1990.
 Smeyne, Richard J. See Oberdick, John.
 Smisek, David L. and Hoagland, David A.: Electrophoresis of flexible macromolecules: evidence for a new mode of transport in gels. p1221 8 June 1990.
 Smit, Lia. See Buck, Henk M.
 Smith, Alan J. See Janes, Susan M.
 Smith, Craig A.; Davis, Terri; Anderson, Dirk; Solam, Lisabeth; Beckmann, M. Patricia; Jerzy, Rita; Dower, Steven K.; Cosman, David; Goodwin, Raymond G.: A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins. p1019 25 May 1990.
 Smith, Daniel Scott: review of *Sickness, Recovery and Death*, by James C. Riley. p1241 8 June 1990.
 Smith, David R.: Water temperatures (letter). p423 27 Apr 1990.
 Smith, Donna E. See Waxman, Lloyd.
 Smith, Gale E. See Orentas, Rimas J.
 Smith, John K.: review of *The American Synthetic Rubber Research Program*, by Peter J. T. Morris. p892 18 May 1990.
 Smith, Raymond P.; Higuchi, Darryl A.; Broze, George J., Jr.: Platelet coagulation factor XI_a-inhibitor, a form of Alzheimer amyloid precursor protein. p1126 1 June 1990.
 Smith, Richard D. See Loo, Joseph A.
 Smith, Stewart S. See Phillips, Fred M.
 Smithies, Oliver. See Koller, Beverly H.
 Smolley John R. See Bridge, John H. B.
 Smullin, Louis. See Beranek, Leo L.
 Snyder, Beth A. and Nicholson, Ralph L.: Synthesis of photoalexins in sorghum as a site-specific response to fungal ingress. p1637 29 June 1990.
 Snyder, Solomon H. See Ronnett, Gabriele V.
 Solam, Lisabeth. See Smith, Craig A.
 Sowers, Arthur E.: review of *Electric Fields in Vertebrate Repair*, by Richard B. Borgens, Kenneth R. Robinson, Joseph W. Venable, Jr., and Michael E. McGinnis, with Colin D. McCaig. p1027 25 May 1990.
 Spencer, Peter S.; Allen, Richard G.; Kisby, Glen F.; Ludolph, Albert C.: Excitotoxic disorders (letter). p144 13 Apr 1990.
 Spiegelberg, Hans. See Lenert, Petar.
 Spitzer, Kenneth W. See Bridge, John H. B.
 Sporn, Michael B. See Sieweke, Michael H.
 Sprent, Jonathan. See Webb, Susan R.

—; Gao, Er-Kai; Webb, Susan R.: T cell reactivity to MHC molecules: immunity versus tolerance. p1357 15 June 1990.
 Śródoń, Jan. See Eberl, Dennis D.
 Standaert, Robert F. See Rosen, Michael K.
 Stanfield, Robyn L.; Fieser, Terry M.; Lerner, Richard A.; Wilson, Ian A.: Crystal structures of an antibody to a peptide and its complex with peptide antigen at 2.8 Å. p712 11 May 1990.
 Stanton, Maureen L. See Young, Helen J.
 Steinbach, Martin J.: U.S.-China collatoration (letter). p1594 29 June 1990.
 Stewart, John M. See Hahn, Karl W.
 Stojilković, Stanko S.; Merelli, Francesco; Iida, Toshihiko; Kršmanović, Lazar Z.: Endothelin stimulation of cytosolic calcium and gonadotropin secretion in anterior pituitary cells. p1663 29 June 1990.
 Stokes, Raymond G.: review of *Science, Technology, and Reparations*, by John Gimbel. p1241 8 June 1990.
 Stormer, H. L. See Eisenstein, J. P.
 Story, Jon A. and Weaver, Connie M.: U.S.-China collatoration (letter). p1594 29 June 1990.
 Storz, Gisela; Tartaglia, Louis A.; Ames, Bruce N.: Transcriptional regulator of oxidative stress-inducible genes: direct activation by oxidation. p189 13 Apr 1990.
 Strickler, James H. See Denk, Winfried.
 Stubblebine, Marcia. See Kovats, Susan.
 Sudhalter, Judith. See Moses, Marsha A.
 Sugarman, Stephen D.: The need to reform personal injury law leaving scientific disputes to scientists. p823 18 May 1990.
 Sukumar, Saraswati. See Kumar, Ramesh.
 Summers, Barbara D. See Kaner, Robert J.
 Sussman, Robert W. See Green, Glen M.

