

CONTENTS — R through S

Sources of Basaltic Volcanism in the Arcadia Planitia, Mars <i>M. L. Rampey, K. A. Milam, H. Y. McSween Jr., J. E. Moersch, and P. R. Christensen</i>	5192
LAP 02 205: An Evolved Member of the Apollo 12 Olivine Basalt Suite? <i>K. Rankenburg, A. Brandon, M. Norman, and K. Righter</i>	5294
Constraining Models for the Production of Nuclides by Energetic Particles in Early Solar System Matter <i>R. C. Reedy</i>	5266
Using Light Lithophile Elements to Evaluate Crustal Assimilation on Mars <i>V. S. Reynolds, J. G. Ryan, W. F. McDonough, and H. Y. McSween Jr.</i>	5118
The Contribution of Lunar Meteorites to Our Understanding of the Moon <i>K. Righter</i>	5316
Australasian Tektites and Atomic Bomb Glass: Close Similarity in Their Shape Percentages <i>M. C. L. Rocca</i>	5001
Bajo Hondo, Chubut, Patagonia, Argentina: A New Meteorite Impact Crater in Basalt? <i>M. C. L. Rocca</i>	5002
La Criolla Meteorite Shower, Entre Rios, Argentina: Meteoroid's Helicoentric Orbit <i>M. C. L. Rocca</i>	5003
The Araguainha Impact Structure, Central Brazil: A Perfect Example to Study Collapse of Large Complex Impact Craters <i>R. Romano, W. U. Reimold, and C. Lana</i>	5248
Diamonds in Carbon Spherules — Evidence for a Cosmic Impact? <i>W. Rösler, V. Hoffmann, B. Raeymaekers, D. Schryvers, and J. Popp</i>	5114
An SEM-based Cathodoluminescence Study of Mesostasis in the Nakhrites Nakhla, Lafayette, and MIL03346 <i>D. Rost and E. P. Vicenzi</i>	5286
Structure and Texture of Organic Matter in CV and CO Carbonaceous Chondrites. Relationship to Metamorphic Process <i>J-N Rouzaud, L. Bonal, and E. Quirico</i>	5199
Shock and Annealing in Ureilites <i>A. E. Rubin</i>	5007
A New Aqueous Alteration Index for CM Carbonaceous Chondrites <i>A. E. Rubin, J. M. Trigo-Rodriguez, and J. T. Wasson</i>	5050
Al-26 in UOC Chondrules: Imprints of Thermal Metamorphism in a Nebular Environment <i>N. G. Rudraswami, J. N. Goswami, and M. P. Deomurari</i>	5071
A Terrestrial Fractionation Line for the Oxygen Isotopes of Phosphate Minerals and Its Application to Meteorites <i>D. Rumble III, C. M. Corrigan, R. E. Blake, and T. J. McCoy</i>	5130

Discrimination of Acapulcoites and Lodranites from Winonaites <i>D. Rumble III, A. J. Irving, T. E. Bunch, J. H. Wittke, and S. M. Kuehner</i>	5138
Geochemical Constraints for the Origin of the Steinbach (IVA) Stony Iron Meteorite <i>A. Ruzicka and M. Hutson</i>	5279
Widespread Aluminium-26-induced Meltdown of Planetesimals and an Emerging Rational Early Solar System Chronology <i>I. S. Sanders</i>	5293
Cl-Amphibole in Melt Inclusion from MIL 03346: Evidence for Martian Soil Assimilation <i>V. Sautter, A. Jambon, and O. Boudouma</i>	5205
Chemical Evidence of Asteroidal Fragments (Iron Meteorites and/or Pallasites) in the Earth's Upper Continental Crust? <i>G. Schmidt, H. Palme, and K.-L. Kratz</i>	5015
Petrogenesis of Apollo 15 Olivine- and Quartz-Normative Mare Basalts <i>D. W. Schnare, L. A. Taylor, J. M. D. Day, and M. D. Norman</i>	5214
Si in Metal of CR-Chondrites: Indicator for Incomplete Metal-Silicate Equilibration at High Cooling Rates <i>Th. W. Schoenbeck and H. Palme</i>	5167
Palladium – Silver Systematics of the Early Solar System <i>M. Schönbächler, R. W. Carlson, and E. H. Hauri</i>	5231
Characterizing a Model Sample for Desert Weathering Influence on Noble Gases in Martian Meteorites <i>S. P. Schwenzer, J. Huth, S. Herrmann, and U. Ott</i>	5027
Chondrite Evidence for Accretion of Impact Debris in the Protoplanetary Disk <i>E. R. D. Scott and A. N. Krot</i>	5319
Lithium Isotope Compositions of Martian and Lunar Reservoirs <i>H.-M. Seitz, G. P. Brey, S. Weyer, S. Durali, U. Ott, and C. Münker</i>	5102
The Probable Primitive H-Material in the Krymka Chondrite <i>V. P. Semenenko and A. L. Girich</i>	5013
Exposure Histories of Three Meteorites from Rio Cuarto Argentina <i>F. Serefidin, G. F. Herzog, P. H. Schultz, and L. Schultz</i>	5292
Melt-Vein Crystallization as an Alternative Means of Constraining Shock Pressures in Chondrites <i>T. G. Sharp, Z. Xie, and P. S. De Carli</i>	5290
Petrogenetic Linkages Between the Mg-Suite and Other Episodes of KREEP Basaltic Magmatism <i>C. K. Shearer, L. E. Borg, and J. J. Papike</i>	5243
Chemical Characteristics of Nakhlite, MIL 03346 <i>N. Shirai and M. Ebihara</i>	5245
Nondestructive 3D Structure and Morphology of Meteorites <i>A. S. Simionovici, L. Lemelle, Ph. Gillet, B. Zanda, G. Libourel, and P. Bleuet</i>	5132

