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- Guengerich, F. Peter. See Robie-Suh, K.
- Guillemin, Roger. See Julliard, Jacques H.
- Gund, Peter; Andose, Joseph D.; Rhodes, Joe B.; Smith, Graham M.: Three-dimensional molecular modeling and drug design. v208 p1425-1431 27 June 80.
- Gupta, C.; Sonawane, B. R.; Yaffe, S. J.; Shapiro, B. H.: Phenobarbital exposure in utero: alterations in female reproductive function in rats. v208 p508-510 2 May 80.
- Gurney, Ashley B.: review of *The Great Dismal Swamp*, edited by Paul W. Kirk, Jr. v208 p738-739 16 May 80.
- Gurney, Mark E. and Konishi, Masakazu: Hormone-induced sexual differentiation of brain and behavior in zebra finches. v208 p1380-1383 20 June 80.
- Gustafson, Thane: Technology assessment, Soviet style. v208 p1343-1348 20 June 80.

H

- Hagler, A. T.; Osguthorpe, D. J.; Robson, B.: Monte Carlo simulation of water behavior around the dipeptide *N*-acetylalanyl-*N*-methylamide. v208 p599-601 9 May 80.
- Hall, Emory H.: Thermocline temperature differences and realizable energy (technical comment). v208 p1292 13 June 80.
- Hall, F. G. See MacDonald, R. B.
- Hall, Robert: Contact metamorphism by an ophiolite peridotite from Neyriz, Iran. v208 p1259-1262 13 June 80.
- Haller, Ronald G. and Drachman, Daniel B.: Alcoholic rhabdomyolysis: an experimental model in the rat. v208 p412-415 25 Apr 80.
- Hamilton, John A. See Stuart, Robert K.
- Handler, Philip: Public doubts about science (editorial). v208 p1093 6 June 80.
- Hansen, A. D. A. See Rosen, H.
- Hanson, Robert W. See Gerlovich, Jack A.
- Hardie, Lawrence A. See Harvie, Charles E.
- Harnad, Steven: Peer review: an experiment (letter). v208 p974, 976 30 May 80.
- Harris, Albert K.; Wild, Patricia; Stopak, David: Silicone rubber substrata: a new wrinkle in the study of cell locomotion. v208 p177-179 11 Apr 80.
- Harris, Edward D.; Blount, Johnnie E.; Leach, Roland M., Jr.: Localization of lysyl oxidase in hen oviduct: implications in egg shell membrane formation and composition. v208 p55-56 4 Apr 80.
- Harris, Stuart I.; Balaban, Robert S.; Mandel, Lazaro J.: Oxygen consumption and cellular ion transport: evidence for adenosine triphosphate to O_2 ratio near 6 in intact cell. v208 p1148-1150 6 June 80.
- Harris-Warrick, Ronald M. See Livingstone, Margaret S.
- Hartline, Beverley Karplus (research news): Coastal upwelling: physical factors feed fish. v208 p38-40 4 Apr 80. SS 433, what are you? v208 p1357-1360 20 June 80. Voyager beguiled by Jovian carousel. v208 p384-386 25 Apr 80. (letter): Upwelling agents? v208 p1088 6 June 80.
- Hartman, John A. See Heffner, Thomas G.
- Hartse, Kristyna M.; Roth, Thomas; Piccione, Paul M.; Zorick, Frank J.: Rebound insomnia (technical comment). v208 p423-424 25 Apr 80.
- Harvie, Charles E.; Weare, John H.; Hardie, Lawrence A.; Eugster, Hans P.: Evaporation of seawater: calculated mineral sequences. v208 p498-500 2 May 80.
- Harwood, J. J. See Beardmore, P.
- Haselton, F. R. and Scherer, P. W.: Bronchial bifurcations and respiratory mass transport. v208 p69-71 4 Apr 80.
- Hatch, Orrin G.: Stimulating research (letter). v208 p1412 27 June 80.
- Hayden, John H. See Rothstein, Howard.
- Hazlewood, Carlton. See Michael, Lloyd H.
- Heffner, Henry. See Heffner, Rickye.
- Heffner, Rickye and Heffner, Henry: Hearing in the elephant. v208 p518-520 2 May 80.
- Heffner, Thomas G.; Hartman, John A.; Seiden, Lewis S.: Feeding increases dopamine metabolism in the rat brain. v208 p1168-1170 6 June 80.
- Heikes, K. E. See Busse, F. H.
- Heilbron, J. L.: review of *Wolfgang Pauli: Wissenschaftlicher Briefwechsel mit Bohr, Einstein, Heisenberg, u.a.*, edited by A. Hermann, K. v. Meyenn, and V. F. Weisskopf. v208 p724-726 16 May 80.
- Hench, L. L.: Biomaterials. v208 p826-831 23 May 80.
- Hendricks, J. D.; Sinnhuber, R. O.; Loveland, P. M.; Pawlowski, N. E.; Nixon, J. E.: Hepatocarcinogenicity of glandless cottonseeds and cottonseed oil to rainbow trout. v208 p309-311 18 Apr 80.
- Hendry, Charles D. See Brezonik, Patrick L.
- Henker, Barbara. See Whalen, Carol K.
- Hickey, J. R.; Stowe, L. L.; Jacobowitz, H.; Pellegrino, P.; Maschhoff, R. H.; House, F.; Vonder Haar, T. H.: Initial solar irradiance determinations from Nimbus 7 cavity radiometer measurements. v208 p281-283 18 Apr 80.
- Hikade, D. A. See Stedman, D. H.
- Hilse, Heinz. See Oehme, Peter.
- Hine, Bromfield. See Marzullo, Giovanni.
- Hinko, Alexander. See Lustick, Sheldon.
- Hinman, C. Wiley. See Johnson, Jack D.
- Hirsch, Helmut V. B. See Tumosa, Nina.
- Hofer, Myron A. See Skolnick, Neil J.
- Hoffer, Barry J. See Oliver, Adolphus P.
- Hofmann, D. J. and Rosen, J. M.: Stratospheric sulfuric acid layer: evidence for an anthropogenic component. v208 p1368-1370 20 June 80.
- Hogaboom, G. Kurt; O'Donnell, John P.; Fedan, Jeffrey S.: Purinergic receptors: photoaffinity analog of adenosine triphosphate is a specific adenosine triphosphate antagonist. v208 p1273-1276 13 June 80.
- Holden, Constance (news and comment): Bern Dibner: science bibliophile. v208 p1012-1014 30 May 80. Big future for synthetics. v208 p576-577 9 May 80. Feds defend bubble meddle. v208 p577 9 May 80. Forensic use of hypnosis on the increase. v208 p1443-1444 27 June 80. High-tech sales to U.S.S.R. further reduced. v208 p36-37 4 Apr 80. Insider's account of pollution in U.S.S.R. v208 p380 25 Apr 80. Love Canal residents under stress. v208 p1242-1244 13 June 80. Maryland lures chip-makers East. v208 p479 2 May 80. Psychiatrists study Three-Mile trauma. v208 p37 4 Apr 80. Rain forests vanishing. v208 p378 25 Apr 80. Time for *Discover*. v208 p577 9 May 80. What is Siberian ulcer doing in Sverdlovsk? v208 p37 4 Apr 80.
- Holdowsky, Michael. See Pontecorvo, Giulio.
- Hollingworth, Robert M. and Murdock, Larry L.: Formamidate pesticides: octopamine-like actions in a firefly. v208 p74-76 4 Apr 80.
- Hood, Leroy E. See Raftery, Michael A.
- Hood, L. L. and Schubert, G.: Lunar magnetic anomalies and surface optical properties. v208 p49-51 4 Apr 80.
- Horner, Bonnie L. See McLaughlin, Charles A.
- Hornsby, Peter J. and Gill, Gordon N.: Loss of division potential in culture: aging or differentiation? (technical comment). v208 p1482-1483 27 June 80.
- House, F. See Hickey, J. R.
- House, Frederick B. See Gille, John C.
- Howell, Stephen H.; Walker, Linda L.; Dudley, R. K.: Cloned cauliflower mosaic virus DNA infects turnips (*Brassica rapa*). v208 p1265-1267 13 June 80.

