
SCIENCE

Author Index to Volume 204

April-June 1979

Editorial Board

RICHARD E. BALZHISER
WALLACE S. BROECKER
E. PETER GEIDUSCHEK
WARD GOODENOUGH
N. BRUCE HANNAY
MARTIN J. KLEIN
FRANKLIN A. LONG
CLEMENT L. MARKERT

NEAL E. MILLER
FRANK W. PUTNAM
BRYANT W. ROSSITER
VERA C. RUBIN
MAXINE F. SINGER
PAUL E. WAGGONER
F. KARL WILLENBROCK
JEFFREY J. WINE

WILLIAM D. CAREY
Publisher

HANS NUSSBAUM
Business Manager

PHILIP H. ABELSON
Editor

EARL J. SCHERAGO, *Advertising Director*

Published by the

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW, Washington, D.C. 20005

Printed in Richmond, Virginia, by William Byrd Press

Copyright 1979 by the American Association for the Advancement of Science

A

- Aaronson, Stuart A. See Andersen, Philip R.
 Abelson, Philip H. (editorials): Bio-energy. v204 p1161 15 June 79. Energy conservation. v204 p695 18 May 79. Mission to Jupiter and satellites. v204 p911 1 June 79. President Carter's energy speech. v204 p369 27 Apr 79. Problems of science faculties. v204 p133 13 Apr 79.
 Acuna, Mario H. See Ness, Norman F.
 Adler, Norman T. See Weber, Anita L.
 Adler, R.; Landa, K. B.; Manthorpe, M.; Varon, S.: Cholinergic neuronotrophic factors: intraocular distribution of trophic activity for ciliary neurons. v204 p1434-1436 29 June 79.
 Ajello, M. M. See Broadfoot, A. L.
 Alberte, Randall S.: review of *The Plastids*, by John T. O. Kirk and Richard A. E. Tilney-Bassett. v204 p941-942 1 June 79.
 Alexander, J. K. See Warwick, J. W.
 Alexandrova, Maria. See Soloff, Melvyn S.
 Ames, Bruce N.: Identifying environmental chemicals causing mutations and cancer. v204 p587-593 11 May 79.
 Andersen, Philip R.; Barbacid, Mariano; Tronick, Steven R.; Clark, H. Fred; Aaronson, Stuart A.: Evolutionary relatedness of viper and primate endogenous retroviruses. v204 p318-321 20 Apr 79.
 Anderson, C. M.; Zucker, F. H.; Steitz, T. A.: Space-filling models of kinase clefts and conformation changes. v204 p375-380 27 Apr 79.
 Anderson, C. William. See Heineman, William R.
 Anderson, Don L.: review of *Tidal Friction and the Earth's Rotation*, edited by P. Brosche and J. Sündermann. v204 p1074-1075 8 June 79.
 Anderson, J. D. See Eshleman, V. R.
 Anderson, John F.; Magnarelli, Louis A.; Donner, Christopher S.; Spielman, Andrew; Piesman, Joseph: Canine *Babesia* new to North America. v204 p1431-1432 29 June 79.
 Anderson, Roger N.; Hobart, Michael A.; Langseth, Marcus G.: Geothermal convection through oceanic crust and sediments in the Indian Ocean. v204 p828-832 25 May 79.
 Angervall, Lennart. See Johansson, Sonny.
 Arai, Satoaki F. See Cohen, David.
 Armitage, Roseanne. See Klein, Raymond.
 Armstrong, T. P. See Krimigis, S. M.
 Arvidson, Raymond E. See Jones, Kenneth L.
 Atreya, S. K. See Broadfoot, A. L.
 Axelrod, Julius. See Strittmatter, Warren J.
 Axford, W. I. See Krimigis, S. M.
- B**
- Backman, D. E. See Terrile, Richard J.
 Bagenal, F. See Bridge, H. S.
 Bailey, Ernest; Stormont, Clyde; Suzuki, Yoshiko; Trommershausen-Smith, Ann: Linkage of loci controlling alloantigens on red blood cells and lymphocytes in the horse. v204 p1317-1319 22 June 79.
 Balish, Edward. See Witter, James P.
 Barbacid, Mariano. See Andersen, Philip R.
 Basford, D. See Sweeney, G. D.
 Batra, Suzanne W. T. See Hefetz, Abraham.
 Bauer, Christian H.: Human serum fucosyltransferase and tumor therapy (technical comment). v204 p647 11 May 79.
 Beal, R. C. See Gonzalez, F. I.
 Becklin, E. E. See Terrile, Richard J.
 Beebe, Reta F. See Smith, Bradford A.
 Beebe, Reta F. See Terrile, Richard J.
 Beecher, Michael D. See Zoloth, Stephen R.
 Behannon, Kenneth W. See Ness, Norman F.
 Beichman, C. A. See Terrile, Richard J.
 Belcher, J. W. See Bridge, H. S.
 Bell, Adrian: review of *Tropical Trees and Forests*, by F. Hallé, R. A. A. Oldeman, and P. B. Tomlinson. v204 p756-758 18 May 79.
 Bellisle, France. See Beninger, Richard J.
 Belton, M. J. S. See Broadfoot, A. L.
 Beninger, Richard J.; Bellisle, France; Milner, Peter M.: Brain stimulation reinforcement: implications of an electrode artifact (technical comment). v204 p1236-1237 15 June 79.
 Bennett, M. V. L. See Spray, D. C.
 Bennett, Michael J. See Smith, Earl L., III.
 Benton, Charles V. See Rabin, Harvey.
 Berenson, G. S. See Voors, A. W.
 Berger, Martin and Cooper, Martin J.: The cost of R & D living (editorial). v204 p1369 29 June 79.
 Berger, Ralph J. See Walker, James M.
 Bergland, Richard M. and Page, Robert B.: Pituitary-brain vascular relations: a new paradigm. v204 p18-24 6 Apr 79.
 Bern, Howard A. See Marshall, William S.
 Bernstein, R. L. See Lipes, R. G.
 Bertaux, J. L. See Broadfoot, A. L.
 Besch, Norma F. See Smith, Roy G.
 Besch, Paige K. See Smith, Roy G.
 Bevan, John A.: Sites of transition between functional systemic and cerebral arteries of rabbits occur at embryological junctional sites. v204 p635-637 11 May 79.
 Bierl-Leonhardt, B. A. See Klun, J. A.
 Bird, Edward D.; Spokes, Ernest G.; Iversen, Leslie L.: Brain norepinephrine and dopamine in schizophrenia (technical comment). v204 p93-94 6 Apr 79.
 Birky, C. William, Jr.: review of *Organelle Heredity*, by Nicholas W. Gillham. v204 p761 18 May 79.
 Bjorklund, Anders. See Kromer, Lawrence F.
 Black, P. G. See Jones, W. Linwood.
 Blackwelder, Blake W.; Pilkey, Orrin H.; Howard, James D.: Late Wisconsinan sea levels on the southeast U.S. Atlantic shelf based on in-place shoreline indicators. v204 p618-620 11 May 79.
 Blamont, J. E. See Broadfoot, A. L.
 Blix, Arnoldus S. See Grav, Hans J.
 Bloch, Maurice: review of *Scale and Social Organization*, by Burg Wartenstein. v204 p734-735 18 May 79.
 Boass, Agna. See Pike, J. Welsey.
 Boggs, D. M. See Jones, W. Linwood.
 Boisshot, A. See Warwick, J. W.
 Bolles, Robert C.: review of *Particulars of My Life*, by B. F. Skinner, and *The Shaping of a Behaviorist*, by B. F. Skinner. v204 p1073-1074 8 June 79.
 Bonaccorsi, Silvia. See Prantera, Giorgio.
 Bonner, William M. See Filipski, Jan.
 Boone, Charles W.; Takeichi, Noritoshi; Eaton, Sol Del Ande; Paranjpe, Meera: "Spontaneous" neoplastic transformation in vitro: a form of foreign body (smooth surface) tumorigenesis. v204 p177-179 13 Apr 79.
 Boriakoff, V. See Campbell, D. B.
 Born, G. H.; Dunne, L. A.; Lame, D. B.: Seasat Mission overview. v204 p1405-1406 29 June 79.
 Born, G. H. See Tapley, B. D.
 Bostrom, C. O. See Krimigis, S. M.
 Boter, Henk L. See Verweij, Albert.
 Botkin, D. B. See Woodwell, G. M.
 Bourque, Don P. See Johal, Sarjit.
 Boyce, Joseph. See Smith, Bradford A.
 Boyd, Carl M. See Mackas, David L.
 Boyse, Edward A. See Goldstein, Gideon.
 Bracaente, E. M. See Jones, W. Linwood.
 Bragg, Susan L. See Jones, Kenneth L.
 Brain, Joseph D. See Cohen, David.
 Brehm, Jack: review of *The Hidden Costs of Reward*, edited by Mark R. Lepper and David Greene. v204 p728-729 18 May 79.
 Briant, Jacqueline L. See Farrington, Gregory.
 Bridge, H. S.; Belcher, J. W.; Lazarus, A. J.; Sullivan, J. D.; McNutt, R. L.; Bagenal, F.; Scudder, J. D.; Sittler, E. C.; Siscoe, G. L.; Vasyliunas, V. M.; Goertz, C. K.; Yeates, C. W.: Plasma observations near Jupiter: initial results from Voyager 1. v204 p987-991 1 June 79.
 Briggs, Geoffrey A. See Smith, Bradford A.
 Britten, Roy J. See Davidson, Eric H.
 Broad, William J. (news and comment): Barons of electric power hold pep talk. v204 p390 27 Apr 79. Himalayan spy device said to pose no radiation risk. v204 p1180 15 June 79. Jump in funding feeds research on nutrition. v204 p1060-1061, 1063-1064 8 June 79. NIH deals gingerly with diet-disease link. v204 p1175-1178 15 June 79. Rival centennial casts new light on Edison. v204 p32-36 6 Apr 79. Rubber bible turns 60. v204 p1181 15 June 79. Science museums planned for pushing industry line. v204 p1180-1181 15 June 79.
 Broadfoot, A. L.; Belton, M. J. S.; Takacs, P. Z.; Sandel, B. R.; Shemansky, D. E.; Holberg, J. B.; Ajello, M. M.; Atreya, S. K.; Donahue, T. M.; Moos, H. W.; Bertaux, J. L.; Blamont, J. E.; Strobel, D. F.; McConnell, J. C.; Dalgarno, A.; Goody, R.; McElroy, M. B.: Extreme ultraviolet observations from Voyager 1 encounter with Jupiter. v204 p979-982 1 June 79.
 Brobeck, John. See Kleinzeller, Arnost.
 Bromberg, Joan: review of *Scientists in Power*, by Spencer R. Weart. v204 p741-742 18 May 79.
 Bronstein, Daniel E.: Three Mile Island (letter). v204 p794-795 25 May 79.
 Brower, Lincoln P. See Calvert, William H.
 Brown, J. W.; Clevon, G. C.; Klose, J. C.; Lame, D. B.; Yamarone, C. A.: Seasat low-rate data system. v204 p1407-1408 29 June 79.
 Brown, Mark J. See Saida, Takahiko.
 Brown, R. A. See Jones, W. Linwood.
 Brown, R. H. See Terrile, Richard J.
 Brown, W. E. See Gonzalez, F. I.
 Brownell, Philip and Mayeri, Earl: Prolonged inhibition of neurons by neuroendocrine cells in *Aplysia*. v204 p417-420 27 Apr 79.
 Buddemeier, R. W. See Smith, S. V.
 Burchfiel, James L.; Duchowny, Michael S.; Duffy, Frank H.: Neuronal supersensitivity to acetylcholine induced by kindling in the rat hippocampus. v204 p1096-1098 8 June 79.
 Burger, William C.: review of *Flora of Barro Colorado Island*, by Thomas B. Croat. v204 p758-759 18 May 79.
 Burke, Bernard: The quiet shops of academe (editorial). v204 p1041 8 June 79.
 Burlaga, Leonard F. See Ness, Norman F.
 Burns, B. A. See Campbell, D. B.
 Burrows, M.: Synaptic potentials effect the release of transmitter from locust nonspiking interneurons. v204 p81-83 6 Apr 79.
 Burwell, C. C.; Ohanian, M. J.; Weinberg, A. M.: A siting policy for an acceptable nuclear future. v204 p1043-1051 8 June 79.
 Butler, Robert F. See Marshall, Larry G.
 Byrne, H. M. See Tapley, B. D.
- C**
- Callis, Linwood B.; Natarajan, Murali; Nealy, John E.: Ozone and temperature trends associated with the 11-year solar cycle. v204 p1303-1306 22 June 79.
 Calne, D. B. See Lovenberg, W.
 Calvert, William H.; Hedrick, Lee E.; Brower, Lincoln P.: Mortality of the monarch butterfly (*Danaus plexippus* L.): avian predation at five overwintering sites in Mexico. v204 p847-851 25 May 79.
 Campbell, D. B.; Burns, B. A.; Boriakoff, V.: Venus: further evidence of impact cratering and tectonic activity from radar observations. v204 p1424-1427 29 June 79.
 Campbell, Neil A.; Stika, Katherine M.; Morrison, George H.: Calcium and potassium in the motor organ of the sensitive plant: localization by ion microscopy. v204 p185-187 13 Apr 79.
 Cantacuzene, Daniele; Kirk, Kenneth L.; McCulloh, David H.; Craveling, Cyrus R.: Effect of fluorine substitution on the agonist specificity of norepinephrine. v204 p1217-1219 15 June 79.
 Cantor, Michael B.: Brain stimulation reinforcement: implications of an electrode artifact (technical comment). v204 p1235-1236 15 June 79.
 Capps, R. W. See Terrile, Richard J.
 Caputo, Richard: Energy: calculating the risks (letter). v204 p454 4 May 79.
 Carbary, J. F. See Krimigis, S. M.
 Cardellina, John H., II; Marner, Franz-Josef; Moore, Richard E.: Seaweed dermatitis:

- structure of lyngbyatoxin A. v204 p193-195 13 Apr 79.
- Cardone, V. J. See Lipes, R. G.
- Carey, Martin C. See Patton, John S.
- Carey, William D. (editorials): Science and public understanding. v204 p797 25 May 79. Science policy in Washington. v204 p259 20 Apr 79.
- Carlen, P. L.; Wilkinson, D. A.; Holgate, R.; Wortzman, G.: Computed tomography scans of alcoholics: cerebral atrophy? (technical comment). v204 p1238 15 June 79.
- Carlston, Carl E. See Jones, Kenneth L.
- Carr, Michael H. See Smith, Bradford A.
- Carr, T. D. See Warwick, J. W.
- Carter, Luther J. (news and comment): Carter energy proposals are in trouble. v204 p282 20 Apr 79. Creationists sue to ban museum evolution exhibits. v204 p925 1 June 79. DNR given up as a loser, citizen support lacking. v204 p924 1 June 79. How to assess cancer risks. v204 p811, 813, 815-816 25 May 79. The "movement" moves on to antinuclear protest. v204 p715 18 May 79. A new and searching look at NSF. v204 p1064-1065 8 June 79. Political fallout from Three Mile Island. v204 p154-155 13 Apr 79. Teddy Roosevelt's name invoked in Alaska vote. v204 p925 1 June 79. Uncontrolled SO₂ emissions bring acid rain. v204 p1179-1182 15 June 79.
- Cartwright, K. See Harris, H. J. H.
- Caruso, Thomas P.; Takemori, A. E.; Larson, Dennis L.; Portoghesi, Philip S.: Chloroxymorphamine, an opioid receptor site-directed alkylating agent having narcotic agonist activity. v204 p316-318 20 Apr 79.
- Case, Susan M. See Cherry, Lorraine M.
- Cassidy, Paul S. See Hoar, Phyllis E.
- Cederbaum, Arthur I. See Cohen, Gerald.
- Chapman, O. L. See Klun, J. A.
- Chapman, Robert H.; Klekowski, Edward J., Jr.; Selander, Robert K.: Homoeologous heterozygosity and recombination in the fern *Pteridium aquilinum*. v204 p1207-1209 15 June 79.
- Chen, Kevin and Sand, Seaward A.: *Nicotiana* chromosome coding for a specific polypeptide of the small subunit of fraction 1 protein. v204 p179-180 13 Apr 79.
- Cherry, Lorraine M.; Case, Susan M.; Kunkel, Joseph G.; Wilson, Allan C.: Comparisons of frogs, humans, and chimpanzees (technical comment). v204 p435 27 Apr 79.
- Chirikjian, Jack G. See Kantor, Judith A.
- Chorev, Michael; Shavitz, Rick; Goodman, Murray; Minick, Scott; Guillemin, Roger: Partially modified retro-inverso-enkephalinamides: topochemical long-acting analogs in vitro and in vivo. v204 p1210-1212 15 June 79.
- Chrisp, C. E. See Fisher, G. L.
- Churchill, Frederick B.: review of *The Genesis of Cancer*, by L. J. Rafter. v204 p1191-1192 15 June 79.
- Clark, Charles G.: College entrance standards (letter). v204 p1264 22 June 79.
- Clark, H. Fred. See Andersen, Philip R.
- Clark, James H. See McCormack, Shirley.
- Clark, Noel A. See Rothschild, Kenneth J.
- Clark, Robert L. and Steck, Theodore L.: Morphogenesis in *Dictyostelium*: an orbital hypothesis. v204 p1163-1168 15 June 79.
- Clawson, Marion: Forests in the long sweep of American history. v204 p1168-1174 15 June 79.
- Cleveland, William S. and Graedel, T. E.: Photochemical air pollution in the northeast United States. v204 p1273-1278 22 June 79.
- Cleven, G. C. See Brown, J. W.
- Coe, Michael D.: review of *Pre-Hispanic Maya Agriculture*, edited by Peter D. Harrison and B. L. Turner II. v204 p739-740 18 May 79.
- Cogan, Bruce C.: Efficiency of convection in variable stars and the sun. v204 p1078-1079 8 June 79.
- Cohen, David; Arai, Satoaki F.; Brain, Joseph D.: Smoking impairs long-term dust clearance from the lung. v204 p514-517 4 May 79.
- Cohen, Gerald and Cederbaum, Arthur I.: Chemical evidence for production of hydroxyl radicals during microsomal electron transfer. v204 p66-68 6 Apr 79.
- Cole, F. M. See Sweeney, G. D.
- Coleman, P. J., Jr. See Hood, L. L.
- Collins, B. A. See Levine, J. S.
- Collins, Stewart A. See Morabito, L. A.
- Collins, Stewart A. See Smith, Bradford A.
- Conlon, T. See Vogt, R. E.
- Connell, J. H.: Intermediate-disturbance hypothesis (technical comment). v204 p1345 22 June 79.
- Connolly, Raymond. See Hughes, Walter L.
- Conrath, B. See Hanel, R.
- Cook, Allan F., II. See Smith, Bradford A.
- Cook, Philip M. and Olson, Gayle F.: Ingested mineral fibers: elimination in human urine. v204 p195-198 13 Apr 79.
- Cook, W. R. See Vogt, R. E.
- Cooke, Robert C. See Kepkay, Paul E.
- Coons, R. E. See Wilkerson, J. C.
- Cooper, Martin J. See Berger, Martin.
- Corruccini, Robert S. and McHenry, Henry M.: Morphological affinities of *Pan paniscus*. v204 p1341-1343 22 June 79.
- Corson, D. Wesley. See Fein, Alan.
- Cranefield, Paul F. and Weidmann, Silvio: Kovalev's health (letter). v204 p124 13 Apr 79.
- Crawford, M. L. J. See Smith, Earl L., III.
- Creveling, Cyrus R. See Cantacuzene, Daniele.
- Crick, F. H. C. See Prunell, A.
- Crick, Francis: Split genes and RNA splicing. v204 p264-271 20 Apr 79.
- Croffli, Joseph and Kandel, Gillray L.: Laterality of stereognostic accuracy of children for words, shapes, and bigrams: a sex difference for bigrams. v204 p1432-1434 29 June 79.
- Croft, T. A. See Eshleman, V. R.
- Cronan, Christopher S. and Schofield, Carl L.: Aluminum leaching response to acid precipitation: effects on high-elevation watersheds in the Northeast. v204 p304-306 20 Apr 79.
- Cruikshank, D. P. See Terrile, Richard J.
- Culliton, Barbara J. (news and comment): Changes in ethics act benefit scientists. v204 p599-601 11 May 79. President Carter addresses national academy. v204 p480-481 4 May 79.
- Cummings, A. C. See Vogt, R. E.
- Curtis, Garniss H. See Marshall, Larry G.

D

- Dalferes, E. R. See Voors, A. W.
- Dalgarno, A. See Broadfoot, A. L.
- Daniels, Robert S.: Medical school facilities in Cincinnati (letter). v204 p124 13 Apr 79.
- Danielson, G. Edward. See Smith, Bradford A.
- Dardik, Beatriz N. See Shainoff, John R.
- Davenport, Demorest and Foley, John M.: Fringe benefits of cataract surgery (letter). v204 p454, 456-457 4 May 79.
- Davidson, Eric H. and Britten, Roy J.: Regulation of gene expression: possible role of repetitive sequences. v204 p1052-1059 8 June 79.
- Davidson, Julian M.: review of *Pioneers in Neuroendocrinology II*, edited by Joseph Meites, Bernard T. Donovan, and Samuel M. McCann. v204 p294 20 Apr 79.
- Davie, Joseph M. See Lacy, Paul E.
- Davies, Merton E. See Smith, Bradford A.
- Davis, Audrey B.: review of *A History of Microtechnique*, by Brian Bracegirdle. v204 p748-749 18 May 79.
- Davis, Esker K. See Edelson, Robert E.
- Davis, Richard S.: review of *The Prehistory and Palaeogeography of the Great Indian Desert*, by Bridget Allchin, Andrew Goudie, and Karunarkara Hegde. v204 p295 20 Apr 79.
- De Toledo-Morrell, Leyla; Hoepfner, Thomas J.; Morrell, Frank: Conditioned inhibition:

- selective response of single units. v204 p528-530 4 May 79.
- Deck, John H. N. See Farley, Irene J.
- Degenhardt, Carla E. A. See Verweij, Albert.
- DeLeonibus, P. S. See Gonzalez, F. I.
- DeLuca, H. F. See Halloran, B. P.
- Delwiche, C. C. See Woodwell, G. M.
- DeNiro, Michael J. and Epstein, Samuel: Relationship between the oxygen isotope ratios of terrestrial plant cellulose, carbon dioxide, and water. v204 p51-53 6 Apr 79.
- Desch, M. D. See Warwick, J. W.
- Dewan, Edmond M.: Stratospheric wave spectra resembling turbulence. v204 p832-835 25 May 79.
- Diamante, J. M. See Tapley, B. D.
- Diamond, Leila. See Rovera, Giovanni.
- Diamond, Rhea. See Hein, Alan.
- Dibner, Mark D. See Minneman, Kenneth P.
- Dillehay, Tom D.: Pre-Hispanic resource sharing in the Central Andes. v204 p24-31 6 Apr 79.
- DiMicco, Joseph A.; Gale, Karen; Hamilton, Betty; Gillis, Richard A.: GABA receptor control of parasympathetic outflow to heart: characterization and brainstem localization. v204 p1106-1109 8 June 79.
- Dingle, Hugh: review of *The Evolutionary Ecology of Animal Migration*, by R. R. Baker. v204 p609-610 11 May 79.
- DiRocco, Richard J. and Grill, Harvey J.: The forebrain is not essential for sympathoadrenal hyperglycemic response to glucoprivation. v204 p1112-1114 8 June 79.
- Dmitriev, Yuri. See Natland, James H.
- Dolan, Robert; Hayden, Bruce; Jones, Conrad: Barrier island configuration. v204 p401-403 27 Apr 79.
- Dome, G. See Jones, W. Linwood.
- Domoter, Joseph J., Jr. See Ihle, James N.
- Donahue, T. M. See Broadfoot, A. L.
- Donner, Christopher S. See Anderson, John F.
- Dorfman, Donald D.: Burt's tables (letter). v204 p246-254 20 Apr 79.
- Dorfman, Susan H. See Saida, Takahiko.
- Douglas, B. C. See Tapley, B. D.
- Drake, Robert E. See Marshall, Larry G.
- Drewett, R. F. See Kendrick, K. M.
- Drucker, Peter F.: Science and industry, challenges of antagonistic interdependence. v204 p806-810 25 May 79.
- Du Pasquier, Pierre. See Dufy, Bernard.
- Duchowny, Michael S. See Burchfiel, James L.
- Duffy, Frank H. See Burchfiel, James L.
- Duffy, P. B. See Wilcox, J. M.
- Duffy, Thomas E. See Pulsinelli, William A.
- Dufy, Bernard; Vincent, Jean-Didier; Fleury, Hervé; Du Pasquier, Pierre; Gouroji, Danielle; Tixier-Vidal, Andrée: Membrane effects of thyrotropin-releasing hormone and estrogen shown by intracellular recording from pituitary cells. v204 p509-511 4 May 79.
- Duncan, Helen. See Morse, Daniel E.
- Dunne, L. A. See Born, G. H.

E

- Easland, Gene S. See Wasserman, Gerald S.
- Eaton, Sol Del Ande. See Boone, Charles W.
- Eberhard, William G.: review of *Arachnology*, edited by P. Merrett. v204 p399 27 Apr 79.
- Ebert, M. See Lovenberg, W.
- Edelson, Robert E.; Madsen, Boyd D.; Davis, Esker K.; Garrison, Glenn W.: Voyager telecommunications: the broadcast from Jupiter. v204 p913-921 1 June 79.
- Emami, Bahman. See Hughes, Walter L.
- Endal, A. S. See Sofia, S.
- Epstein, Samuel. See DeNiro, Michael J.
- Erickson, G. F. See Hsueh, A. J. W.
- Ernst, J. A. See Jones, W. Linwood.
- Eshleman, V. R.; Tyler, G. L.; Wood, G. E.; Lindal, G. F.; Anderson, J. D.; Levy, G. S.; Croft, T. A.: Radio science with Voyager 1 at Jupiter: preliminary profiles of the atmo-

sphere and ionosphere. v204 p976-978 1 June 79.
 Estrup, Peder J.: review of *Topics in Surface Chemistry*, edited by Eric Kay and Paul S. Bagus. v204 p943-944 1 June 79.