T

Tait, Jonathan F. See Ross, Theodora S.
 Takeuchi, Yutaka. See Yamada, Takuma.
 Tanaka, T. See Sakai, H.
 Tanese, Naoko. See Peterson, Michael Gregory.
 Tartaglia, Louis A. See Storz, Gisela.
 Taubes, Gary (news): Cold fusion conundrum at Texas A&M. p1299 15 June 1990.
 Taylor, B. See Gill, J.
 Taylor, Bruce E. See Eberl, Dennis D.
 Taylor, Debra L. See Roberts, Noel A.
 Taylor, R. See Gill, J.
 Taylor, William G. See Di Fiore, Pier Paolo.
 Tazaki, K. See Gill, J.
 Thomas, Gareth J. See Roberts, Noel A.
 Thompson, Nancy L. See Sieweke, Michael H.
 Tjian, Robert. See Peterson, Michael Gregory.
 Todd, Robert F., III. See Wilson, James M.
 Tong, S. Y. See Wang, X. D.
 Tonner, B. P. See Wang, X. D.
 Topping, T. B. See Randall, L. L.
 Torssander, P. See Gill, J.
 Treichler, Paula A.: review of *The Myth of Heterosexual AIDS*, by Michael Fumento. p232 13 Apr 1990.
 Trier, Todd T. See Gust, Devens.
 Troalen, Frederic. See Bidart, Jean-Michel.
 Trounstein, Mary L. See Moore, Kevin W.
 Tryggvason, Karl. See Barker, David F.
 Tsipis, Kosta. See Beranek, Leo L.
 Tsutsumi, M. See Sakai, H.

U and V

Ueda, Issaku. See Chiou, Jang-Shing.
 Uehara, Fumiuyuki; Matthes, Michael T.; Yasumura, Douglas; LaVail, Matthew M.: Light-

evoked changes in the interphotoreceptor matrix. p1662 29 June 1990.
 Ullrich, A. See Margolis, B.
 Unterbeck, A. See Sisodia, S. S.
 Van Andel, Tj. H.: review of *Gorda Ridge*, edited by Gregory R. McMurray. p905 18 May 1990.
 Van Atta, Reuel B. See Dange, V.
 Van Broeckhoven, C.; Haan, J.; Bakker, E.; Hardy, J. A.; Van Hul, W.; Wehnert, A.; Vegter-Van der Vlis, M.; Roos, R. A. C.: Amyloid β protein precursor gene and hereditary cerebral hemorrhage with amyloidosis (Dutch). p1120 1 June 1990.
 van Duinen, Sjoerd G. See Levy, Efrat.
 van Genderen, Marcel H. P. See Buck, Henk M.
 Van Hove, M. A. See Egelhoff, W. F., Jr.
 Van Hul, W. See Van Broeckhoven, C.
 Van Nostrand, William E.; Schmaier, Alvin H.; Farrow, Jeffrey S.; Cunningham, Dennis D.: Protease nexin-II (amyloid β -protein precursor): a platelet α -granule protein. p745 11 May 1990.
 van Rood, Jon J. and Claas, Frans H. J.: The influence of allogeneic cells on the human T and B cell repertoire. p1388 15 June 1990.
 Vedvick, Thomas S. See Jay, Scott D.
 Vegter-Van der Vlis, M. See Van Broeckhoven, C.
 Vieira, Paulo. See Moore, Kevin W.
 Villarrubia, J. S. See Boland, John J.
 Viscusi, W. Kip. See Zeckhauser, Richard J.
 Vlasuk, George P. See Waxman, Lloyd.
 Volpp, Bryan D. See Leto, Thomas L.
 von Boehmer, Harald and Kisielow, Pawel: Self-nonsel discrimination by T cells. p1369 15 June 1990.

W-Z

Wakita, H. See Sakai, H.
 Walbot, Virginia. See Levy, Avraham A.
 Waldrop, M. Mitchell (news): Astro: the first and last of its kind? p1080 1 June 1990. Bittersweet findings. p817 18 May 1990. Fast, cheap, and out of control. p959 25 May 1990. Hubble trouble. p1600 29 June 1990. Learning to drink from a fire hose. p674 11 May 1990. The long, sad saga of Mount Graham. p1479 22 June 1990. Polymer chemists are having a ROMP. p304 20 Apr 1990. Purging cancer from the bone marrow. p816 18 May 1990. A safer way to make plastics. p816 18 May 1990. Seeing the unseeable. p1189 8 June 1990. Shrink-wrapped transplants for Parkinson's. p816 18 May 1990. Solar neutrino deficit confirmed? p1607 29 June 1990. Solar neutrino-sunspot connection found. p444 27 Apr 1990.
 Walstedt, R. E. and Warren, W. W., Jr.: Nuclear resonance properties of YBa₂Cu₃O_{6+x} superconductors. p1082 1 June 1990.
 Wang, Chung-Ho and Burnett, William C.: Holocene mean uplift rates across an active plate-collision boundary in Taiwan. p204 13 Apr 1990.
 Wang, Jean Y. J. See Kipreos, Edward T.
 Wang, X. D.; Han, Z. L.; Tonner, B. P.; Chen, Y.; Tong, S. Y.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1129 1 June 1990.
 Wang, Yanbin; Guyot, Francois; Yeganeh-Haeri, Amir; Liebermann, Robert C.: Twinning in MgSiO₃ perovskite. p468 27 Apr 1990.
 Wang, Yue Li. See Wu, Xian Liang.
 Ward, Pamela J. See Esch, Fred S.
 Warren, W. W., Jr. See Walstedt, R. E.
 Waters, A. P.: Malaria vaccines (letter). p422 27 Apr 1990.