- Hradek, Gary T. See Renston, Richard H.
 Hromas, Robert A.: Oral Roberts and objectivity (letter). v208 p1212 13 June 80.
 Hruska, Robert E. and Silbergeld, Ellen K.: Increased dopamine receptor sensitivity after estrogen treatment using the rat rotation model. v208 p1466-1468 27 June 80.
 Hubert, Helen B.; Fabsitz, Richard R.; Feinleib, Manning; Brown, Kenneth S.: Olfactory sensitivity in humans: genetic versus environmental control. v208 p607-609 9 May 80.
 Huffman, Donald M. See Gerlovich, Jack A.
 Hulm, J. K. and Matthias, B. T.: High-field, high-current superconductors. v208 p881-887 23 May 80.
 Hunkapiller, Michael W. See Raftery, Michael A.
 Hunten, Donald M.: Rings of Uranus: proposed model is unworkable (technical comment). v208 p625-626 9 May 80.
 Hurwitz, Jerard: review of *DNA Replication*, by Arthur Kornberg. v208 p723-724 16 May 80.
 Hyder, Charles L.: review of *Solar Flares*, edited by Peter A. Sturrock. v208 p491-492 2 May 80.

I, J, and K

- Iadarola, Michael J. See Gale, Karen.
 Jackson, J. B. C.: review of *Advances in Bryozoology*, edited by G. P. Larwood and M. B. Abbott. v208 p1255-1256 13 June 80.
 Jacobowitz, H. See Hickey, J. R.
 Jacoby, Larry L.: review of *Memory Organization and Structure*, edited by C. Richard Puff. v208 p1361-1362 20 June 80.
 Javadpour, Nasser. See Goldenberg, David M.
 Jelonek, Edward J., Jr. See Chavin, Walter.
 Johansson, T. B. See Lönnroth, M.
 Johnson, Jack D. and Hinman, C. Wiley: Oils and rubber from arid land plants. v208 p460-464 2 May 80.
 Johnson, T. V. See Fanale, F. P.
 Jones, Albert L. See Renston, Richard H.
 Jones, Gordon H. See McLaughlin, Charles A.
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 Julliard, Jacques H.; Shibasaki, Tamotsu; Ling, Nicholas; Guillemin, Roger: High-molecular-weight immunoreactive β -endorphin in extracts of human placenta is a fragment of immunoglobulin G. v208 p183-185 11 Apr 80.
 Jungers, William L. and Stern, Jack T., Jr.: Telemetered electromyography of forelimb muscle chains in gibbons (*Hylobates lar*). v208 p617-619 9 May 80.
 Junghans, R. P.: Mercury in the ocean (letter). v208 p6 4 Apr 80.
 Kales, Anthony; Scharf, Martin B.; Kales, Joyce D.; Soldatos, Constantin R.: Rebound insomnia (technical comment). v208 p424 25 Apr 80.
 Kales, Joyce D. See Kales, Anthony.
 Kane, Gordon L. See Steneck, Nicholas H.
 Kaneoka, Ichiro and Takaoka, Nobuo: Rare gas isotopes in Hawaiian ultramafic nodules and volcanic rocks: constraint on genetic relationships. v208 p1366-1368 20 June 80.
 Kargon, Robert H.: review of *The Sciences in the American Context*, edited by Nathan Reingold. v208 p705-706 16 May 80.
 Kassel, Jeffrey and Weinberger, David: Peanut butter test (letter). v208 p974 30 May 80.
 Katz, R. Nathan: High-temperature structural ceramics. v208 p841-847 23 May 80.
 Kauffman, Stuart A.: review of *Determinants of Spatial Organization*, edited by Stephen Subtelny and Irwin R. Konigsberg. v208 p493 2 May 80.
 Kazan, B.: Materials aspects of display devices. v208 p927-936 23 May 80.
 Kear, B. H. and Thompson, E. R.: Aircraft gas turbine materials and processes. v208 p847-856 23 May 80.