F

Fahnestock, George R.: Carbon input to the atmosphere from forest fires (technical comment). v204 p209-210 13 Apr 79.
 Fakundiny, Robert H.: Misplaced nuclear plant (letter). v204 p367 27 Apr 79.
 Fales, Henry M. See Hefetz, Abraham.
 Fan, C. Y. See Krimigis, S. M.
 Farley, Irene J.; Price, Kathleen S.; McCullough, Edward; Deck, John H. N.; Hordynski, Walter; Hornykiewicz, Oleh: Brain norepinephrine and dopamine in schizophrenia (technical comment). v204 p94 6 Apr 79.
 Farnsworth, Patricia. See Spector, Abraham.
 Farrington, Gregory C. and Briant, Jacqueline L.: Fast ionic transport in solids. v204 p1371-1379 29 June 79.
 Faulkner, John A. See Gorniak, Gerard C.
 Fedor, L. S. See Tapley, B. D.
 Fein, Alan and Corson, D. Wesley: Both photons and fluoride ions excite *Limulus* ventral photoreceptors. v204 p77-79 6 Apr 79.
 Feller, William F. See Kantor, Judith A.
 Felsten, Gary. See Wasserman, Gerald S.
 Ferek, Jacquelyn M. See Mactutus, Charles F.
 Fernstrom, Martha J. See Soloff, Melvyn S.
 Ferrendelli, James A. See Herbst, Timothy J.
 Fibiger, H. C. See Mason, S. T.
 Filipiski, Jan; Kohn, Kurt W.; Prather, Richard; Bonner, William M.: Thiourea reverses cross-links and restores biological activity in DNA treated with dichlorodiaminoplatinum(II). v204 p181-183 13 Apr 79.
 Findley, James S.: Comparisons of frogs, humans, and chimpanzees (technical comment). v204 p434-435 27 Apr 79.
 Finke, Edward H. See Lacy, Paul E.
 Finkel, Marion J.: Phenformin ban (letter). v204 p242 20 Apr 79.
 Finstein, M. S.: Composting hazardous wastes (letter). v204 p1366 29 June 79.
 Fisher, David A. See Walker, Peter.
 Fisher, Delbert A. See Walker, Peter.
 Fisher, G. L.; Chrisp, C. E.; Raabe, O. G.: Physical factors affecting the mutagenicity of fly ash from a coal-fired power plant. v204 p879-881 25 May 79.
 Fishman, Jack; Fukushima, David K.; O'Connor, John; Lynch, Henry T.: Low urinary estrogen glucuronides in women at risk for familial breast cancer. v204 p1089-1091 8 June 79.
 Flasar, M. See Hanel, R.
 Fleming, Stuart: review of *Archaeological Chemistry-II*, edited by Giles F. Carter. v204 p749-750 18 May 79.
 Fletcher, Laraine A. See Folan, William J.
 Fleury, Hervé. See Dufy, Bernard.
 Flores, Edmundo: Mexico's program for science and technology, 1978 to 1982. v204 p1279-1282 22 June 79.
 Fodor, Ronald V. See Natland, James H.
 Folan, William J.; Fletcher, Laraine A.; Kintz, Ellen R.: Fruit, fiber, bark, and resin: social organization of a Maya urban center. v204 p697-701 18 May 79.
 Foley, John M. See Davenport, Demorest.
 Fordham, Christopher C., III: Public policy and health manpower (editorial). v204 p459 4 May 79.
 Forster, Robert E. See Kleinzeller, Arnost.
 Forsyth, James M. See Frankel, Robert D.
 Foulds, Marion M. See Spencer, Peter S.
 Fowley, G. R.: Vapor phase explosions: elementary detonations? v204 p168-169 13 Apr 79.
 Fox, Cecil H.: Medical exchanges (letter). v204 p688 18 May 79.
 Fox, John F.: Intermediate-disturbance hypothesis (technical comment). v204 p1344-1345 22 June 79.

Fox, Thomas O. See Vito, Christine C.
 Frankel, Robert D. and Forsyth, James M.: Nanosecond x-ray diffraction from biological samples with a laser-produced plasma source. v204 p622-624 11 May 79.
 Franklin, J. F. See Waring, R. H.
 Freed, William J. See Perlow, Mark J.
 Freeman, Gary: review of *Mechanisms of Cell Change*, edited by James D. Ebert and Tokindo S. Okada. v204 p399 27 Apr 79.
 Friedel, Robert: review of *A Streak of Luck*, by Robert Conot. v204 p746-747 18 May 79.
 Friedlander, Michael J.; Lin, C. S.; Sherman, S. Murray: Structure of physiologically identified X and Y cells in the cat's lateral geniculate nucleus. v204 p1114-1117 8 June 79.
 Fries, James F. See Loftus, Elizabeth F.
 Fujimoto, Yoshinori. See Ikekawa, Nobuo.
 Fukushima, David K. See Fishman, Jack.

G

Gale, Karen. See DiMicco, Joseph A.
 Galin, David; Johnstone, Jack; Nakell, Linda; Herron, Jeannine: Development of the capacity for tactile information transfer between hemispheres in normal children. v204 p1330-1332 22 June 79.
 Gans, Carl. See Gorniak, Gerard C.
 Garber, Ann. See Walker, James M.
 Garner, Margaret H. See Spector, Abraham.
 Garner, William H. See Spector, Abraham.
 Garrard, T. L. See Vogt, R. E.
 Garrison, Glenn W. See Edelson, Robert E.
 Gart, John J. and Schneiderman, Marvin A.: "Low-risk" cigarettes: the debate continues (letter). v204 p688-690 18 May 79.
 Gatley, S. John. See Witter, James P.
 Gautier, D. See Hanel, R.
 Gehrels, N. See Vogt, R. E.
 Gern, William A. and Ralph, Charles L.: Melatonin synthesis by the retina. v204 p183-184 13 Apr 79.
 Gershfeld, Norman L.: Selective phospholipid adsorption and atherosclerosis. v204 p506-508 4 May 79.
 Geschwind, Norman. See Swadlow, Harvey A.
 Gessa, G. L.; Paglietti, E.; Quarantotti, B. P.: Induction of copulatory behavior in sexually inactive rats by naloxone. v204 p203-205 13 Apr 79.
 Gest, Howard. See Madigan, Michael T.
 Gierasch, P. See Hanel, R.
 Gil-Ave, E. See Hare, P. E.
 Gilden, Raymond V. See Rabin, Harvey.
 Gillie, Oliver: Burt's missing ladies (letter). v204 p1035-1039 8 June 79.
 Gillis, Richard A. See DiMicco, Joseph A.
 Gloeckler, G. See Krimigis, S. M.
 Goad, C. C. See Tapley, B. D.
 Goertz, C. K. See Bridge, H. S.
 Gold, Thomas and Soter, Steven: Brontides: natural explosive noises. v204 p371-375 27 Apr 79.
 Goldner, Martin G.: Diabetes drugs: clinical trial (letter). v204 p363-367 27 Apr 79.
 Goldstein, Gideon; Scheid, Margrit P.; Boyse, Edward A.; Schlesinger, David H.; Van Wauwe, Jean: A synthetic pentapeptide with biological activity characteristic of the thymic hormone thymopoietin. v204 p1309-1310 22 June 79.
 Goll, Robert M. See Natland, James H.
 Gonzalez, F. I.; Beal, R. C.; Brown, W. E.; DeLeonibus, P. S.; Sherman, J. W., III; Gower, J. F. R.; Lichy, D.; Ross, D. B.; Rufenach, C. L.; Shuchman, R. A.: Seasat synthetic aperture radar: ocean wave detection capabilities. v204 p1418-1421 29 June 79.
 Goodman, Corey S.; O'Shea, Michael; McCaman, Richard; Spitzer, Nicholas C.: Embryonic development of identified neurons: temporal pattern of morphological and biochemical differentiation. v204 p1219-1222 15 June 79.
 Goodman, Murray. See Chorev, Michael.
 Goody, R. See Broadfoot, A. L.

Gordon, Barbara; Presson, Joelle; Packwood, James; Scheer, Robert: Alternation of cortical orientation selectivity: importance of asymmetric input. v204 p1109-1111 8 June 79.
 Gori, Gio B.: "Low-risk" cigarettes: the debate continues (letter). v204 p690-692 18 May 79.
 Gorniak, Gerard C.; Gans, Carl; Faulkner, John A.: Muscle fiber regeneration after transplantation: prediction of structure and physiology from electromyograms. v204 p1085-1087 8 June 79.
 Gosz, James R. See Vitousek, Peter M.
 Gould, Jay E.: Commissural transmission in humans (technical comment). v204 p531 4 May 79.
 Gould, Richard A.: review of *Nunamiut Ethnoarchaeology*, by Lewis R. Binford. v204 p737-739 18 May 79.
 Gouroji, Danielle. See Dufy, Bernard.
 Gower, J. F. R. See Gonzalez, F. I.
 Graedel, T. E. See Cleveland, William S.
 Graham, J. B. and Istock, C. A.: Gene exchange and natural selection cause *Bacillus subtilis* to evolve in soil culture. v204 p637-639 11 May 79.
 Grav, Hans J. and Blix, Arnoldus S.: A source of nonshivering thermogenesis in fur seal skeletal muscle. v204 p87-89 6 Apr 79.
 Gray, T. Kenney; Lester, Gayle E.; Lorenc, Roman S.: Evidence for extra-renal 1 α -hydroxylation of 25-hydroxyvitamin D₃ in pregnancy. v204 p1311-1313 22 June 79.
 Graziadei, P. P. C.: review of *Octopus*, by M. J. Wells. v204 p492-493 4 May 79.
 Green, Steven. See Zoloth, Stephen R.
 Grier, Charles C. See Vitousek, Peter M.
 Grill, Harvey J. See DiRocco, Richard J.
 Grobstein, Clifford: Food safety report (letter). v204 p908 1 June 79.
 Grove, Gary. See Harper, Robert A.
 Grover, P. L.: review of *Polycyclic Hydrocarbons and Cancer*, edited by Harry V. Gelboin and Paul O. P. Ts'o. v204 p1301 22 June 79.
 Guillemin, Roger. See Chorev, Michael.
 Guinness, Edward A. See Jones, Kenneth L.
 Gulkis, S. See Warwick, J. W.
 Guo, Shirley M. See Walker, Peter.
 Gurnett, Donald A. See Scarf, Frederick L.
 Gustavson, M. R.: Limits to wind power utilization. v204 p13-17 6 Apr 79.

H

Hagar, H. H. See Tapley, B. D.
 Halberstam, I. M. See Jones, W. Linwood.
 Hale, Mason E., Jr. See Lawrey, James D.
 Hall, J. M. and Robinson, P. T.: Deep crustal drilling in the north Atlantic Ocean. v204 p573-586 11 May 79.
 Halloran, B. P. and DeLuca, H. F.: Vitamin D deficiency and reproduction in rats. v204 p73-74 6 Apr 79.
 Halpern, Mimi: review of *Behavior and Neurology of Lizards*, edited by Neil Greenberg and Paul D. MacLean. v204 p762-764 18 May 79.
 Halsall, H. Brian. See Heineman, William R.
 Hamilton, Betty. See DiMicco, Joseph A.
 Hamilton, D. C. See Krimigis, S. M.
 Hammond, D. C. See Tapley, B. D.
 Handler, Philip: Basic research in the United States. v204 p474-479 4 May 79.
 Hanel, R.; Conrath, B.; Flasar, M.; Kunde, V.; Lowman, P.; Maguire, W.; Pearl, J.; Pirraglia, J.; Samuelson, R.; Gautier, D.; Gierasch, P.; Kumar, S.; Ponnampuruma, C.: Infrared observations of the Jovian system from Voyager 1. v204 p972-976 1 June 79.
 Hare, P. E. and Gil-Ave, E.: Separation of D and L amino acids by liquid chromatography: use of chiral eluants. v204 p1226-1228 15 June 79.
 Harper, Robert A. and Grove, Gary: Human skin fibroblasts derived from papillary and reticular dermis: differences in growth po-

tential in vitro. v204 p526-527 4 May 79.
 Harris, A. L. See Spray, D. C.
 Harris, H. J. H.; Cartwright, K.; Torii, T.: Dynamic chemical equilibrium in a polar desert pond: a sensitive index of meteorological cycles. v204 p301-303 20 Apr 79.
 Harris, William H. See Rushfeld, Paul D.
 Hartline, Beverly Karplus (research news): Einstein explores high energy astrophysics. v204 p1399-1400 29 June 79. In search of solar neutrinos. v204 p42-44 6 Apr 79.
 Hartline, Frederick F. (research news): New breed of telescope born in Arizona. v204 p823-824 25 May 79.
 Harvey, C. C. See Warwick, J. W.
 Harvey, Stephen C.: East is east (letter). v204 p1158 15 June 79.
 Harwerth, Ronald S. See Smith, Earl L., III.
 Haussler, Mark R. See Pike, J. Welsey.
 Hayden, Bruce. See Dolan, Robert.
 Hedberg, Hollis D.: Ocean floor boundaries. v204 p135-144 13 Apr 79.
 Hedrick, Lee E. See Calvert, William H.
 Hefetz, Abraham; Fales, Henry M.; Batra, Suzanne W. T.: Natural polyesters: Dufour's gland macrocyclic lactones form brood cell laminesters in *Colletes* bees. v204 p415-417 27 Apr 79.
 Heilbron, J. L.: review of *My Life*, by Max Born. v204 p740-741 18 May 79.
 Hein, Alan; Vital-Durand, François; Salinger, Walter; Diamond, Rhea: Eye movements initiate visual-motor development in the cat. v204 p1321-1322 22 June 79.
 Heineman, William R.; Anderson, C. William; Halsall, H. Brian: Immunoassay by differential pulse polarography. v204 p865-866 25 May 79.
 Hekinian, Roger. See Natland, James H.
 Heller, H. C. See Walker, James M.
 Herbert, Sandra: review of *The Young Darwin and His Cultural Circle*, by Edward Manier. v204 p726-727 18 May 79.
 Herbst, Timothy J.; Raichle, Marcus E.; Ferrendelli, James A.: β -Adrenergic regulation of adenosine 3',5'-monophosphate concentration in brain microvessels. v204 p330-332 20 Apr 79.
 Herman, Robert and Prigogine, Ilya: A two-fluid approach to town traffic. v204 p148-151 13 Apr 79.
 Herron, Jeannine. See Galin, David.
 Herschman, Harvey R. See Karin, Michael.
 Heusser, Linda E. and Shackleton, Nicholas J.: Direct marine-continental correlation: 150,000-year oxygen isotope-pollen record from the North Pacific. v204 p837-839 25 May 79.
 Hildemann, William H.; Johnson, Ian S.; Jokiel, Paul L.: Immunocompetence in the lowest Metazoan phylum: transplantation immunity in sponges. v204 p420-422 27 Apr 79.
 Hill, Craig S. See Lemanski, Larry F.
 Hill, Shirley Y. and Mikhael, Michael: Computed tomography scans of alcoholics: cerebral atrophy? (technical comment). v204 p1237-1238 15 June 79.
 Hirata, Fusao. See Strittmatter, Warren J.
 Hirayama, Yasuko. See Ikekawa, Nobuo.
 Hitchcock, T. See Iyer, H. M.
 Hoar, Phyllis E.; Kerrick, W. Glenn L.; Cassidy, Paul S.: Chicken gizzard: relation between calcium-activated phosphorylation and contraction. v204 p503-506 4 May 79.
 Hobart, Michael A. See Anderson, Roger N.
 Hoepfner, Thomas J. See De Toledo-Morrell, Leyla.
 Hoffer, Barry J. See Perlow, Mark J.
 Hoffert, Michel. See Natland, James H.
 Holberg, J. B. See Broadfoot, A. L.
 Holden, Constance (news and comment): A.E., R.B., and P.H. v204 p597 11 May 79. Coral reefs in potential conflict with oil and gas development. v204 p812 25 May 79. Deaf nurse loses in Supreme Court plea. v204 p1285 22 June 79. Dolphins to look for Nessie. v204 p159 13 Apr 79. Holoart: playing with a budding technology. v204 p40-41 6 Apr 79. Indian science exhibit sits in limbo.