Refractory Inclusions from the CM2 Chondrite LEW85311 <i>S. B. Simon, C. G. Keaton, and L. Grossman</i>	5122
Melting of Allende at Pressures Between 1 and 25 Mpa <i>S. J. Singletary, T. L. Grove, and M. J. Drake</i>	5258
Status of the James M. DuPont Meteorite Collection 1995 to 2004 <i>P. P. Sipiera, K. J. Cole, J. R. Schwade, G. A. Jerman, and B. D. Dod</i>	5008
Moldavites from the Cheb Basin, Czech Republic <i>R. Skála and M. Čada</i>	5055
Influence of Titanium Content on Crystal Structure of Iron Monosulfide <i>R. Skála and M. Drábek</i>	5057
Investigating Fine-grained Constituents of Meteorites Using FIB and SEM-STEM <i>C. L. Smith and M. R. Lee</i>	5166
Mineralogy of the Lunar Meteorites Kalahari 008 and Kalahari 009 <i>A. K. Sokol and A. Bischoff</i>	5059
²⁶ Al- ²⁶ Mg Chronology of the D'Orbigny and Sahara 99555 Angrites <i>L. Spivak-Birndorf, M. Wadhwa, and P. E. Janney</i>	5097
Shock-generated Melt Networks in Anorthositic Target Rocks from the Manicouagan Impact Structure <i>J. G. Spray and E. L. Walton</i>	5077
Auger Spectroscopy as a Complement to NanoSIMS Studies of Presolar Materials <i>F. J. Stadermann, C. Floss, E. Zinner, A. Nguyen, and A. S. Lea</i>	5123
TOF-SIMS, NanoSIMS, and TEM Analysis of Anhydrous Cluster IDPs <i>T. Stephan, P. Hoppe, and I. Weber</i>	5157
Shock Recovery Experiments Confirm the Possibility of Transferring Viable Microorganisms from Mars to Earth <i>D. Stöffler, C. Meyer, J. Fritz, G. Horneck, R. Möller, C. S. Cockell, J. P. de Vera, and U. Hornemann</i>	5048
The Origin of Impactors During the Inner Solar System Cataclysm <i>R. G. Strom, R. Malhotra, T. Ito, F. Yoshida, and D. A. Kring</i>	5070
Microstructure of a Presolar Hibonite Grain <i>R. M. Stroud, L. R. Nittler, C. M. O'D. Alexander, F. J. Stadermann, and E. K. Zinner</i>	5171
⁶⁰ Fe- ⁶⁰ Ni Systematics of Some Achondrites <i>N. Sugiura and Q.-Z. Yin</i>	5061
Recent Progress in the Modeling of Core-Collapse Supernovae <i>F. D. Swesty</i>	5341
Petrological and Ar-Ar Studies of Shocked Chondrites <i>T. D. Swindle, D. A. Kring, J. Bond, E. Olson, and C. Jones</i>	5295
Lunar Impact Histories Deduced from Ar-Ar <i>T. D. Swindle, D. A. Kring, B. A. Cohen, J. W. Delano, and N. E. B. Zellner</i>	5116