- Kemp, Emory L.: review of *Arch Bridges and Their Builders, 1735-1835*, by Ted Rud-dock; *The Britannia Bridge*, by Nathan Rosenber and Walter G. Vincenti; and *Robert Maillart's Bridges*, by David P. Billington. v208 p727-730 16 May 80.
 Kennard, Edward A.: review of *Portraits of "the Whiteman,"* by Keith H. Basso. v208 p731 16 May 80.
 Kermicle, Jerry L.: Probing the component structure of a maize gene with transposable elements. v208 p1457-1459 27 June 80.
 Kerr, Richard A. (research news): Carbon budget not so out of whack. v208 p1358-1359 20 June 80. Mount St. Helens: an unpredictable foe. v208 p1446-1448 27 June 1980. A new kind of storm beneath the sea. v208 p484-486 2 May 80. Quake prediction by animals gaining respect. v208 p695-696 16 May 80.
 Kim, Edmund E. See Goldenberg, David M.
 Kimura, Hiroshi; McGeer, Patrick L.; Peng, Frank; McGeer, Edith G.: Choline acetyltransferase-containing neurons in rodent brain demonstrated by immunohistochemistry. v208 p1057-1059 30 May 80.
 Kimura, Sadac. See Lewis, Randolph V.
 King, Mary-Claire; Go, Rodney C. P.; Elston, Robert C.; Lynch, Henry T.; Petrakis, Nicholas L.: Allele increasing susceptibility to human breast cancer may be linked to the glutamate-pyruvate transaminase locus. v208 p406-408 25 Apr 80.
 Kingston, Richard S. See Wenger, David A.
 Kinoshita, Jin H. See Goosey, John D.
 Kinsman, K. R. See Beardmore, P.
 Kiorpes, Lynne. See Boothe, Ronald G.
 Kipphut, George W. See Martens, Christopher.
 Kircher, C. J. and Murakami, M.: Josephson tunnel-junction electrode materials. v208 p944-950 23 May 80.
 Kleckner, Robert C.: Swim bladder volume maintenance related to initial oceanic migratory depth in silver-phase *Anguilla rostrata*. v208 p1481-1482 27 June 80.
 Klowden, Marc J.: Large doses of ecdysterone may inhibit mosquito behavior non-specifically (technical comment). v208 p1062-1063 30 May 80.
 Klump, J. Val. See Martens, Christopher S.
 Koch-Weser, Jan. See Fozard, John R.
 Kolata, Gina Bari (news and comment): Dialysis after nearly a decade. v208 p473-474, 476 2 May 80. Discovery by decree. v208 p377 25 Apr 80. Love Canal: false alarm caused by botched study. v208 p1239-1242 13 June 80. NMC thrives selling dialysis. v208 p379, 381-382 25 Apr 80. Prior restraints on cryptography considered. v208 p1442-1443 27 June 80. (research news): FDA says no to Anturane. v208 p1130-1132 6 June 80. New codes coming into use. v208 p694-695 16 May 80.
 Kolattukudy, P. E.: Biopolyester membranes of plants: cutin and suberin. v208 p990-1000 30 May 80.
 Konigsberg, William H. See Carson, Steven.
 Konishi, Masakazu. See Gurney, Mark E.
 Korn, Henri. See Faber, Donald S.
 Kotzin, Brian L. and Strober, Samuel: Role of the spleen in the growth of a murine B cell leukemia. v208 p59-61 4 Apr 80.
 Kravitz, Edward A. See Livingstone, Margaret.
 Kruskal, Joseph B.: Scanner development (letter). v208 p132 11 Apr 80.
 Kudoh, Tooru. See Wenger, David A.
 Kuhar, Michael J. See Palacios, Jose M.
 Kunkel, Joseph G.; Cherry, Lorraine M.; Case, Susan M.; Wilson, Allan C.: M-statistics and morphometric divergence (technical comment). v208 p1060-1061 30 May 80.
 Kushiro, I. See Virgo, D.

L

- Lange, D. G.; Roerig, S. C.; Fujimoto, J. M.; Wang, R. I. H.: Absence of cross-tolerance to heroin in morphine-tolerant mice. v208 p72-74 4 Apr 80.