v204 p383 27 Apr 79. IQ tests for reactor operators. v204 p1285 22 June 79. Justices ponder Laetrile. v204 p597 11 May 79. Lawyers alerted for Skylab. v204 p1285 22 June 79. Low-level radiation: a high-level concern. v204 p155-158 13 Apr 79. Modified surgery for early breast cancer. v204 p1284-1285 22 June 79. More help for the mentally ill. v204 p816 25 May 79. Paul MacLean and the triune brain. v204 p1066-1068 8 June 79. Radiation responsibilities. v204 p482 4 May 79. Senior scholars unite. v204 p596 11 May 79. Supreme Court to hear case of deaf nurse. v204 p158-159 13 Apr 79. Teen-age pregnancies out of control. v204 p597 11 May 79. Une grande kermesse de l'énergie solaire. v204 p159 13 Apr 79. What to do with leaking Weteyes. v204 p1284 22 June 79.
 Holdren, John P.; Smith, Kirk R.; Morris, Gregory: Energy: calculating the risks (II) (letter). v204 p564, 566, 568 11 May 79.
 Holgate, R. See Carlen, P. L.
 Holstein, Barry: review of *Unification of Elementary Forces and Gauge Theories*, edited by David B. Cline and Frederick E. Mills. v204 p825 25 May 79.
 Hood, L. L.; Coleman, P. J., Jr.; Wilhelms, D. E.: The moon: sources of the crustal magnetic anomalies. v204 p53-57 6 Apr 79.
 Hooker, Neal. See Morse, Daniel E.
 Hordynski, Walter. See Farley, Irene J.
 Horn, John P. and McAfee, Donald A.: Norepinephrine inhibits calcium-dependent potentials in rat sympathetic neurons. v204 p1233-1235 15 June 79.
 Hornykiewicz, Oleh. See Farley, Irene J.
 Horoupan, Dikran S. See Spencer, Peter S.
 Houck, J. E. See Smith, S. V.
 Howard, James D. See Blackwelder, Blake W.
 Howard, Robert: review of *The New Solar Physics*, edited by John A. Eddy. v204 p607 11 May 79.
 Hoy, Ronald R. See Pollack, Gerald S.
 Hsueh, A. J. W. and Erickson, G. F.: Extrahypothalamic action of gonadotropin-releasing hormone: direct inhibition of ovarian steroidogenesis. v204 p854-855 25 May 79.
 Huang, H. W.; Hunter, S. H.; Warburton, W. K.; Moss, S. C.: X-ray absorption edge fine structure of potassium ions in various environments: application to frog blood cells. v204 p191-193 13 Apr 79.
 Hufbauer, Karl: review of *Chemistry Transformed*, by H. Gilman McCann. v204 p744-745 18 May 79.
 Hughes, Walter L.; Nussbaum, Gilbert H.; Connolly, Raymond; Emami, Bahman; Reilly, Paul: Tissue perfusion rate determined from the decay of oxygen-15 activity after photon activation in situ. v204 p1215-1217 15 June 79.
 Hulstrom, Roland. See Ireland, Philip J.
 Humphris, Susan E. See Natland, James H.
 Hunt, G. E. See Smith, Bradford A.
 Hunter, S. H. See Huang, H. W.

I

Ibser, H. W.: Three Mile Island (letter). v204 p795 25 May 79.
 Ihle, James N.; Joseph, David R.; Domoter, Joseph J., Jr.: Genetic linkage of C3H/HeJ and BALB/c endogenous ecotropic C-type viruses to phosphoglucomutase-1 on chromosome 5. v204 p71-73 6 Apr 79.
 Ikekawa, Nobuo; Fujimoto, Yoshinori; Ishiguro, Masaji; Suwa, Seizo; Hirayama, Yasuko; Mizunuma, Hiroshi: C_{26} sterol in a human urine. v204 p1223-1224 15 June 79.
 Ingersoll, Andrew P. See Smith, Bradford A.
 Innis, George S.: Statistical quality (letter). v204 p242 20 Apr 79.
 Ireland, Philip J.; Wagner, Sigurd; Kazmerski, Lawrence L.; Hulstrom, Roland: A combined irradiance-transmittance solar spectrum and its application to photovoltaic efficiency calculations. v204 p611-613 11 May 79.

Ishiguro, Masaji. See Ikekawa, Nobuo.
 Istock, C. A. See Graham, J. B.
 Iversen, Leslie L. See Bird, Edward D.
 Iyer, H. M.; Oppenheimer, D. H.; Hitchcock, T.: Abnormal P-wave delays in The Geysers-clear lake geothermal area, California. v204 p495-497 4 May 79.

J

Jenkins, Reese V.: review of *A History of Technology*, edited by Trevor I. Williams. v204 p747-748 18 May 79.
 Jensen, Lloyd. See Morse, Daniel E.
 Jochim, Michael: review of *European Prehistory*, by Sarunas Milisaukas. v204 p1402-1403 29 June 79.
 Johal, Sarjit and Bourque, Don P.: Crystalline ribulose 1,5-bisphosphate carboxylase-oxygenase from spinach. v204 p75-77 6 Apr 79.
 Johansson, Sonny and Angervall, Lennart: Carcinogenicity of phenacetin (letter). v204 p130 13 Apr 79.
 Johnson, Ian S. See Hildemann, William H.
 Johnson, Noye M.: Acid rain: neutralization within the Hubbard Brook ecosystem and regional implications. v204 p497-499 4 May 79.
 Johnson, Torrence V. See Smith, Bradford A.
 Johnstone, Jack. See Galin, David.
 Jokiel, Paul L. See Hildemann, William H.
 Jones, Conrad. See Dolan, Robert.
 Jones, K. G. See Sweeney, G. D.
 Jones, Kenneth L.; Arvidson, Raymond E.; Guinness, Edward A.; Bragg, Susan L.; Wall, Stephen D.; Carlston, Carl E.; Piek, Deborah G.: One Mars year: Viking lander imaging observations. v204 p799-806 25 May 79.
 Jones, Peter Rasmussen: Effects of raw materials on biface manufacture. v204 p835-836 25 May 79.
 Jones, W. Linwood; Black, P. G.; Boggs, D. M.; Bracaente, E. M.; Brown, R. A.; Dome, G.; Ernst, J. A.; Halberstam, I. M.; Overland, J. E.; Peteherych, S.; Pierson, W. J.; Wentz, F. J.; Woiceshyn, P. M.; Wurtele, M. G.: Seasat scatterometer: results of the Gulf of Alaska workshop. v204 p1413-1415 29 June 79.
 Joseph, David R. See Ihle, James N.
 Jukes, Thomas H.: Antibiotics in feeds (letter). v204 p8 6 Apr 79.

K

Kaas, Jon H.; Nelson, Randall J.; Sur, Mri-ganka; Lin, Cha-Sheng; Merzenich, Michael M.: Multiple representations of the body within the primary somatosensory cortex of primates. v204 p521-523 4 May 79.
 Kac, Mark: review of *Why I Left Canada*, by Leopold Infeld. v204 p49-50 6 Apr 79.
 Kaiser, M. L. See Warwick, J. W.
 Kamil, Alan C. See Pietrewicz, Alexandra T.
 Kandel, Gillray L. See Croffi, Joseph.
 Kaneps, Ansis G.: Gulf Stream: velocity fluctuations during the late Cenozoic. v204 p297-301 20 Apr 79.
 Kantor, Judith A.; Lee, Yan-Hwa; Chirikjian, Jack G.; Feller, William F.: DNA polymerase with characteristics of reverse transcriptase purified from human milk. v204 p511-513 4 May 79.
 Kaper, J. M. See Waterworth, H. E.
 Karin, Michael and Herschman, Harvey R.: Dexamethasone stimulation of metallothionein synthesis of HeLa cell cultures. v204 p176-177 13 Apr 79.
 Katsaros, K. B. See Lipes, R. G.
 Kazmerski, Lawrence L. See Ireland, Philip J.
 Keath, E. P. See Krimigis, S. M.
 Kellar, Penelope E. See Paerl, Hans W.