- Watson, James D.: The Human Genome Project: past, present, and future. p44 6 Apr 1990.
- Watt, Ward B.: The decline of systematics: clarifying the causes (letter). p18 6 Apr 1990.
- Waxman, Lloyd; Smith, Donna E.; Arcuri, Karen E.; Vlasuk, George P.: Tick anticoagulant peptide (TAP) is a novel inhibitor of blood coagulation factor Xa. p593 4 May 1990.
- Weaver, Connie M. *See* Story, Jon A.
- Webb, S. David: review of *Frozen Fauna of the Mammoth Steppe*, by R. Dale Guthrie. p900 18 May 1990.
- Webb, Susan R. *See* Sprent, Jonathan.
- and Sprent, Jonathan: Induction of neonatal tolerance to Mls^a antigens by CD8⁺ T cells. p1643 29 June 1990.
- Webb, Watt W. *See* Denk, Winfried.
- Wedel, Andrew; Weiss, David S.; Popham, David; Dröge, Peter; Kustu, Sydney: A bacterial enhancer functions to tether a transcriptional activator near a promoter. p486 27 Apr 1990.
- Wehnert, A. *See* Van Broeckhoven, C.
- Wei, Aguan; Covarrubias, Manuel; Butler, Alice; Baker, Keith; Pak, Michael; Salkoff, Lawrence: K⁺ current diversity is produced by an extended gene family conserved in *Drosophila* and mouse. p599 4 May 1990.
- Weigel, Detlef; Jürgens, Gerd; Klingler, Martin; Jäckle, Herbert: Two gap genes mediate maternal terminal pattern information in *Drosophila*. p495 27 Apr 1990.
- Weikart, David P. *See* Schweinhart, Lawrence J.
- Weiner, Howard L. *See* Wucherpfenning, Kai W.
- Weis, John H.: Usefulness of the Human Genome Project (letter). p1595 29 June 1990.
- Weiss, David S. *See* Wedel, Andrew.
- Welch, William J. *See* Beckmann, Richard P.
- Wemmer, David. *See* Janes, Susan M.
- Wendorf, F. *See* Brooks, A. S.
- Werness, Bruce A.; Levine, Arnold J.; Howley, Peter M.: Association of human papillomavirus types 16 and 18 E6 proteins with p53. p76 6 Apr 1990.
- White, Warren H.: Cooling towers, not "smokestacks" (letter). p802 18 May 1990.
- Widmer, Michael B. *See* Fanslow, William C.
- Wilbur, Henry M.: review of *Alternative Life-History Styles of Animals*, edited by Michael N. Bruton. p750 11 May 1990.
- Williams, Evan R. and Zare, Richard N.: Detection of concealed explosives (letter). p1471 22 June 1990.
- Williams, Kelly P. *See* Herendeen, Daniel R.
- Williams, Mark E. *See* Jay, Scott D.
- Williams, Sarah (news): Better heart preservation. p166 13 Apr 1990.
- Cocaine's harmful effects. p166 13 Apr 1990.
- Identifying fossils by computer. p1080 1 June 1990.
- Neglected neurotoxicants. p958 25 May 1990.
- Tapping into nerve conversations. p555 4 May 1990.
- Williams, Timothy C.: review of *Flight Strategies of Migrating Hawks*, by Paul Kerlinger. p1429 15 June 1990.
- Wilson, Ian A. *See* Stanfield, Robyn L.
- Wilson, James M.; Ping, April Joy; Krauss, John C.; Mayo-Bond, Laura; Rogers, Clare E.; Anderson, Donald C.; Todd, Robert F., III: Correction of CD18-deficient lymphocytes by retrovirus-mediated gene transfer. p1413 15 June 1990.
- Wilson, Thomas P.: Light bending: prediction and theory (letter). p422 27 Apr 1990.
- Winston, Mark L.: review of *Ecology and Natural History of Tropical Bees*, by David W. Roubik. p1026 25 May 1990.
- Widsen, William. *See* Rusak, Benjamin.
- Wolf, Douglas A. *See* Mincy, Ronald B.
- Wolfman, Alan and Macara, Ian G.: A cytosolic protein catalyzes the release of GDP from p21^{ras}. p67 6 Apr 1990.