- Larkin, Jill; McDermott, John; Simon, Dorothea P.; Simon, Herbert A.: Expert and novice performance in solving physics problems. v208 p1335-1342 20 June 80.
 Lattman, Eaton E.: Simian virus 40 crystals. v208 p1048-1050 30 May 80.
 Lax, P. D. See Bers, Lipman.
 Lazar, Irving. See Darlington, Richard B.
 Leach, Roland M., Jr. See Harris, Edward D.
 Lebowitz, Joel L.: review of *Scaling Concepts in Polymer Physics*, by Pierre-Gilles de Gennes. v208 p1140-1141 6 June 80.
 Lecar, Myron: review of *The Large-Scale Characteristics of the Galaxy*, edited by W. B. Burton. v208 p1256 13 June 80.
 Lee, Kai N.: A federalist strategy for nuclear waste management. v208 p679-684 16 May 80.
 Leibowitz, H. W. See White, Keith D.
 Leisman, Gary; Cohn, Daniel H.; Nealsen, Kenneth H.: Bacterial origin of luminescence in marine animals. v208 p1271-1273 13 June 80.
 Leveno, Kenneth. See Parker, C. Richard, Jr.
 Levenson, Milton and Rahn, Frank J.: Is evacuation the best policy? (letter). v208 p131-132 11 Apr 80.
 Levesque, Murina J. See Nerem, Robert M.
 Levey, Raphael. See Raum, Donald.
 Levin, Leonid A. See Blum, Lenore.
 Levinstone, D. S. See Bell, E.
 Lewis, J. S.: review of *Origin of the Earth and Moon*, by A. E. Ringwood. v208 p492 2 May 80.
 Lewis, James W.; Cannon, J. Timothy; Liebeskind, John C.: Opioid and nonopioid mechanisms of stress analgesia. v208 p623-625 9 May 80.
 Lewis, Randolph V.; Stern, Alvin S.; Kimura, Sadac; Rossier, Jean; Stein, Stanley; Udenfriend, Sidney: An about 50,000-dalton protein in adrenal medulla: a common precursor of [Met]- and [Leu]enkephalin. v208 p1459-1461 27 June 80.
 Liebeskind, John C. See Lewis, James W.
 Lien, Jon: review of *Behavior of Marine Animals*, edited by Howard E. Winn and Bori L. Olla. v208 p279-280 18 Apr 80.
 Lightner, David A. See McDonagh, Antony F.
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 Lindsley, Donald B. See Rohrbaugh, John W.
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 Livingstone, Margaret S.; Harris-Warrick, Ronald M.; Kravitz, Edward A.: Serotonin and octopamine produce opposite postures in lobsters. v208 p76-79 4 Apr 80.
 Lohrmann, R.; Bridson, P. K.; Orgel, L. E.: Efficient metal-ion catalyzed template-directed oligonucleotide synthesis. v208 p1464-1465 27 June 80.
 Lönnroth, M.; Johansson, T. B.; Steen, P.: Sweden beyond oil: nuclear commitments and solar options. v208 p557-563 9 May 80.
 Loucks, Orie L.: review of *Pine Barrens*, by Richard T. T. Forman. v208 p492-493 2 May 80.
 Loveland, P. M. See Hendricks, J. D.
 Lowrey, Alfred H. See Repace, James L.
 Loy, Rebekah and Milner, Teresa A.: Sexual dimorphism in extent of axonal sprouting in rat hippocampus. v208 p1282-1284 13 June 80.
 Lucas, Debora. See Rovee-Collier, Carolyn K.
 Lustick, Sheldon; Adam, Margaret; Hinko, Alexander: Interaction between posture, color, and the radiative heat load in birds. v208 p1052-1053 30 May 80.
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- MacDonald, John F. See Barker, Jeffrey L.
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 MacDonald, R. B. and Hall, F. G.: Global crop forecasting. v208 p670-679 16 May 80.