- Kendrick, K. M. and Drewett, R. F.: Testosterone reduces refractory period of stria terminalis neurons in the rat brain. v204 p877-879 25 May 79.
- Kennett, James P. See Loutit, Tom S.
- Kepkay, Paul E.; Cooke, Robert C.; Novitsky, James A.: Microbial autotrophy: a primary source of organic carbon in marine sediments. v204 p68-69 6 Apr 79.
- Kerr, Richard A. (research news): Geologic disposal of nuclear wastes: salt's lead is challenged. v204 p603-606 11 May 79. Nuclear waste disposal: alternatives to solidification in glass proposed. v204 p289-291 20 Apr 79. Petroleum exploration: discouragement about the Atlantic outer continental shelf deepens. v204 p1069-1072 8 June 79.
- Kerrick, W. Glenn L. See Hoar, Phyllis E.
- Kessel, David: Human serum fucosyltransferase and tumor therapy (technical comment). v204 p647 11 May 79.
- Kester, Dana R. See Mukherji, Prithviraj.
- Kevles, Daniel J.: review of *Thomas Hunt Morgan: Pioneer of Genetics*, by Ian Shine and Sylvia Wrobel, and *Thomas Hunt Morgan: The Man and His Science*, by Garland E. Allen. v204 p724-726 17 May 79.
- Kilham, Peter: review of *Lakes*, edited by A. Lerman. v204 p825-826 25 May 79.
- Kintz, Ellen R. See Folan, William J.
- Kirk, Kenneth L. See Cantacuzene, Daniele.
- Klein, Raymond and Armitage, Roseanne: Rhythms in human performance: 14-hour oscillations on cognitive style. v204 p1326-1328 22 June 79.
- Kleinzeller, Arnost; Brobeck, John; Forster, Robert E.: Scientists' freedom to travel (letter). v204 p1366 29 June 79.
- Klekowski, Edward J., Jr. See Chapman, Robert H.
- Kletsky, E. J. See Zwislocki, J. J.
- Kliot, Michel and Poletti, Charles E.: Hippocampal afterdischarges: differential spread of activity shown by the [¹⁴C]deoxyglucose technique. v204 p641-643 11 May 79.
- Klose, J. C. See Brown, J. W.
- Klotz, Lynn C. See Mitchell, Ralph M.
- Klug, A. See Prunell, A.
- Klun, J. A.; Plimmer, J. R.; Bierl-Leonhardt, B. A.; Sparks, A. N.; Chapman, O. L.: Trace chemicals: the essence of sexual communication systems in *Heliothis* species. v204 p1328-1330 22 June 79.
- Knapka, Joseph J.: Laboratory animal feed (letter). v204 p1367 29 June 79.
- Knatterud, Genell L. See Prout, Thaddeus E.
- Knudsen, Eric I. See Konishi, Masakazu.
- Koch, V. R. and Young, J. H.: 2-Methyltetrahydrofuran-lithium hexafluoroarsenate: a superior electrolyte for the secondary lithium electrode. v204 p499-501 4 May 79.
- Kohen, Cahide. See Kohen, Elli.
- Kohen, Elli; Kohen, Cahide; Thorell, Bo; Mintz, Daniel H.; Rabinovitch, Alexander: Inter-cellular communication in pancreatic islet monolayer cultures: a microfluorometric study. v204 p862-865 25 May 79.
- Kohn, Kurt W. See Filipski, Jan.
- Kolata, Gina Bari (research news): An independent approach to science. v204 p292-293 20 Apr 79. Continuation methods: new ways to solve equations. v204 p488-489 4 May 79. Frederick Mosteller and applied statistics. v204 p397-398 27 Apr 79. Gian-Carlos Rota and combinatorial math. v204 p44-45 6 Apr 79. Is labile hypertension a myth? v204 p489 4 May 79. Isadore Singer and differential geometry. v204 p933-934 1 June 79. (news and comment): Scientists attack report that obstetrical medications endanger children. v204 p391-392 27 Apr 79.
- Kolenkiewicz, R. See Tapley, B. D.
- Kominz, Michelle A. and Pisiás, Nicklas G.: Pleistocene climate: deterministic or stochastic? v204 p171-173 13 Apr 79.
- Konishi, Masakazu and Knudsen, Eric I.: The oilbird: hearing and echolocation. v204 p425-427 27 Apr 79.
- Kornberg, R. D. See Prunell, A.
- Kozak, Christine A. and Rowe, Wallace P.: Genetic mapping of the ecotropic murine leukemia virus-inducing locus of BALB/c mouse to chromosome 5. v204 p69-71 6 Apr 79.
- Kraft, T. See Levine, J. S.
- Krause, Dale C.: review of *On Almost Any Wind*, by Susan Schlee. v204 p753-754 18 May 79.
- Krestynski, F. See Sweeney, G. D.
- Krimigis, S. M.; Armstrong, T. P.; Axford, W. I.; Bostrom, C. O.; Fan, C. Y.; Gloeckler, G.; Lanzerotti, L. J.; Keath, E. P.; Zwickl, R. D.; Carbary, J. F.; Hamilton, D. C.: Low-energy charged particle environment at Jupiter: a first look. v204 p998-1003 1 June 79.
- Kromer, Lawrence F.; Bjorklund, Anders; Ste-nevi, Ulf: Intracerebral implants: a technique for studying neuronal interactions. v204 p1117-1119 8 June 79.
- Kumar, S. See Hanel, R.
- Kunde, V. See Hanel, R.
- Kunkel, Joseph G. See Cherry, Lorraine M.
- Kupferman, P. N. See Morabito, L. A.
- Kurth, William S. See Scarf, Frederick L.
- Kuypers, Henricus G. J. M. See van der Kooy, Derek.
- L**
- Lacy, Paul E.; Davie, Joseph M.; Finke, Edward H.: Prolongation of islet allograft survival following in vitro culture (24°C) and a single injection of ALS. v204 p312-313 20 Apr 79.
- Lagunoff, David. See Martin, Thomas W.
- Lakes, Roderic and Saha, Subrata: Cement line motion in bone. v204 p501-503 4 May 79.
- Lal, N. See Vogt, R. E.
- Lamb, Michael E.: review of *Patterns of Attachment*, by Mary D. Salter Ainsworth, Mary C. Blehar, Everett Waters, and Sally Wall. v204 p730-731 18 May 79.
- Lame, D. B. See Born, G. H. See also Brown, J. W.
- Landa, K. B. See Adler, R.
- Lane, A. L. See Stone, E. C.
- Lane, Nancy J.: Tight junctions in a fluid-transporting epithelium of an insect. v204 p91-93 6 Apr 79.
- Langseth, Marcus G. See Anderson, Roger N.
- Lanzerotti, L. J. See Krimigis, S. M.
- Larsen, Fred L. and Vincenzi, Frank F.: Calcium transport across the plasma membrane: stimulation by calmodulin. v204 p306-309 20 Apr 79.
- Larson, Dennis L. See Caruso, Thomas P.
- Laviolette, John R. See Raynaud, Jean-Pierre.
- Lawler, Ellen M. See Prehn, Liisa M.
- Lawrey, James D. and Hale, Mason E., Jr.: Lichen growth responses to stress induced by automobile exhaust pollution. v204 p423-424 27 Apr 79.
- Lawton, John H.: review of *Caste and Ecology in the Social Insects*, by George F. Oster and Edward O. Wilson. v204 p165-166 13 Apr 79.
- Lazarus, A. J. See Bridge, H. S.
- Lee, Yan-Hwa. See Kantor, Judith A.
- Lemanski, Larry F.; Paulson, Daniel J.; Hill, Craig S.: Normal anterior endoderm corrects the heart defect in cardiac mutant salamanders (*Ambystoma mexicanum*). v204 p860-862 25 May 79.
- Lemberg, Rein: Energy: calculating the risks (letter). v204 p454 4 May 79.
- Lepping, Ronald P. See Ness, Norman F.
- Lesh, J. R. See Sofia, S.
- Leshner, Alan I. See Roche, Kerry E.
- Lester, Gayle E. See Gray, T. Kenney.
- LeVay, Simon. See Shatz, Carla J.
- Levin, Donald A.: The nature of plant species. v204 p381-384 27 Apr 79.
- Levine, J. S.; MacNichol, E. F., Jr.; Kraft, T.; Collins, B. A.: Intraretinal distribution of cone pigments in certain teleost fishes. v204 p523-526 4 May 79.
- Levine, R. A. See Lovenberg, W.
- Levinton, Jeffrey S.: A theory of diversity equilibrium and morphological evolution. v204 p335-336 20 Apr 79.
- Levitt, M. See Prunell, A.
- Levy, G. S. See Eshleman, V. R.
- Lichy, D. See Gonzalez, F. I.
- Ligon, Woodfin V., Jr.: Extraction and analysis of organic cations from acid solution with strong electric fields and mass spectrometry. v204 p198-200 13 Apr 79.
- Likens, G. E. See Woodwell, G. M.
- Lin, C. S. See Friedlander, Michael J.
- Lin, Cha-Sheng. See Kaas, Jon H.
- Lindal, G. F. See Eshleman, V. R.
- Lindmo, Tore. See Steen, Harald B.
- Lipes, R. G.; Bernstein, R. L.; Cardone, V. J.; Katsaros, K. B.; Njoku, E. G.; Riley, A. L.; Ross, D. B.; Swift, C. T.; Wentz, F. J.; Seasat scanning multichannel microwave radiometer: results of the Gulf of Alaska workshop. v204 p1415-1417 29 June 79.
- Lisak, Robert P. See Saida, Takahiko.
- Livingston, D. A.: review of *Lake Kinneret*, edited by C. Serruya. v204 p754 18 May 79.
- Locke, William: College entrance standards (letter). v204 p1264 22 June 79.
- Loeblich, Alfred R., III. See Mitchell, Ralph M.
- Loeblich, Laurel A. See Mitchell, Ralph M.
- Loftus, Elizabeth F. and Fries, James F.: Informed consent may be hazardous to health (editorial). v204 p11 6 Apr 79.
- Loomis, A. A. See Wilkerson, J. C.
- Lorell, J. See Tapley, B. D.
- Lorenc, Roman S. See Gray, T. Kenney.
- Loutit, Tom S. and Kennett, James P.: Application of carbon isotope stratigraphy to Late Miocene shallow marine sediments, New Zealand. v204 p1196-1199 15 June 79.
- Lovenberg, W.; Levine, R. A.; Robinson, D. S.; Ebert, M.; Williams, A. C.; Calne, D. B.: Hydroxylase cofactor activity in cerebrospinal fluid of normal subjects and patients with Parkinson's disease. v204 p624-626 11 May 79.
- Lovins, Amory B.: Energy: Bechtel cost data (letter). v204 p124-129 13 Apr 79.
- Lowman, P. See Hanel, R.
- Lubell, David: review of *Excavations at Nichoria in Southwest Greece*, edited by George Rapp, Jr., and S. E. Aschenbrenner. v204 p1192-1193 15 June 79.
- Lutter, L. See Prunell, A.
- Lynch, Gary: review of *The Hippocampus as a Cognitive Map*, by John O'Keefe and Lynn Nadel. v204 p762 18 May 79.
- Lynch, Henry T. See Fishman, Jack.
- M**
- MacIntosh, F. C.: review of *Acetylcholine Synthesis in Neurons*, by S. Tucek. v204 p1193-1194 15 June 79.
- Mackas, David L. and Boyd, Carl M.: Spectral analysis of zooplankton spatial heterogeneity. v204 p62-64 6 Apr 79.
- Mackintosh, N. J.: review of *On Human Nature*, by Edward O. Wilson. v204 p735-737 18 May 79.
- MacNichol, E. F., Jr. See Levine, J. S.
- Mactutus, Charles F.; Riccio, David C.; Ferek, Jacquelyn M.: Retrograde amnesia for old (reactivated) memory: some anomalous characteristics. v204 p1319-1320 22 June 79.
- Madigan, Michael T.; Wall, Judy D.; Gest, Howard: Dark anaerobic dinitrogen fixation by a photosynthetic microorganism. v204 p1429-1430 29 June 79.
- Madsen, Boyd D. See Edelson, Robert E.
- Magin, R. L. See Weinstein, J. N.
- Magnarelli, Louis A. See Anderson, John F.
- Maguire, W. See Hanel, R.
- Maki, Williams S.: Discrimination learning without short-term memory: dissociation of

memory processes in pigeons. v204 p83-85 6 Apr 79.

Maness, C. Reid: Three Mile Island (letter). v204 p795 25 May 79.

Mann, Robert W. See Rushfeld, Paul D.

Manning, Margaret C. See Saida, Takahiko.

Manthrope, M. See Adler, R.

Marcu, K. B.; Schibler, U.; Perry, R. P.: Nuclear transcripts of mouse heavy chain immunoglobulin genes contain only the expressed class of C-region sequences. v204 p1087-1088 8 June 79.

Marks, Richard A. See McClain, E. Paul.

Marler, Peter. See Zoloth, Stephen R.

Marnier, Franz-Josef. See Cardellina, John H.

Marsh, J. G. See Tapley, B. D.

Marshak, R. E.: College entrance standards (letter). v204 p1263-1264 22 June 79.

Marshall, Eliot (news and comment): Assessing the damage at TMI. v204 p594-596 11 May 79. BEIR report on radiation hazards comes unglued. v204 p1062 8 June 79. Bureau of Oceans struck by fiscal thunderbolt. v204 p1062 8 June 79. Frank Press and Congress. v204 p37 6 Apr 79. Hamburg moves to Harvard. v204 p1062-1063 8 June 79. NAS study on radiation takes the middle road. v204 p711-714 18 May 79. Nuclear risks: still uncertain. v204 p714 18 May 79. OPEC prices make heavy oil look profitable. v204 p1283, 1284, 1286-1287 22 June 79. Peer review comes to ADAMHA. v204 p601-602 11 May 79. A preliminary report on Three Mile Island. v204 p280-281 20 Apr 79. The radiation studies begin. v204 p281 20 Apr 79. SALT supporters of two minds on treaty. v204 p922-924, 926 1 June 79. Three Mile Island: H₂ bubble is unexpected source of trouble. v204 p152-153 13 Apr 79. Washington breeds candidates (for MIT). v204 p1063 8 June 79. (letter): Three Mile Island. v204 p795 25 May 79.

Marshall, Larry G.; Butler, Robert F.; Drake, Robert E.; Curtis, Garniss H.; Tedford, Richard H.: Calibration of the great American interchange. v204 p272-279 20 Apr 79.

Marshall, William S. and Bern, Howard A.: Teleostean urophysis: urotensin II and ion transport across the isolated skin of a marine teleost. v204 p519-521 4 May 79.

Marsursky, Harold. See Smith, Bradford A.

Martin, C. F. See Tapley, B. D.

Martin, George F., Jr.: review of *Opossum Neurobiology*, edited by C. E. Rocha-Miranda and Roberto Lent. v204 p492 4 May 79.

Martin, Thomas W. and Lagunoff, David: Inhibition of mast cell histamine secretion by N-substituted derivatives of phosphatidylserine. v204 p631-633 11 May 79.

Marx, Jean L. (research news): Interferon (I): on the threshold of clinical application. v204 p1183-1186 15 June 79. Interferon (II): learning about how it works. v204 p1293-1295 22 June 79. Low-level radiation: just how bad is it? v204 p160-164 13 Apr 79.

Mason, S. T. and Fibiger, H. C.: On the specificity of kainic acid. v204 p1339-1341 22 June 79.

Mattey, David P. See Natland, James H.

Maugh, Thomas H., II (research news): Burial is last resort for hazardous wastes. v204 p1295-1298 22 June 79. Hazardous wastes technology is available. v204 p930-933 1 June 79. Incineration, deep wells gain new importance. v204 p1188-1190 15 June 79. It's nothing to cry about. v204 p293 20 Apr 79. Toxic waste disposal a growing problem. v204 p819-823 25 May 79. Virus isolated from juvenile diabetic. v204 p1187 15 June 79.

Mayeri, Earl. See Brownell, Philip.

McAfee, Donald A. See Horn, John P.

McCaman, Richard. See Goodman, Corey S.

McCauley, John F. See Smith, Bradford A.

McClain, E. Paul and Marks, Richard A.: Seasat visible and infrared radiometer. v204 p1421-1424 29 June 79.

McConnell, J. C. See Broadfoot, A. L.

McCormack, Shirley and Clark, James H.: Clomid administration to pregnant rats causes abnormalities of the reproductive tract in offspring and mothers. v204 p629-631 11 May 79.

McCulloh, David H. See Cantacuzene, Daniele.

McCullough, Edward. See Farley, Irene J.

McDonald, F. B. See Vogt, R. E.

McElroy, M. B. See Broadfoot, A. L.

McHenry, Henry M. See Corruccini, Robert S.

McIntyre, A. See Ruddiman, W. F.

McMillen, Marilyn M.: Differential mortality by sex in fetal and neonatal deaths. v204 p89-91 6 Apr 79.

McNutt, R. L. See Bridge, H. S.

McSween, Harry Y., Jr.; Taylor, Lawrence A.; Stolper, Edward M.: Allan Hills 77005: a new meteorite type found in Antarctica. v204 p1201-1203 15 June 79.

Meehan, Richard L.: Nuclear safety: is scientific literacy the answer? (editorial). v204 p571 11 May 79.

Meier, Paul: Diabetes drugs: clinical trial (letter). v204 p367 27 Apr 79.

Meinert, Curtis G. See Prout, Thaddeus E.

Melillo, Jerry M. See Vitousek, Peter M.

Merzabacher, Eugen: review of *Structure and Collisions of Ions and Atoms*, edited by I. A. Sellin. v204 p944 1 June 79.

Merzenich, Michael M. See Kaas, Jon H.

Mikhael, Michael. See Hill, Shirley Y.

Milliman, John D.: review of *Modern and Ancient Lake Sediments*, edited by Albert Matter and Maurice E. Tucker. v204 p942 1 June 79.

Milner, Peter M. See Beninger, Richard J.

Minick, Scott. See Chorev, Michael.

Minneman, Kenneth P.; Dibner, Mark D.; Wolfe, Barry B.; Molinoff, Perry B.: β_1 - and β_2 -adrenergic receptors in rat cerebral cortex are independently regulated. v204 p866-868 25 May 79.

Mintz, Daniel H. See Kohen, Elli.

Mitchell, Ralph M.; Loeblich, Laurel A.; Klotz, Lynn C.; Loeblich, Alfred R., III: DNA organization of *Methanobacterium thermoautotrophicum*. v204 p1082-1084 8 June 79.

Mizunuma, Hiroshi. See Ikekawa, Nobuo.

Mognard, N. M. See Tapley, B. D.

Mohandas, Thuluvancheri. See Shapiro, Larry J.

Moldowan, J. Michael and Seifert, Wolfgang K.: Head-to-head linked isoprenoid hydrocarbons in petroleum. v204 p169-171 13 Apr 79.

Molinoff, Perry B. See Minneman, Kenneth P.

Moody, David B. See Zoloth, Stephen R.

Moore, Richard E. See Cardellina, John H., II.

Moos, H. W. See Broadfoot, A. L.

Morabito, L. A.; Synnott, S. P.; Kupferman, P. N.; Collins, Stewart A.: Discovery of currently active extraterrestrial volcanism. v204 p972 1 June 79.

Morrell, Frank. See De Toledo-Morrell, Leyla.

Morris, Gregory. See Holdren, John P.

Morris, Simon Conway: review of *Arthropod Phylogeny*, edited by A. P. Gupta. v204 p1299 22 June 79.

Morrison, David. See Smith, Bradford A.

Morrison, George H. See Campbell, Neil A.

Morse, Daniel E.; Hooker, Neal; Duncan, Helen; Jensen, Lloyd: γ -Aminobutyric acid, a neurotransmitter, induces planktonic larvae to settle and begin metamorphosis. v204 p407-410 27 Apr 79.

Morton, Julia F.: Tea with milk (letter). v204 p909 1 June 79.

Moss, S. C. See Huang, H. W.

Mueller, Alfred: review of *Relativistic Quantum Fields*, by C. Nash. v204 p167 13 Apr 79.