- Wolpe, Paul Root: Health care rationing (editorial). p645 11 May 1990.
- Wood, Bernard J.; Bryndzia, L. Taras; Johnson, Kathleen E.: Mantle oxidation state and its relationship to tectonic environment and fluid speciation. p337 20 Apr 1990.
- Woodruff, D. P.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1131 1 June 1990.
- Wright, John J.; Gunter, Kurt C.; Mitsuya, Hiroaki; Irving, Steven G.; Kelley, Kathleen; Siebenlist, Ulrich: Expression of a zinc finger gene in HTLV-I- and HTLV-II-transformed cells. p588 4 May 1990.
- Wright, Karen (news): Mycoplasmas in the AIDS spotlight. p682 11 May 1990.
- Wu, Xian Liang; Zhang, Zhe; Wang, Yue Li; Lieber, Charles M.: Structural and electronic role of lead in (PbBi)₂Sr₂CaCu₂O₈ superconductors by STM. p1211 8 June 1990.
- Wucherpfenning, Kai W.; Ota, Kohei; Endo, Noriaki; Seidman, J. G.; Rosenzweig, Anthony; Weiner, Howard L.; Hafler, David A.: Shared human T cell receptor V_β usage to immunodominant regions of myelin basic protein. p1016 25 May 1990.
- Wunsch, Carl: review of *El Niño, La Niña, and the Southern Oscillation*, by S. George Philander. p904 18 May 1990.
- Wyatt, Gail E. *See* Adler, Nancy E.
- Wyss, André R. *See* Berta, Annalisa.
- Yamada, Takuma; Takeuchi, Yutaka; Komori, Naoka; Kobayashi, Hisao; Sakai, Yutaka; Hotta, Yoshiki; Matsumoto, Hiroyuki: A 49-kilodalton phosphoprotein in the *Drosophila* photoreceptor is an arrestin homolog. p483 27 Apr 1990.
- Yamano, M. *See* Sakai, H.
- Yasumura, Douglas. *See* Uehara, Fumiyuki.
- Yeganeh-Haeri, Amir. *See* Wang, Yanbin.
- Ycomans, Donald K. *See* Ostro, Steven J.
- Yoshihara, Teruhiko. *See* Ae, Noriharu.
- Yost, C. Spencer. *See* Lopez, Charles D.
- Yotang, Helen J. and Stanton, Maureen L.: Influence of environmental quality on pollen competitive ability in wild radish. p1631 29 June 1990.
- Youvan, Douglas C. *See* Robles, Steven J.
- Yung, Yuk L.; Allen, Mark; Crisp, David; Zurek, Richard W.; Sander, Stanley P.: Spatial variation of ozone depletion rates in the springtime Antarctic polar vortex. p721 11 May 1990.
- Jackson, Saul. *See* Oberdick, John.
- Zalenskaya, Katya. *See* Kashlev, Mikhail.
- Zalutsky, Robert A. and Nicoll, Roger A.: Comparison of two forms of long-term potentiation in single hippocampal neurons. p1619 29 June 1990.
- Zanetti, Maurizio. *See* Lenert, Petar.
- Zare, Richard N. *See* Williams, Evan R.
- Zeckhauser, Richard J. and Viscusi, W. Kip: Risk within reason. p559 4 May 1990.
- Zenderland, Leila: review of *The Burt Affair*, by Robert B. Joynson. p884 18 May 1990.
- Zhang, Zhe. *See* Wu, Xian Liang.
- Zhou, Jing. *See* Barker, David F.
- Zhou, Qiang. *See* Kao, C. Cheng.
- Zigler, Edward: Research support for Head Start (letter). p1176 8 June 1990.
- Zilberstein, A. *See* Margolis, B.
- Zorumski, Charles. *See* Olney, John W.
- Zreda, Marek G. *See* Phillips, Fred M.
- Zubelli, Jorge Passamani. *See* Singer, J. R.
- Zucker, Martin S. *See* Fetter, Steve.
- Zurek, Richard W. *See* Yung, Yuk L.
- Zurek, Wojciech H.: review of *The Emperor's New Mind*, by Roger Penrose. p880 18 May 1990.
- Zwally, H. Jay; Brenner, Anita C.; Major, Judy A.; Bindshadler, Robert A.; Marsh, James G.: Greenland ice sheet: is it growing or shrinking? (letter). p288 20 Apr 1990.