- Mac Lane, Saunders. See Alperin, Jonathan. See also Bers, Lipman.
- Mahoney, Elieen M. See Chang, Lucy M. S.
- Mahoney, Michael S.: review of *The Historical Development of the Calculus*, by C. H. Edwards, Jr. v208 p1139-1140 6 June 80.
- Malinconico, Lawrence L. See Stoiber, Richard E.
- Mallorga, Pierre. See Gallager, Dorothy W.
- Mandel, Lazaro J. See Harris, Stuart I.
- Mangum, Dorothea C.: Sea anemone neuromuscular responses in anaerobic conditions. v208 p1177-1178 6 June 80.
- Manicourt, D. See Orloff, S.
- Mann, C. John: review of *Lithostratigraphic Analysis of Sedimentary Basins*, by C. E. B. Conybeare. v208 p393 25 Apr 80.
- March, Robert H.: review of *Aesthetics and Science*. v208 p726 16 May 80.
- Marcus, Deborah. See Raum, Donald.
- Mare, Robert D.: review of *Who Gets Ahead?*, by Christopher Jencks and 11 others. v208 p707-709 16 May 80.
- Marek, L. F. See Bell, E.
- Markson, Ralph and Muir, Michael: Solar wind control of the earth's electric field. v208 p979-990 30 May 80.
- Marsh, Mary E. and Sass, Ronald L.: Aragonite twinning in the molluscan bivalve hinge ligament. v208 p1262-1263 13 June 80.
- Marshall, Eliot (news and comment): Antibiotics in the barnyard. v208 p376-379 25 Apr 80. Bergland opposed on farm machine policy. v208 p578-580 9 May 80. Carter creates a sinewy NRC. v208 p34 4 Apr 80. Commissioner Gilinsky challenges new NRC plan. v208 p383 25 Apr 80. Congress challenges MX basing plan. v208 p1007-1009 30 May 80. Energy forecasts: sinking to new lows. v208 p1353-1354, 1356 20 June 80. Math center protests Army contract terms. v208 p1122-1123 6 June 80. MX missile: a step backward for metric. v208 p383 25 Apr 80. MX on land or sea? v208 p155 11 Apr 80. Nerve gas in Afghanistan? v208 p1016-1017 30 May 80. NSF finds slower growth in scientific work force. v208 p383 25 Apr 80. NSF searches for new leaders. v208 p1123 6 June 80. Oil embargo might cost \$270 billion, CBO reports. v208 p1123 6 June 80. Texas puts together winning fusion team. v208 p158, 160 11 Apr 80.
- Marshall, Larry G.: review of *Splendid Isolation*, by George Gaylord Simpson. v208 p719-720 16 May 80.
- Martens, Christopher S.; Kipphut, George W.; Klump, J. Val: Sediment-water chemical exchange in the coastal zone traced by in situ radon-222 flux measurements. v208 p285-288 18 Apr 80.
- Martin, James G.: Saccharin controversy (letter). v208 p1086 6 June 80.
- Marx, Jean L. (research news): Calmodulin: a protein for all seasons. v208 p274-276 18 Apr 80. Coronary artery spasms and heart disease. v208 p1127-1130 6 June 80. Gene transfer given a new twist. v208 p386-387 25 Apr 80.
- Marzullo, Giovanni and Hine, Bromfield: Opiate receptor function may be modulated through an oxidation-reduction mechanism. v208 p1171-1173 6 June 80.
- Maschhoff, R. H. See Hickey, J. R.
- Mason, Karen Oppenheim: review of *Fair Science*, by Jonathan R. Cole. v208 p277-278 18 Apr 80.
- Masters, Bettie Sue. See Dees, Jane Howard.
- Matson, D. L. See Fanale, F. P.
- Matthias, B. T.; Stewart, G. R.; Giorgi, A. L.; Smith, J. L.; Fisk, Z.; Barz, H.: Enhancement of superconductivity through lattice softening. v208 p401-402 25 Apr 80.
- Matthias, B. T. See Hulm, J. K.
- Maugh, Thomas H., II (research news): Fourier transform comes to photoacoustic spectroscopy. v208 p167 11 Apr 80. IC versatility promotes competition. v208 p164-168 11 Apr 80. A new interferometer for inexpensive FT-IR. v208 p166-167 11 Apr 80.
80. New tool to monitor sulfuric acid emissions. v208 p165 11 Apr 80. Video—a new approach to chart recorders. v208 p165 11 Apr 80.
- Mays, Lawrence E. and Sparks, David L.: Saccades are spatially, not retinocentrically, coded. v208 p1163-1165 6 June 80.
- McClain, E. Paul: Radioactivity in the Urals (letter). v208 p652, 654 16 May 80.
- McCollum, Clifford G. See Gerlovich, Jack A.
- McCray, Richard. See Conti, Peter S.
- McCullam, Jessie: Peanut butter: a solvent? (letter). v208 p446 2 May 80.
- McDermott, John. See Larkin, Jill.
- McDonagh, Antony F.; Palma, Lucita A.; Lightner, David A.: Blue light and bilirubin excretion. v208 p145-151 11 Apr 80.
- McGeer, Edith G. See Kimura, Hiroshi.
- McGeer, Patrick L. See Kimura, Hiroshi.
- McKenna, Malcolm C.: review of *Mesozoic Mammals*, edited by Jason A. Lillegraven, Zofia Kielan-Jaworowska, and William A. Clemens. v208 p718-719 16 May 80.
- McLaughlin, Charles A.; Schwartzman, Steven M.; Horner, Bonnie L.; Jones, Gordon H.; Moffatt, John G.; Nestor, John J., Jr.; Tegg, Derek: Regression of tumors in guinea pigs after treatment with synthetic muramyl dipeptides and trehalose dimycolate. v208 p415-416 25 Apr 80.
- McMillin-Wood, Jeanie. See Michael, Lloyd H.
- McNichols, J. L.; Ginell, W. S.; Cory, J. S.: Thermocline temperature differences and realizable energy (technical comment). v208 p1293 13 June 80.
- Meinwald, Jerrold. See Eisner, Thomas.
- Mencher, Frederick M. See Young, Richard Edward.
- Mercola, Karen E.; Stang, Howard D.; Browne, Jeffrey; Salser, Winston; Cline, Martin J.: Insertion of a new gene of viral origin into bone marrow cells of mice. v208 p1033-1035 30 May 80.
- Merrill, C. See Bell, E.
- Mesulam, M.-Marsel. See Brushart, Thomas M.
- Meyers, Philip A.: Upwelling agents? (letter). v208 p1086, 1088 6 June 80.
- Michael, Lloyd H.; Seitz, Patricia; McMillin-Wood, Jeanie; Chang, Donald; Hazlewood, Carlton; Entman, Mark L.: Mitochondrial water in myocardial ischemia: investigation with nuclear magnetic resonance. v208 p1267-1269 13 June 80.
- Michel, Helen V. See Alvarez, Luis W.
- Milch, Jerome: review of *The Uses and Abuses of Forecasting*, edited by Tom Whiston. v208 p1449 27 June 80.
- Miller, Dale T.: review of *Human Inference*, by Richard Nisbett and Lee Ross. v208 p713-714 16 May 80.
- Miller, G. A. See Sundquist, Eric T.
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- Mizoguchi, H. See DeMayo, F. J.
- Moffatt, John G. See McLaughlin, Charles A.
- Montgomery, Deane. See Bers, Lipman.
- Moore, Gordon P.; Costantini, Franklin D.; Posakony, James W.; Davidson, Eric H.; Britten, Roy J.: Evolutionary conservation of repetitive sequence expression in sea urchin egg RNAs. v208 p1046-1048 30 May 80.
- Morgenstern, Eveline. See Oehme, Peter.
- Mort, J.: Conductive polymers. v208 p819-825 23 May 80.
- Moskowitz, Michael A. See Peroutka, Stephen J.
- Mosteller, Frederick: Regulation of social research (editorial). v208 p1219 13 June 80.
- Movshon, J. Anthony: review of *Stereoscopic Vision*. v208 p171 11 Apr 80.
- Muir, Michael. See Markson, Ralph.
- Murakami, M. See Kircher, C. J.
- Murdoch, Larry L. See Hollingworth, Robert M.
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- Myers, Charles W. See Daly, John W.
- Myers, Charles W. See Flier, Jeffrey.
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- N**
- Nag, Asish C. and Cheng, Mei: Intercellular adhesion: coconstruction of contractile heart tissue by cells of different species. v208 p1150-1152 6 June 80.
- Nagel, Jennifer A. and Satinoff, Evelyn: Mild cold exposure increases survival in rats with medial preoptic lesions. v208 p301-303 18 Apr 80.
- Naldrett, A. J. and Duke, J. M.: Platinum metals in magmatic sulfide ores. v208 p1417-1424 27 June 80.
- Nealson, Kenneth H. See Leisman, Gary.
- Nebes, Robert D.: review of *Neuropsychology of Left-Handedness*, edited by Jeannine Herron. v208 p709-711 16 May 80.
- Nelson, Michael A. See Ginsburg, Arthur P.
- Nerem, Robert M.; Levesque, Murina J.; Cornhill, J. Fredrick: Social environment as a factor in diet-induced atherosclerosis. v208 p1475-1476 27 June 80.
- Nestor, John J., Jr. See McLaughlin, Charles A.
- Nixon, J. E. See Hendricks, J. D.
- Noll, Roger G.: review of *Energy Future*, edited by Robert Stobaugh and Daniel Yergin; *Energy: The Next Twenty Years*; and *Energy in America's Future*, by Sam H. Schurr, Joel Darmstadter, Harry Perry, William Ramsay, and Milton Russell. v208 p701-702 16 May 80.
- Norenberg, Michael D. See Parker, Keith K.
- Novakov, T. See Rosen, H.
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- O'Donnell, John P. See Hogaboom, G. Kurt.
- O'Donnell, Margaret. See Diamond, Louis.
- Oehme, Peter; Hilde, Heinz; Morgenstern, Eveline; Göres, Erhard: Substance P: does it produce analgesia or hyperalgesia? v208 p305-307 18 Apr 80.
- Okrent, David: Comment on societal risk. v208 p372-375 25 Apr 80.
- Oliver, Adolphus P.; Hoffer, Barry J.; Wyatt, Richard Jed: Kindling induces long-lasting alterations in response of hippocampal neurons to elevated potassium levels in vitro. v208 p1264-1265 13 June 80.
- Omura, Hideo. See Brownell, Robert L., Jr.
- Ordóñez, Luis A. See Roche, Marcel.
- Orgel, L. E. See Lohrmann, R.
- Orloff, S. and Manicourt, D.: Osteoporosis: a cautionary note (letter). v208 p240 18 Apr 80.
- Ornduff, Robert: review of *The Biology and Taxonomy of the Solanaceae*, edited by J. G. Hawkes, R. N. Lester, and A. D. Skelding. v208 p170-171 11 Apr 80.
- Orona, Edward. See Gabriel, Michael.
- Osborne, A. R. and Burch, T. L.: Internal solitons in the Andaman Sea. v208 p451-460 2 May 80.
- Osguthorpe, D. J. See Hagler, A. T.
- Oyama, Vance I.; Carle, Glenn C.; Woeller, Fritz: Corrections in the Pioneer Venus sounder probe gas chromatographic analysis of the lower Venus atmosphere. v208 p399-401 25 Apr 80.
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- Pack, Donald H.: Precipitation chemistry patterns: a two-network data set. v208 p1143-1145 6 June 80.
- Palacios, Jose M. and Kuhar, Michael J.: Beta-adrenergic-receptor localization by light microscopic autoradiography. v208 p1378-1380 20 June 80.
- Palma, Lucita A. See McDonagh, Antony F.
- Palmer, Richard G.: review of *La Matière Malt Condensée*, edited by Roger Balian, Roger Maynard, and Gerard Toulouse. v208 p1025 30 May 80.
- Palmerino, Claire C.; Rusiniak, Kenneth W.;