Mukherji, Prithviraj and Kester, Dana R.: Mercury distribution in the Gulf Stream. v204 p64-66 6 Apr 79.

Mullin, Michael M.: review of *Upwelling Ecosystems*, edited by R. Boje and M. Tomczak. v204 p826 25 May 79.

Murtaugh, Paul: "Strategy" (letter). v204 p795 25 May 79.

N

Nahas, Gabriel G.: French anti-Nazi (letter). v204 p1154 15 June 79.

Nakell, Linda. See Galin, David.

Narayan, J. See White, C. W.

Natarajan, Murali. See Callis, Linwood B.

Nathanson, James A.: β -Adrenergic-sensitive adenylate cyclase in secretory cells of choroid plexus. v204 p843-844 25 May 79.

Natland, James H.; Rosendahl, Bruce; Hekimian, Roger; Dmitriev, Yuri; Fodor, Ronald V.; Goll, Robert M.; Hoffert, Michel; Humphris, Susan E.; Matthey, David P.; Petersen, Nikolai; Roggenthen, William; Schrader, Edward L.; Srivastava, Ramesh K.; Warren, Nick: Galápagos hydrothermal mounds: stratigraphy and chemistry revealed by deep-sea drilling. v204 p613-616 11 May 79.

Naughton, J. J. See Thomas, Donald M.

Nealy, John E. See Callis, Linwood B.

Nelson, Randall J. See Kaas, Jon H.

Ness, Norman F.; Acuna, Mario H.; Lepping, Ronald P.; Burlaga, Leonard F.; Behannon, Kenneth W.; Neubauer, Fritz M.: Magnetic field studies at Jupiter by Voyager 1: Preliminary results. v204 p982-987 1 June 79.

Neubauer, Fritz M. See Ness, Norman F.

Newberne, Paul M.: Nitrite promotes lymphoma incidence in rats. v204 p1079-1081 8 June 79.

Nicoll, Charles S. See White, Bruce A.

Noebels, Jeffrey L. and Sidman, Richard L.: Inherited epilepsy: spike-wave and focal motor seizures in the mutant mouse tottering. v204 p1334-1336 22 June 79.

Novick, Richard: Antibiotics: use in animal feed (letter). v204 p908 1 June 79.

Novitsky, James A. See Kepkay, Paul E.

Nussbaum, Gilbert H. See Hughes, Walter L.

O, P, and Q

O'Brien, Thomas G. See Rovera, Giovanni.

O'Connor, John. See Fishman, Jack.

Ohanian, M. J. See Burwell, C. C.

O'Keefe, J. See Sofia, S.

Okrent, David: Risk accounting (letter). v204 p1154 15 June 79.

Olson, Gayle F. See Cook, Philip M.

Olson, Lars. See Perlow, Mark J.

Olson, R. H. See Wilcox, J. M.

O'Malley, Bert W. See Tsai, Ming-Jer.

Oppenheimer, D. H. See Iyer, H. M.

Overland, J. E. See Jones, W. Linwood. See also Wilkerson, J. C.

Owen, Tobias. See Smith, Bradford A.

Packwood, James. See Gordon, Barbara.

Paerl, Hans W. and Kellar, Penelope E.: Nitrogen-fixing *Anabaena*: physiological adaptations instrumental in maintaining surface blooms. v204 p620-622 11 May 79.

Page, Robert B. See Bergland, Richard M.

Paglietti, E. See Gessa, G. L.

Palmer, John D.: College entrance standards (letter). v204 p1266 22 June 79.

Pandya, Deepak N. See Vogt, Brent A.

Paranjpe, Meera. See Boone, Charles W.

Pardee, Arthur B. See Yen, Andrew.

Parke, M. E. See Tapley, B. D.

Parker, Jeffrey B. See Pike, J. Welsey.

Patton, John S. and Carey, Martin C.: Watching fat digestion. v204 p145-148 13 Apr 79.

Paulson, Daniel J. See Lemanski, Larry F.

Pearce, J. B. See Warwick, J. W.

Pearl, J. See Hanel, R.

Pedersen, B. M. See Warwick, J. W.

Perlow, Mark J.; Freed, William J.; Hoffer, Barry J.; Seiger, Ake; Olson, Lars; Wyatt, Richard J.: Brain grafts reduce motor abnormalities produced by destruction of nigrostriatal dopamine system. v204 p643-647 11 May 79.

Perry, R. P. See Marcu, K. B.

Peteherych, S. See Jones, W. Linwood. See also Wilkerson, J. C.

Petersen, Michael R. See Zoloth, Stephen R.

Petersen, Nikolai. See Natland, James H.
 Pettinga, C.W.: Darvon safety (letter). v204 p6 Apr 79.
 Pidek, Deborah G. See Jones, Kenneth L.
 Pierson, Stuart: review of *Gay-Lussac*, by Maurice Crosland. v204 p743-744 18 May 79
 Pierson, W. J. See Jones, W. Linwood. See also Wilkerson, J. C.
 Piesman, Joseph. See Anderson, John F.
 Pietrewicz, Alexandra T. and Kamil, Alan C.: Search image formation in the blue jay (*Cyanocitta cristata*). v204 p1332-1333 22 June 79.
 Pike, J. Welsey; Parker, Jeffrey B.; Haussler, Mark R.; Boass, Agna; Toverud, Svein U.: Dynamic changes in circulating 1,25-dihydroxyvitamin D during reproduction in rats. v204 p1427-1429 29 June 79.
 Pilkey, Orrin H. See Blackwelder, Blake W.
 Pimpinelli, Sergio. See Pranter, Giorgio.
 Pings, Cornelius J.: Government-university relations (letter). v204 p1158 15 June 79.
 Pirraglia, J. See Hanel, R.
 Pisiyas, Nicklas G. See Kominz, Michelle A.
 Pitzer, Kenneth S.: "Reactor captains" (letter). v204 p1263 22 June 79.
 Plimmer, J. R. See Klun, J. A.
 Plummer, L. N. See Sundquist, E. T.
 Poletti, Charles E. See Kliot, Michel.
 Pollack, Gerald S. and Hoy, Ronald R.: Temporal pattern as a cue for species-specific calling song recognition in crickets. v204 p429-432 27 Apr 79.
 Pollin, William: Pert and the Lasker Award (letter). v204 p8 6 Apr 79.
 Ponnampuram, C. See Hanel, R.
 Porter, Alan L.: Paper studies (letter). v204 p568-569 11 May 79.
 Portoghese, Philip S. See Caruso, Thomas P.
 Pranter, Giorgio; Bonaccorsi, Silvia; Pimpinelli, Sergio: Simultaneous production of Q and R bands after staining with chromomycin A₃ or olivomycin. v204 p79-80 6 Apr 79.
 Prather, Richard. See Filipksi, Jan.
 Prehn, Liisa M. and Lawler, Ellen M.: Rank order of sarcoma susceptibility among mouse strains reverses with low concentrations of carcinogen. v204 p309-310 20 Apr 79.
 Prehn, Richmond T.: Grants and the "track record" (letter). v204 p909 1 June 79.
 Presson, Joelle. See Gordon, Barbara.
 Prewitt, Kenneth: Social science exchanges with China (editorial). v204 p1271 22 June 79.
 Price, Kathleen S. See Farley, Irene J.
 Prigogine, Ilya. See Herman, Robert.
 Prince, D. A. See Wong, R. K. S.
 Prout, Thaddeus E.; Knatterud, Genell L.; Meiner, Curtis G.: Diabetes drugs: clinical trial (letter). v204 p362-363 27 Apr 79.
 Proxmire, William: Rodent repeller not recommended (letter). v204 p1032 8 June 79.
 Prunell, A.; Kornberg, R. D.; Lutter, L.; Klug, A.; Levitt, M.; Crick, F. H. C.: Periodicity of deoxyribonuclease I digestion of chromatin. v204 p855-858 25 May 79.
 Pulsinelli, William A. and Duffy, Thomas E.: Local cerebral glucose metabolism during controlled hypoxemia in rats. v204 p626-629 11 May 79.
 Quarantotti, B. P. See Gessa, G. L.

R

Raabe, O. G. See Fisher, G. L.
 Rabin, Harvey; Benton, Charles V.; Tainsky, Michael A.; Rice, Nancy R.; Gilden, Raymond V.: Isolation and characterization of an endogenous type C virus of rhesus monkeys. v204 p841-842 25 May 79.
 Rabinovitch, Alexander. See Kohen, Elli.
 Radalje, R. C. See Smith, S. V.
 Raichle, Marcus E. See Herbst, Timothy J.
 Ralph, Charles L. See Gern, William A.
 Ralston, Charles W.: Where has all the carbon gone? (technical comment). v204 p1345-1346 22 June 79.
 Raven, Peter H. See Stubbe, Wilfried.

Ravin, Arnold W.: review of *Heraclitean Fire*, by Erwin Chargaff. v204 p726 18 May 79.
 Raynauld, Jean-Pierre; Laviolette, John R.; Wagner, Hans-Joachim: Goldfish retina: a correlate between cone activity and morphology of the horizontal cell in cone pedicles. v204 p1436-1438 29 June 79.
 Rechnitz, G. A. See Solsky, R. L.
 Reeve, Michael R.: review of *Spatial Pattern in Plankton Communities*, edited by John H. Steele. v204 p943 1 June 79.
 Reeves, Jaxk: Estimating fatness (technical comment). v204 p881 25 May 79.
 Reid, B. R.: review of *Transfer RNA*, edited by S. Altman. v204 p1401-1402 29 June 79.
 Reilly, Paul. See Hughes, Walter L.
 Reiners, W. A. See Woodwell, G. M.
 Reiners, William A. See Vitousek, Peter M.
 Rhoades, David F.: review of *Biochemical Aspects of Plant and Animal Coevolution*, edited by J. B. Harborne. v204 p166-167 13 Apr 79.
 Riccio, David C. See Mactutus, Charles F.
 Rice, Nancy R. See Rabin, Harvey.
 Riddle, A. C. See Warwick, J. W.
 Riley, A. L. See Lipes, R. G.
 Roberts, W. O. See Wilcox, J. M.
 Robinson, Arthur L. (research news): New Cornell accelerator stores first beam. v204 p719-721 18 May 79. Tournament competition fuels computer chess. v204 p1396-1398 29 June 79. Wiggler magnet shakes light from electrons. v204 p394-396 27 Apr 79.
 Robinson, D. S. See Lovenberg, W.
 Robinson, P. T. See Hall, J. M.
 Roche, Kerry E. and Leshner, Alan I.: ACTH and vasopressin treatments immediately after a defeat increase future submissiveness in male mice. v204 p1343-1344 22 June 79.
 Roggenthen, William. See Natland, James H.
 Romeo, Giovanni. See Shapiro, Larry J.
 Rosendahl, Bruce. See Natland, James H.
 Rosene, Douglas L. See Vogt, Brent A.
 Rosensweig, Ronald E.: Fluidization: hydrodynamic stabilization with a magnetic field. v204 p57-60 6 Apr 79.
 Ross, D. B. See Gonzalez, F. I.
 Ross, D. B. See Lipes, R. G.
 Rothman, S. S. See Isenman, Lois D.
 Rothschild, Kenneth J. and Clark, Noel A.: Anomalous amide I infrared absorption of purple membrane. v204 p311-312 20 Apr 79.
 Rovera, Giovanni; O'Brien, Thomas G.; Diamond, Leila: Induction of differentiation in human promyelocytic leukemia cells by tumor promoters. v204 p868-870 25 May 79.
 Rowe, James W.: News from Interciencia Association (AAAS). v204 p490 4 May 79.
 Rowe, Wallace P. See Kozak, Christine A.
 Roy, Debduitta. See Spector, Abraham.
 Roy, Rustom: Proposals, peer review, and research results (letter). v204 p1154-1157 15 June 79.
 Rubin, Donald B.: Burt's tables (letter). v204 p245-246 20 Apr 79.
 Ruddiman, W. F. and McIntyre, A.: Warmth of the subpolar North Atlantic Ocean during Northern Hemisphere ice-sheet growth. v204 p173-175 13 Apr 79.
 Rufenach, C. L. See Gonzalez, F. I.
 Rushfeld, Paul D.; Mann, Robert W.; Harris, William H.: Influence of cartilage geometry on the pressure distribution in the human hip joint. v204 p413-415 27 Apr 79.