- Garcia, John: Flavor-illness aversions: the peculiar roles of odor and taste in memory for poison. v208 p753-755 16 May 80.
- Parish, M. B.: Molecular beam epitaxy. v208 p916-922 23 May 80.
- Parker, C. Richard, Jr.; Simpson, Evan R.; Bilheimer, David W.; Leveno, Kenneth; Carr, Bruce R.; MacDonald, Paul C.: Inverse relation between low-density lipoprotein-cholesterol and dehydroisoandrosterone sulfate in human fetal plasma. v208 p512-514 2 May 80.
- Parker, Keith K.; Norenberg, Michael D.; Vernadakis, Antonia: "Transdifferentiation" of C6 glial cells in culture. v208 p179-181 11 Apr 80.
- Parks, Norris J. See Raabe, Otto G.
- Parshall, George W.: Organometallic chemistry in homogeneous catalysis. v208 p1221-1224 13 June 80.
- Parsons, C. Lowell; Stauffer, Charles; Schmidt, Joseph D.: Bladder-surface glycosaminoglycans: an efficient mechanism of environmental adaptation. v208 p605-607 9 May 80.
- Part, Marie-Louise. See Fozard, John R.
- Pasternak, Gavril W.; Childers, Stephen R.; Snyder, Solomon H.: Opiate analgesia: evidence for mediation by a subpopulation of opiate receptors. v208 p514-516 2 May 80.
- Paulson, Glenn: Planning for nuclear accidents (letter). v208 p1412 27 June 80.
- Pawlowski, N. E. See Hendricks, J. D.
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- Pedersen, Robert C.; Brownie, Alexander C.; Ling, Nicholas: Pro-adrenocorticotropin/endorphin-derived peptides: coordinate action on adrenal steroidogenesis. v208 p1044-1046 30 May 80.
- Pellegrino, P. See Hickey, J. R.
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- Penn, Theodore Z.: review of *A History of Industrial Power in the United States, 1780-1930*, by Louis C. Hunter. v208 p1451-1452 27 June 80.
- Penn, Thomas Clifton: New methods of processing silicon slices. v208 p923-926 23 May 80.
- Penzias, Arno A.: Nuclear processing and isotopes in the galaxy. v208 p663-669 16 May 80.
- Perez-Albuera, Evelio A. and Tyan, Yuan-Sheng: Photovoltaic materials. v208 p902-907 23 May 80.
- Perl, Daniel P. and Brody, Arnold R.: Alzheimer's disease: x-ray spectrometric evidence of aluminum accumulation in neurofibrillary tangle-bearing neurons. v208 p297-299 18 Apr 80.
- Peroutka, Stephen J.; Moskowitz, Michael A.; Reinhard, John F., Jr.; Snyder, Solomon H.: Neurotransmitter receptor binding in bovine cerebral microvessels. v208 p610-612 9 May 80.
- Petrakis, Nicholas L. See King, Mary-Claire.
- Phillips, M. Ian: review of *The Physiology of Thirst and Sodium Appetite*, by J. T. Fitzsimons. v208 p711-712 16 May 80.
- Phillips, Ronald E.; Blevins, Robert L.; Thomas, Grant W.; Frye, Wilbur W.; Phillips, Shirley H.: No-tillage agriculture. v208 p1108-1113 6 June 80.
- Phillips, Shirley H. See Phillips, Ronald E.
- Piccione, Paul M. See Hartse, Kristyna M.
- Pickard, Barbara G.: review of *Physiology of Movements*, edited by W. Haupt and M. E. Feinleib. v208 p391-392 25 Apr 80.
- Pierce, William S.; Donachy, James H.; Rosenberg, Gerson; Baier, Robert E.: Calcification inside artificial hearts: inhibition by warfarin-sodium. v208 p601-603 9 May 80.
- Pleban, Patricia: Cadmium concentrations in blood (technical comment). v208 p520 2 May 80.
- Pollack, Robert: review of *Hormones and Cell Culture*, edited by Gordon H. Sato and Russell Ross. v208 p392-393 25 Apr 80.
- Pontecorvo, Giulio; Wilkinson, Maurice; Anderson, Ronald; Holdowsky, Michael: Contribution of the ocean sector to the United States economy. v208 p1000-1006 30 May 80.
- Pope, Carl: Brown's administrative philosophy (letter). v208 p351 25 Apr 80.
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- Pound, R. V.: Radiant heat for energy conservation. v208 p494-495 2 May 80.
- Powell, Jeffrey R.; Tabachnick, Walter J.; Arnold, Jonathan: Genetics and the origin of a vector population: *Aedes aegypti*, a case study. v208 p1385-1387 20 June 80.
- Prakash, Nellikunja J. See Fozard, John R.
- Price, David E.: review of *Toward the Endless Frontier*, by Ken Hechler. v208 p703 16 May 80.

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- Quigg, Chris: review of *Relativistic Particle Physics*, by Hartmut M. Pilkuhn. v208 p1025-1026 30 May 80.
- Raabe, Otto G.; Book, Steven A.; Parks, Norris J.: Bone cancer from radium: canine dose response explains data for mice and humans. v208 p61-64 4 Apr 80.
- Raftery, Michael A.; Hunkapiller, Michael W.; Strader, Catherine D.; Hood, Leroy E.: Acetylcholine receptor: complex of homologous subunits. v208 p1454-1457 27 June 80.
- Rahn, Frank J. See Levenson, Milton.
- Ramirez, V. D.; Dluzen, D.; Lin, D.: Progesterone administration in vivo stimulates release of luteinizing hormone-releasing hormone in vitro. v208 p1037-1039 30 May 80.
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- Raum, Donald; Marcus, Deborah; Alper, Chester A.; Levey, Raphael; Taylor, Paul D.; Starzl, Thomas E.: Synthesis of human plasminogen by the liver. v208 p1036-1037 30 May 80.
- Reamer, D. C. and Zoller, W. H.: Selenium biomethylation products from soil and sewage sludge. v208 p500-502 2 May 80.
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- Remy, Winfried and Remy, Renate: Devonian gametophytes with anatomically preserved gametangia. v208 p295-296 18 Apr 80.
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- Renston, Richard H.; Jones, Albert L.; Christiansen, William D.; Hradek, Gary T.; Underdown, Brian J.: Evidence for a vesicular transport mechanism in hepatocytes for biliary secretion of immunoglobulin A. v208 p1276-1278 13 June 80.
- Repache, James L. and Lowrey, Alfred H.: Indoor air pollution, tobacco smoke, and public health. v208 p464-472 2 May 80.
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- Roberts, D. H. See Greenfield, P. E.
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- Robie-Suh, K.; Robinson, R.; Gelboin, H. V.; Guengerich, F. Peter: Aryl hydrocarbon hydroxylase is inhibited by antibody to rat liver cytochrome P-450. v208 p1031-1033 30 May 80.

- Robinson, Arthur L. (research news): Do the Japanese make better IC's? v208 p585 9 May 80. Giant corporations from tiny chips grow. v208 p480-484 2 May 80. New ways to make microcircuits smaller. v208 p1019-1022 30 May 80. Nuclear evidence that neutrinos have mass. v208 p697 16 May 80. Options for preparative and analytical HPLC. v208 p161-163 11 Apr 80. Perilous times for U.S. microcircuit makers. v208 p582-586 9 May 80. Portable elemental analyzers pushed. v208 p163-164 11 Apr 80. Problems with ultraminiaturized transistors. v208 p1246-1249 13 June 80. What is a transistor? v208 p1247 13 June 80.
- Robinson, R. See Robie-Suh, K.
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- Roche, Marcel and Ordóñez, Luis A.: International politics and science: Frank Press in Venezuela. v208 p151-153 11 Apr 80.
- Roerig, S. C. See Lange, D. G.
- Rogers, Eric A. See Talbot, Christopher J.
- Rohrbaugh, John W.; Syndulko, Karl; Sanquist, Thomas F.; Lindsley, Donald B.: Synthesis of the contingent negative variation brain potential from noncontingent stimulus and motor elements. v208 p1165-1168 6 June 80.
- Roll, Barbara Honeyman: Pere Village remembers Margaret Mead (AAAS). v208 p41-42 4 Apr 80.
- Rose, Kenneth D.: Clarkforkian land-mammal age: revised definition, zonation, and tentative intercontinental correlations. v208 p744-746 16 May 80.
- Rosen, H.; Hansen, A. D. A.; Dod, R. L.; Novakov, T.: Soot in urban atmospheres: determination by an optical absorption technique. v208 p741-744 16 May 80.
- Rosen, J. M. See Hofmann, D. J.
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- Rosenberg, Norman J.: review of *Proceedings of the Symposium on Drought in Botswana*, edited by Madalon T. Hinchey. v208 p736 16 May 80.
- Rossant, J. and Frels, W. I.: Interspecific chimeras in mammals: successful production of live chimeras between *Mus musculus* and *Mus caroli*. v208 p419-421 25 Apr 80.
- Rossier, Jean. See Lewis, Randolph V.
- Roth, Thomas. See Hartse, Kristyna M.
- Rothstein, Howard; Van Wyk, Judson J.; Hayden, John H.; Gordon, Sheldon R.; Weinsieder, Allan: Somatomedin C: restoration in vivo of cycle traverse in G/G, blocked cells of hypophysectomized animals. v208 p410-412 25 Apr 80.
- Rovee-Collier, Carolyn K.; Sullivan, Margaret W.; Enright, Mary; Lucas, Debora; Fagen, Jeffrey W.: Reactivation of infant memory. v208 p1159-1161 6 June 80.
- Roy, Rustum: "Retreading" Ph.D.'s (letter). v208 p1088 6 June 80.
- Royce, Jacqueline M. See Darlington, Richard B.
- Rusiniak, Kenneth W. See Palmerino, Claire C.
- Rusoff, Anne C. and Easter, Stephen S., Jr.: Order in the optic nerve of goldfish. v208 p311-312 18 Apr 80.
- Ryan, James W. See Ryan, Una S.
- Ryan, Una S.; Schultz, Duane R.; Del Vecchio, Peter J.; Ryan, James W.: Endothelial cells of bovine pulmonary artery lack receptors for C3b for the Fc portion of immunoglobulin G. v208 p748-749 16 May 80.