S and T

Sagan, Carl. See Smith, Bradford A.
 Sage, Martin: review of *Comparative Endocrinology of Prolactin*, by D. M. Ensor. v204 p1075 8 June 79.
 Saha, Subrata. See Lakes, Roderic.
 Saida, Kyoko. See Saida, Takahiko.
 Saida, Takahiko; Saida, Kyoko; Dorfman, Susan H.; Silberberg, Donald H.; Sumner, Austin J.; Manning, Margaret C.; Lisak, Robert P.; Brown, Mark J.: Experimental allergic neuritis induced by sensitization with

galactocerebroside. v204 p1103-1106 8 June 79.
 Salamy, A.: Commissural transmission in humans (technical comment). v204 p531 4 May 79.
 Salinger, Walter. See Hein, Alan.
 Samuelson, R. See Hanel, R.
 Sand, Seaward A. See Chen, Kevin.
 Sandel, B. R. See Broadfoot, A. L.
 Saunders, W. Bruce and Spinosa, Claude: *Nautilus* movement and distribution in Palau, Western Caroline Islands. v204 p1199-1201 15 June 79.
 Scarf, Frederick L.; Gurnett, Donald A.; Kurth, William S.: Jupiter plasma wave observations: an initial Voyager 1 overview. v204 p991-995 1 June 79.
 Schardt, A. W. See Vogt, R. E.
 Schatten, K. H. See Wilcox, J. M.
 Scheer, Robert. See Gordon, Barbara.
 Scheid, Margrit P. See Goldstein, Gideon.
 Scherrer, P. H. See Wilcox, J. M.
 Schibler, U. See Marcu, K. B.
 Schlesinger, David H. See Goldstein, Gideon.
 Schmitt, Charles B.: review of *Science in the Middle Ages*, edited by David C. Lindberg. v204 p492 4 May 79.
 Schneiderman, Marvin A. See Gart, John J.
 Schoener, Thomas W.: review of *The Dynamics of Arthropod Predator-Prey Systems*, by Michael P. Hassell. v204 p491-492 4 May 79.
 Schofield, Carl L. See Cronan, Christopher S.
 Schrader, Edward L. See Natland, James H.
 Scott, J. Campbell: review of *Highly Conducting One-Dimensional Solids*, edited by Jozef T. Devreese, Roger P. Evrard, and Victor E. van Doren. v204 p1074 8 June 79.
 Scudder, J. D. See Bridge, H. S.
 Seifert, Wolfgang K. See Moldowan, J. Michael.
 Seiger, Ake. See Perlow, Mark J.
 Selander, Robert K. See Chapman, Robert H.
 Shackleton, Nicholas J. See Heusser, Linda E.
 Shainoff, John R. and Dardik, Beatriz N.: Fibrinopeptide B and aggregation of fibrinogen. v204 p200-202 13 Apr 79.
 Shallice, Tim: review of *Chronometric Exploration of Mind*, by Michael I. Posner. v204 p827 25 May 79.
 Shapiro, Larry J.; Mohandas, Thuluvancheri; Weiss, Roberta; Romeo, Giovanni: Non-inactivation of an X-chromosome locus in man. v204 p1224-1226 15 June 79.
 Shapley, Deborah (news and comment): Don't swallow the whistle—blow it! v204 p389 27 Apr 79. IEEE dissenter faces unknown charges. v204 p389 27 Apr 79. Judge halts H-bomb article. v204 p38 6 Apr 79. NASA says FAA understates air crash risk. v204 p387-388 27 Apr 79. New chips shed light on Soviet electronics. v204 p283-284 20 Apr 79. Scientists probe secrets of Sauce Bearnaise. v204 p388 27 Apr 79.
 Shatz, Carla J. and LeVay, Simon: Siamese cat: altered connections of visual cortex. v204 p328-330 20 Apr 79.
 Shavitz, Rick. See Chorev, Michael.
 Shemansky, D. E. See Broadfoot, A. L.
 Sherman, J. W., III. See Gonzalez, F. I.
 Sherman, S. Murray. See Friedlander, Michael J.
 Shoemaker, Eugene M. See Smith, Bradford A.
 Shor, E. N.: Oceanographic research: sailing vessels (letter). v204 p1263 22 June 79.
 Schuchman, R. A. See Gonzalez, F. I.
 Shuler, S. E. See Voors, A. W.
 Shyne, Susan. See Spector, Abraham.
 Sidman, Richard L. See Noebels, Jeffrey L.
 Siekevitz, Philip: Recombinant DNA experiments (letter). v204 p908-909 1 June 79.
 Silberberg, Donald H. See Saida, Takahiko.
 Silsbee, R. H.: review of *Physics of Vibration*, by A. B. Pippard. v204 p750 18 May 79.
 Simmons, James A.: Perception of echo phase information in bat sonar. v204 p1336-1338 22 June 79.
 Simons, John P.: *Excited States in Quantum*

- Chemistry*, edited by Cleanthes A. Nicolaides and Donald R. Beck. v204 p1300-1301 22 June 79.
- Siscoe, G. L. See Bridge, H. S.
- Sittler, E. C. See Bridge, H. S.
- Smith, Barry T.: Lung maturation in the fetal rat: acceleration by injection of fibroblast-pneumocyte factor. v204 p1094-1095 8 June 79.
- Smith, Bradford A.; Soderblom, Laurence A.; Johnson, Torrence V.; Ingersoll, Andrew P.; Collins, Stewart A.; Shoemaker, Eugene M.; Hunt, G. E.; Masursky, Harold; Carr, Michael H.; Davies, Merton E.; Cook, Allan F., II; Boyce, Joseph; Danielson, G. Edward; Owen, Tobias; Sagan, Carl; Beebe, Reta F.; Veverka, Joseph; Strom, Robert G.; McCauley, John F.; Morrison, David; Briggs, Geoffrey A.; Suomi, Verner E.: The Jupiter system through the eyes of Voyager 1. v204 p951-957, 960-972 1 June 79.
- Smith, Carol G. See Smith, Roy G.
- Smith, Earl L., III; Bennett, Michael J.; Harwerth, Ronald S.; Crawford, M. L. J.: Binocularly in kittens reared with optically induced squint. v204 p875-877 25 May 79.
- Smith, Kirk R. See Holdren, John P.
- Smith, R. Jeffrey (news and comment): ... and Federal officials learn of hazard in homes. v204 p285 20 Apr 79. Approval sought for nitrite plan. v204 p386 27 Apr 79. Carter privacy bills cover research, medicine. v204 p284-285 20 Apr 79. Congress considers asbestos indemnity bill. v204 p712 18 May 79. Court reluctantly upholds EPA on 2,4,5-T suspension. v204 p602 11 May 79. FDA advisers spurn tough Darvon controls. v204 p712-713 18 May 79. Harvard misspending alleged. v204 p285 20 Apr 79. NCI bioassays yield a trail of blunders. v204 p1287-1292 22 June 79. New OTA, NIDA, NIAAA directors appointed. v204 p713 18 May 79. Rodent repellents attract EPA strictures. v204 p484-486 4 May 79. State officials alerted to school asbestos hazard. v204 p285 20 Apr 79. Study finds sleeping pills overprescribed. v204 p287-288 20 Apr 79. Summer phenomena. v204 p712 18 May 79. U.S. beginning to act on banned pesticides. v204 p1391-1394.
- Smith, Roy G.; Besch, Norma F.; Besch, Paige K.; Smith, Carol G.: Inhibition of gonadotropin by Δ^9 -tetrahydrocannabinol: mediation by steroid receptors? v204 p325-327 20 Apr 79.
- Smith, S. L., III. See Tapley, B. D.
- Smith, S. V.; Buddemeier, R. W.; Radalje, R. C.; Houck, J. E.: Strontium-calcium thermometry in coral skeletons. v204 p404-407 27 Apr 79.
- Smith, Thomas W. See Somberg, John C.
- Soderblom, Laurence A. See Smith, Bradford A.
- Sofia, S.; O'Keefe, J.; Lesh, J. R.; Endal, A. S.: Solar constant: constraints on possible variations derived from solar diameter measurements. v204 p1306-1308 22 June 79.
- Solem, Alan: review of *Evolutionary Systematics of the Bivalve Molluscs*. v204 p1403-1404 29 June 79.
- Soloff, Melvyn S.; Alexandrova, Maria; Fernstrom, Martha J.: Oxytocin receptors: triggers for parturition and lactation? v204 p1313-1315 22 June 79.
- Solsky, R. L. and Rechnitz, G. A.: Antibody-selective membrane electrodes. v204 p1308-1309 22 June 79.
- Somberg, John C. and Smith, Thomas W.: Localization of the neurally mediated arrhythmogenic properties of digitalis. v204 p321-323 20 Apr 79.
- Soter, Steven. See Gold, Thomas.
- Spanggord, Ronald J. and Tyson, Charles A.: N-Formyliminodiacetic acid, a new compound from the reaction of nitrilotriacetic acid and chlorine. v204 p1081-1082 8 June 79.
- Sparks, A. N. See Klun, J. A.
- Spaulding, W. Geoffrey. See Van Devender, Thomas R.
- Speelman, Roger D.: Behavior maintained by termination of a schedule of self-administered cocaine. v204 p1231-1233 15 June 79.
- Spector, Abraham; Garner, Margaret H.; Garner, William H.; Roy, Debdutta; Farnsworth, Patricia; Shyne, Susan: An extrinsic membrane polypeptide associated with high-molecular-weight protein aggregates in human cataract. v204 p1323-1326 22 June 79.
- Spencer, Peter S.; Sterman, Arnold B.; Horoupian, Dikran S.; Foulds, Marion M.: Neurotoxic fragrance produces ceroid and myelin disease. v204 p633-635 11 May 79.
- Spielman, Andrew. See Anderson, John F.
- Spinosa, Claude. See Saunders, W. Bruce.
- Spitzer, Nicholas C. See Goodman, Corey S.
- Spokes, Ernest G. See Bird, Edward D.
- Spray, D. C.; Harris, A. L.; Bennett, M. V. L.: Voltage dependence of junctional conductance in early amphibian embryos. v204 p432-434 27 Apr 79.
- Srivastava, Ramesh K. See Natland, James H.
- Stebbins, William. See Zoloth, Stephen R.
- Steck, Theodore L. See Clark, Robert L.
- Steen, Harald B. and Lindmo, Tore: Flow cytometry: a high-resolution instrument for everyone. v204 p403-404 27 Apr 79.
- Stein, Sherman K.: review of *Mathematics Today*, edited by Lynn Arthur Steen. v204 p751 18 May 79.
- Steitz, T. A. See Anderson, C. M.
- Stenevi, Ulf. See Kromer, Lawrence F.
- Sterman, Arnold B. See Spencer, Peter S.
- Stigler, Stephen M.: Burt's tables (letter). v204 p242-245 20 Apr 79.
- Stigler, Stephen M. and Stigler, Virginia L.: Technical comments: delay time (letter). v204 p569 11 May 79.
- Stigler, Virginia L. See Stigler, Stephen M.
- Stika, Katherine M. See Campbell, Neil A.
- Stolper, Edward M. See McSween, Harry Y., Jr.
- Stone, E. C. See Vogt, R. E.
- Stone, E. C. and Lane, A. L.: Voyager 1 encounter with the Jovian system. v204 p945-948 1 June 79.
- Stormont, Clyde. See Bailey, Ernest.
- Strassman, Joan E.: Honey caches help female paper wasps survive Texas winters. v204 p207-209 13 Apr 79.
- Strittmatter, Warren J.; Hirata, Fusao; Axelrod, Julius: Phospholipid methylation unmasks cryptic β -adrenergic receptors in rat reticulocytes. v204 p1205-1207 15 June 79.
- Strobel, D. F. See Broadfoot, A. L.
- Strom, Robert G. See Smith, Bradford A.
- Stubbe, Wilfried and Raven, Peter H.: Genetic self-incompatibility in *Oenothera* subsect *Euoenothera*. v204 p327 20 Apr 79.
- Stuwer, Roger H.: review of *Rutherford and Physics at the Turn of the Century*, edited by Mario Bunge and William R. Shea. v204 p742-743 18 May 79.
- Sturges, Gerald D.: Darwin: effectiveness and safety (letter). v204 p1035 8 June 79.
- Sullivan, J. D. See Bridge, H. S.
- Sumner, Austin J. See Saida, Takahiko.
- Sundquist, E. T.; Plummer, L. N.; Wigley, T. M. L.: Carbon dioxide in the ocean surface: the homogeneous buffer factor. v204 p1203-1205 15 June 79.
- Suomi, Verner E. See Smith, Bradford A.
- Sur, Mriganka. See Kaas, Jon H.
- Suttles, Gerald D.: review of *Children's Experience of Place*, by Roger Hart. v204 p731-732 18 May 79.
- Suwa, Seizo. See Ikekawa, Nobuo.
- Suzuki, Yoshiko. See Bailey, Ernest.
- Svalgaard, L. See Wilcox, J. M.
- Swadlow, Harvey A.; Geschwind, Norman; Waxman, Stephen G.: Commissural transmission in humans (technical comment). v204 p530-531 4 May 79.
- Swanson, Guy E.: review of *A History of Sociological Analysis*, edited by Tom Bottomore and Robert Nisbet. v204 p733-734 18 May 79.
- Sweeney, G. D.; Jones, K. G.; Cole, F. M.; Basford, D.; Krestynski, F.: Iron deficiency prevents liver toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin. v204 p332-335 20 Apr 79.
- Swift, C. T. See Lipes, R. G.
- Synnott, S. P. See Morabito, L. A.
- Tainsky, Michael A. See Rabin, Harvey.
- Takacs, P. Z. See Broadfoot, A. L.
- Takeichi, Noritoshi. See Boone, Charles W.
- Takemori, A. E. See Caruso, Thomas P.
- Tampieri, Francesco. See Vittori, Ottavio.
- Tapley, B. D.; Born, G. H.; Hagar, H. H.; Lorell, J.; Parke, M. E.; Diamante, J. M.; Douglas, B. C.; Goad, C. C.; Kolenkiewicz, R.; Marsh, J. G.; Martin, C. F.; Smith, S. L., III; Townsend, W. F.; Whitehead, J. A.; Byrne, H. M.; Fedok, L. S.; Hammond, D. C.; Mognard, N. M.: Seasat altimeter calibration: initial results. v204 p1410-1412 29 June 79.
- Taylor, Lawrence. See McSween, Harry Y., Jr.
- Taylor, Michael A.: Brain norepinephrine and dopamine in schizophrenia (technical comment). v204 p94 6 Apr 79.
- Tedford, Richard H. See Marshall, Larry G.
- Terrile, Richard J.; Capps, R. W.; Backman, D. E.; Becklin, E. E.; Cruikshank, D. P.; Beichman, C. A.; Brown, R. H.; Westphal, James A.: Infrared images of Jupiter at 5-micrometer wavelength during the Voyager 1 encounter. v204 p1007-1008 1 June 79.
- Terrile, Richard J. and Beebe, Reta F.: Summary of historical data: interpretation of the Pioneer and Voyager cloud configurations in a time-dependent framework. v204 p948-951 1 June 79.
- Thieman, J. R. See Warwick, J. W.
- Thom, Gary C.: Three Mile Island (letter). v204 p794 25 May 79.
- Thomas, Donald M. and Naughton, J. J.: Helium/carbon dioxide ratios as premonitors of volcanic activity. v204 p1195-1196 15 June 79.
- Thorell, Bo. See Kohen, Elli.
- Thorne, Richard M. and Tsurutani, Bruce T.: Power-line harmonic radiation: can it significantly affect the earth's radiation belts? v204 p839-841 25 May 79.
- Tixier-Vidal, Andrée. See Dufy, Bernard.
- Todd, Robert L. See Vitousek, Peter M.
- Tomatis, L.: Carcinogenicity of phenacetin (letter). v204 p129-130 13 Apr 79.
- Torii, T. See Harris, H. J. H.
- Tousignant, M. E. See Waterworth, H. E.
- Toverud, Svein U. See Pike, J. Welsey.
- Townsend, W. F. See Tapley, B. D.
- Tracey, Martin L., Jr.: review of *Marine Organisms*, edited by Bruno Battaglia and John A. Beardmore. v204 p759-761 18 May 79.
- Trainor, J. H. See Vogt, R. E.
- Trommershausen-Smith, Ann. See Bailey, Ernest.
- Tronick, Steven R. See Andersen, Philip R.
- Tsai, Ming-Jer; Tsai, Sophia Y.; O'Malley, Bert W.: Distribution of RNA transcripts from structural and intervening sequences of the ovalbumin gene. v204 p314-316 20 Apr 79.
- Tsai, Sophia Y. See Tsai, Ming-Jer.
- Tsurutani, Bruce T. See Thorne, Richard M.
- Turner, Ralph H.: review of *Conceiving the Self*, by Morris Rosenberg. v204 p727-728 18 May 79.
- Tyler, G. L. See Eshleman, V. R.
- Tyndale-Biscoe, Hugh: review of *The Biology of the Monotremes*, by Mervyn Griffiths. v204 p1300 22 June 79.
- Tyson, Charles A. See Spanggord, Ronald J.