S

- Saito, Atsushi; Sankaran, Hariharan; Goldfine, Ira D.; Williams, John A.: Cholecystokinin receptors in the brain: characterization and distribution. v208 p1155-1156 6 June 80.
- Salser, Winston. See Mercola, Karen E.
- Salzberg, B. M. See Senseman, D. M.
- Samson, Herman H. See Diaz, Jaime.
- Samulski, Thaddeus and Shrivastava, Prakash N.: Photoluminescent thermometer probes: temperature measurements in mi-

- crowave fields. v208 p193-194 11 Apr 80.
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Simon, Julian L.: Resources, population, environment: an oversupply of false bad news. v208 p1431-1437 27 June 80.
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Sleight, Arthur W.: Heterogeneous catalysts. v208 p895-900 23 May 80.
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Smith, R. Jeffrey (news and comment): Budget cut details. v208 p273 18 Apr 80. CIA charter proposals die in Congress. v208 p1015 30 May 80. Controversial scientist considers leaving NCI. v208 p156 11 Apr 80. EPA announces toxic waste controls. v208 p581 9 May 80. Experts endorse biomass energy. v208 p1018 30 May 80. Fight brewing over reactor fuel for India. v208 p1124-1125 6 June 80. Latest saccharin tests kill FDA proposal. v208 p154-156 11 Apr 80. Nonproliferation policy challenged. v208 p478 2 May 80. NRC skirts safety issues in export approval. v208 p1014-1015 30 May 80. Officials debate nuclear policy shift. v208 p1126 6 June 80. Potential bomb-builders. v208 p1125 6 June 80. Proposals to study veterans criticized. v208 p1015 30 May 80. Proxmire reenters the ring after scientist lands a hit. v208 p156-157 11 Apr 80. R & D will share in budget cuts. v208 p160 11 Apr 80. Science projects face cuts, cancellations. v208 p272-273 18 Apr 80. SST supporters fly above the economic fray. v208 p157 11 Apr 80. U.S. urged to reprocess nuclear fuel. v208 p1352-1353 20 June 80.
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Sparkes, Robert S.; Sparkes, Maryellen C.; Wilson, Miriam G.; Towner, Joseph W.; Benedict, William; Murphree A. Linn; Yunis, Jorge J.: Regional assignment of genes for human esterase D and retinoblastoma to chromosome band 13q14. v208 p1042-1044 30 May 80.
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Steen, P. See Lönnroth, M.
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Stone, Doris: review of *Ancient Panama*, by Mary W. Helms. v208 p591 9 May 80.
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Sures, Irmi; Goeddel, David V.; Gray, Alane; Ullrich, Axel: Nucleotide sequence of human preproinsulin complementary DNA. v208 p57-59 4 Apr 80.
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- Tabachnick, Walter J. See Powell, Jeffrey R.
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Turlapaty, Prasad D. M. V. and Altura, Burton M.: Magnesium deficiency produces spasms of coronary arteries: relationship to etiology of sudden death ischemic heart disease. v208 p198-200 11 Apr 80.
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- Udenfriend, Sidney. See Lewis, Randolph V.
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Van Flandern, Thomas C.: Rings of Uranus: proposed model is unworkable (technical comment). v208 p627 9 May 80.
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- Vayenas, C. G. and Farr, R. D.: Cogeneration of electric energy and nitric oxide. v208 p593-594 9 May 80.
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 vom Saal, Frederick S. and Bronson, F. H.: Sexual characteristics of adult female mice are correlated with their blood testosterone levels during prenatal development. v208 p597-599 9 May 80.
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- Wade, Nicholas (news and comment): Another smallpox scare. v208 p579 9 May 80. BW and recombinant DNA. v208 p271 18 Apr 80. Cloning gold rush turns basic biology into big business. v208 p688-689 691-692 16 May 80. Court says lab-made life can be patented. v208 p1445 27 June 80. Does man alone have language? Apes reply in riddles, and a horse says neigh. v208 p1349-1351 20 June 80. Fierce bees get fat and happy. v208 p1441 27 June 80. Hybridomas: a potent new biotechnology. v208 p692-693 16 May 80. Inventor of hybridoma technology failed to file for patent. v208 p693 16 May 80. New horse may lead interferon race. v208 p1441 27 June 80. Pope issues warning to scientists. v208 p1441 27 June 80. Roll with coal. v208 p1008 30 May 80. Supreme Court hears argument on patenting life forms. v208 p31-32 4 Apr 80. Three new entrants in gene splicing derby. v208 p690 16 May 80. Vance, in last act, turned to Iran scholars. v208 p687 16 May 80.
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- Weinberger, David. See Kassel, Jeffrey.
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 Wenger, David A.; Sattler, Martha; Kudoh, Tooru; Snyder, Stanley P.; Kingston, Richard S.: Niemann-Pick disease: a genetic model in Siamese cats. v208 p1471-1473 27 June 80.
 Wentorf, R. H.; DeVries, R. C.; Bundy, F. P.: Sintered superhard materials. v208 p873-880 23 May 80.
 Werren, John H.: Sex ratio adaptations to local mate competition in a parasitic wasp. v208 p1157-1159 6 June 80.
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