V-Z

- van der Kooy, Derek and Kuypers, Henricus G. J. M.: Fluorescent retrograde double labeling: axonal branching in the ascending raphe and nigral projections. v204 p873-875 25 May 79.
- Van Devender, Thomas R. and Spaulding, W. Geoffrey: Development of vegetation and climate in the southwestern United States. v204 p701-710 18 May 79.

- Van Flandern, Thomas C.: Rings of Uranus: invisible and impossible? v204 p1076-1077 8 June 79.
- Van Houten, Judith: Membrane potential changes during chemokinesis in *Paramecium*. v204 p1100-1103 8 June 79.
- Van Wauwe, Jean. See Goldstein, Gideon.
- Varon, S. See Adler, R.
- Vasyliunas, V. M. See Bridge, H. S.
- Verweij, Albert; Boter, Henk L.; Degenhardt, Carla E. A.: Chemical warfare agents: verification of compounds containing the phosphorus-methyl linkage in waste water. v204 p616-618 11 May 79.
- Veverka, Joseph. See Smith, Bradford A.
- Vincent, Jean-Didier. See Dufy, Bernard.
- Vincenzi, Frank F. See Larsen, Fred L.
- Vital-Durand, François. See Hein, Alan.
- Vito, Christine C. and Fox, Thomas O.: Embryonic rodent brain contains estrogen receptors. v204 p517-519 4 May 79.
- Vitousek, Peter M.; Gosz, James R.; Grier, Charles C.; Melillo, Jerry M.; Reiners, William A.; Todd, Robert L.: Nitrate losses from disturbed ecosystems. v204 p469-474 4 May 79.
- Vittori, Ottavio and Tampieri, Francesco: Venice: sea-lagoon exchange in a modified tide regime. v204 p261-264 20 Apr 79.
- Vogt, Brent A.; Rosene, Douglas L.; Pandya, Deepak N.: Thalamic and cortical afferents differentiate anterior from posterior cingulate cortex in the monkey. v204 p205-207 13 Apr 79.
- Vogt, R. E.; Cook, W. R.; Cummings, A. C.; Garrard, T. L.; Gehrels, N.; Stone, E. C.; Trainor, J. H.; Schardt, A. W.; Conlon, T.; Lal, N.; McDonald, F. B.: Voyager 1: energetic ions and electrons in the Jovian magnetosphere. v204 p1003-1007 1 June 79.
- von Hippel, Frank: Available thyroid protection (letter). v204 p1032 8 June 79.
- Voors, A. W.; Berenson, G. S.; Dalferes, E. R.; Webber, L. S.; Shuler, S. E.: Racial differences in blood pressure control. v204 p1091-1094 8 June 79.
- Wade, Nicholas (news and comment): Academy elections raise question of quirkiness. v204 p717-718 18 May 79. Doves attack Salt II. v204 p1389 29 June 79. Dynamite prizes. v204 p487 4 May 79. Jessica Mathews, NSC aide for global issues. v204 p1178-1179 15 June 79. Kennedy leaves FDA for Stanford. v204 p486-487 4 May 79. Moscow signal is no death ray but still cryptic. v204 p1388 29 June 79. Oil pinch stirs dreams of moonshine travel. v204 p928-929 1 June 79. Russian physicist falls foul of bureaucracy. v204 p598-599 11 May 79. To accept is to reject: the publishing paradox. v204 p487 4 May 79. U.S. scientists say world dominance is over. v204 p486 4 May 79. Viets and Vets fear herbicide health effects. v204 p817 25 May 79.
- Wagner, Hans-Joachim. See Raynauld, J.-P.
- Wagner, Sigurd. See Ireland, Philip J.
- Walker, James M.; Garber, Ann; Berger, Ralph J.; Heller, H. C.: Sleep and estivation (shallow torpor): continuous processes of energy conservation. v204 p1098-1100 8 June 79.
- Walker, Peter; Weichsel, Morton E., Jr.; Fisher, David A.; Guo, Shirley M.; Fisher, Delbert A.: Thyroxine increases nerve growth factor concentration in adult mouse brain. v204 p427-429 27 Apr 79.
- Wall, Judy D. See Madigan, Michael T.
- Wall, Stephen D. See Jones, Kenneth L.
- Walsh, John (news and comment): Brown down on weapons link. v204 p929 1 June 79. Choice of Los Alamos director stirs critics. v204 p1387, 1389-1390 29 June 79. Debate on the future of weapons labs widens. v204 p481-484 4 May 79. Different route accepted as way to new department. v204 p814 25 May 79. Endangered review body seems to be in the clear. v204 p815 25 May 79. Is faculty management? that's an issue in BU talks. v204 p34-35 6 Apr 79. Japan-U.S. cooperation on energy R & D agreed to. v204 p814 25 May 79. Law of the Sea Conference sails on and on and on. v204 p34 6 Apr 79. New institute passes first test in Congress. v204 p385-387 27 Apr 79. Nonprofit *Chronicle of Higher Education*. v204 p818 25 May 79. On the way to the forum. v204 p815 25 May 79. Panel asks weapons labs contingency plan. v204 p716-717 18 May 79. Scientists organize for UNCSTD and after. v204 p1394-1395 29 June 79. UN meeting in Vienna unlikely to be a waltz. v204 p926-927 1 June 79. "Unfaculty" a growing factor in research. v204 p286 20 Apr 79. U.S. Geological Survey—on the map for 100 years. v204 p814-815 25 May 79.
- Wampler, E. Joseph: review of *Planetary Nebulae*, edited by Yervant Terzian. v204 p607-608 11 May 79.
- Warburton, W. K. See Huang, H. W.
- Waring, R. H. and Franklin, J. F.: Evergreen coniferous forests of the Pacific Northwest. v204 p1380-1386 29 June 79.
- Warren, Nick. See Natland, James H.
- Warwick, J. W.; Pearce, J. B.; Riddle, A. C.; Alexander, J. K.; Desch, M. D.; Kaiser, M. L.; Thieman, J. R.; Carr, T. D.; Gulkis, S.; Boischoit, A.; Harvey, C. C.; Pedersen, B. M.: Voyager 1 planetary radio astronomy observations near Jupiter. v204 p995-998 1 June 79.
- Wasserman, Gerald S.; Felsten, Gary; Eastland, Gene S.: The psychophysical function: harmonizing Fechner and Stevens. v204 p85-87 6 Apr 79.
- Waterworth, H. E.; Kaper, J. M.; Tousignant, M. E.: CARNA 5, the small cucumber mosaic virus-dependent replicating RNA, regulates disease expression. v204 p845-847 25 May 79.
- Waxman, Stephen G. See Swadlow, Harvey A.
- Webber, L. S. See Voors, A. W.
- Weber, Anita L. and Adler, Norman T.: Delay of constant light-induced persistent vaginal estrus by 24-hour time cues in rats. v204 p323-325 20 Apr 79.
- Weichsel, Morton E., Jr. See Walker, Peter.
- Weidmann, Silvio. See Crane, Paul F.
- Weinberg, A. M. See Burwell, C. C.
- Weiner, Michael W.: Uncoupling agents distinguish between the effects of metabolic inhibitors and transport inhibitors. v204 p187-188 13 Apr 79.
- Weinstein, J. N.; Magin, R. L.; Yatvin, M. B.; Zaharko, D. S.: Liposomes and local hyperthermia: selective delivery of methotrexate to heated tumors. v204 p188-191 13 Apr 79.
- Weintraub, Daniel: review of *Seeing Is Deceiving*, by Stanley Coren and Joan Stern Girgus. v204 p1402 29 June 79.
- Weiss, Roberta. See Shapiro, Larry J.
- Wentz, F. See Lipes, R. G. See also Jones, W. Linwood.
- Werner, Earl E.: review of *Ecology of Freshwater Fish Production*, edited by Shelby D. Gerking. v204 p608-609 11 May 79.
- Westfall, Richard S.: review of *The Library of Isaac Newton*, by John Harrison. v204 p745-746 18 May 79.
- Westphal, James A. See Terrile, Richard J.
- Wetherbee, Richard: "Transfer connections": specialized pathways for nutrient translocation in a red alga? v204 p858-859 25 May 79.
- Wheeler, Steven R.: Tea and tannins (letter). v204 p6-7 6 Apr 79.
- White, Bruce A. and Nicoll, Charles S.: Pro-lactin receptors in *Rana catesbeiana* during development and metamorphosis. v204 p851-853 25 May 79.
- White, C. W.; Narayan, J.; Young, R. T.: Laser annealing of ion-implanted semiconductors. v204 p461-468 4 May 79.
- White, Kenneth L.: Chesterton soil concretions: ilmenite and not iron-manganese cementing matrix. v204 p1077-1078 8 June 79.
- White, Tim D.: review of *Evolution of African Mammals*, edited by Vincent J. Maglio and H. B. S. Cooke. v204 p755-756 18 May 79.
- Whittaker, R. H. See Woodwell, G. M.
- Wigley, T. M. L. See Sundquist, E. T.
- Wilcox, J. M.; Duffy, P. B.; Schatten, K. H.; Svalgaard, L.; Scherrer, P. H.; Roberts, W. O.; Olson, R. H.: Interplanetary magnetic field polarity and the size of low-pressure troughs near 180°W longitude. v204 p60-62 6 Apr 79.
- Wilhelms, D. E. See Hood, L. L.
- Wilkerson, J. C.; Brown, R. A.; Cardone, V. J.; Coons, R. E.; Loomis, A. A.; Overland, J. E.; Peteherych, S.; Pierson, W. J.; Woiceshyn, P. M.; Wurtele, M. G.: Surface observations for the evaluation of geophysical measurements from Seasat. v204 p1408-1410 29 June 79.
- Wilkinson, D. A. See Carlen, P. L.
- Williams, A. C. See Lovenberg, W.
- Wilson, Allan C. See Cherry, Lorraine M.
- Wilson, Ronald S.: review of *The Psychology of Individual and Group Differences*, by Lee Willerman. v204 p729-730 18 May 79.
- Wilson, Victor J.: review of *Studies in Neurophysiology*, edited by A. K. McIntyre and R. Porter. v204 p50 6 Apr 79.
- Wine, Jeffrey J.: review of *Neurobiology of the Mauthner Cell*, edited by Donald S. Faber and Henri Korn. v204 p1193 15 June 79.
- Witter, James P.; Gatley, S. John; Balish, Edward: Distribution of nitrogen-13 from labeled nitrate ($^{13}\text{NO}_3^-$) in humans and rats. v204 p411-413 27 Apr 79.
- Woiceshyn, P. M. See Jones, W. Linwood. See also Wilkerson, J. C.
- Wolfe, Barry B. See Minneman, Kenneth P.
- Wolins, Leroy: review of *Girls and Science*, by Alison Kelly. v204 p295-296 20 Apr 79.
- Wong, C. S.: Carbon input to the atmosphere from forest fires (technical comment). v204 p210 13 Apr 79.
- Wong, R. K. S. and Prince, D. A.: Dendritic mechanisms underlying penicillin-induced epileptiform activity. v204 p1228-1231 15 June 79.
- Wood, G. E. See Eshleman, V. R.
- Wood, John A.: review of *Protostars and Planets*, edited by Tom Gehrels. v204 p1401 29 June 79.
- Woodwell, G. M.; Whittaker, R. H.; Reiners, W. A.; Likens, G. E.; Delwiche, C. C.; Botkin, D. B.: Where has all the carbon gone? (technical comment). v204 p1346 22 June 79.
- Wortzman, G. See Carlen, P. L.
- Wright, H. E., Jr.: review of *Ice Ages*, by John Imbrie and Katherine Palmer. v204 p751-753 18 May 79.
- Wurtele, M. G. See Jones, W. Linwood. See also Wilkerson, J. C.
- Wyatt, Richard Jed. See Perlow, Mark J.
- Yamarone, C. A. See Brown, J. W.
- Yatvin, M. B. See Weinstein, J. N.
- Yeates, C. M. See Bridge, H. S.
- Yen, Andrew and Pardee, Arthur B.: Role of nuclear size in cell growth initiation. v204 p1315-1317 22 June 79.
- Young, J. H. See Koch, V. R.
- Young, Kenneth C.: review of *Microphysics of Clouds and Precipitation*, by Hans R. Pruppacher and James D. Klett. v204 p50 6 Apr 79.
- Young, R. T. See White, C. W.
- Yussen, Steven R.: review of *Social Learning and Cognition*, by Ted L. Rosenthal and Barry J. Zimmerman. v204 p400 27 Apr 79.
- Zaharko, D. S. See Weinstein, J. N.
- Zoloth, Stephen R.; Petersen, Michael R.; Beecher, Michael D.; Green, Steven; Marler, Peter; Moody, David B.; Stebbins, William: Species-specific perceptual processing of vocal sounds by monkeys. v204 p870-873 25 May 79.
- Zucker, F. H. See Anderson, C. M.
- Zwickl, R. D. See Krimigis, S. M.
- Zwislocki, J. J. and Kletskey, E. J.: Tectorial membrane: a possible effect on frequency analysis in the cochlea. v204 p639-641 11 May 79.