

# Kevin Righter

## List of Publications by Year in descending order

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127  
papers

6,959  
citations

50276

46  
h-index

64796

79  
g-index

136  
all docs

136  
docs citations

136  
times ranked

4520  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Effect of sulfur on siderophile element partitioning between olivine and martian mantle primary melt. <i>American Mineralogist</i> , 2021, , .   | 1.9  | 1         |
| 2  | Association of silica phases as geothermobarometer for eucrites: Implication for two-stage thermal metamorphism in the eucritic crust. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1086-1108.   | 1.6  | 7         |
| 3  | Identification and pairing reassessment of unequilibrated ordinary chondrites from four Antarctic dense collection areas. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1556-1573.  | 1.6  | 1         |
| 4  | The Sn isotope composition of chondrites: Implications for volatile element depletion in the Solar System. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 139-157.  | 3.9  | 4         |
| 5  | Segregation of Na, K, Rb and Cs into the cores of Earth, Mars and Vesta constrained with partitioning experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 622-638.  | 3.9  | 5         |
| 6  | Oxygen and carbon stable isotope composition of the weathering Mg-carbonates formed on the surface of the LEW 85320 ordinary chondrite: Revisited. <i>Meteoritics and Planetary Science</i> , 2020, 55, .  | 1.6  | 3         |
| 7  | Ag isotopic and chalcophile element evolution of the terrestrial and martian mantles during accretion: New constraints from Bi and Ag metal-silicate partitioning. <i>Earth and Planetary Science Letters</i> , 2020, 552, 116590.   | 4.4  | 10        |
| 8  | Mantle-melt partitioning of the highly siderophile elements: New results and application to Mars. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2741-2757.  | 1.6  | 2         |
| 9  | Prokaryotic and Fungal Characterization of the Facilities Used to Assemble, Test, and Launch the OSIRIS-REx Spacecraft. <i>Frontiers in Microbiology</i> , 2020, 11, 530661.   | 3.5  | 5         |
| 10 | Sierra Gorda 009: A new member of the metal-rich G chondrites grouplet. <i>Meteoritics and Planetary Science</i> , 2020, 55, .   | 1.6  | 8         |
| 11 | Mineralogy and petrology of dark clasts in the Allan Hills 76005 polymict eucrite pairing group. <i>Meteoritics and Planetary Science</i> , 2020, 55, 781-799.   | 1.6  | 1         |
| 12 | Advanced Curation of Astromaterials for Planetary Science. <i>Space Science Reviews</i> , 2019, 215, 1.  | 8.1  | 50        |
| 13 | U, Th, and K partitioning between metal, silicate, and sulfide and implications for Mercury's structure, volatile content, and radioactive heat production. <i>American Mineralogist</i> , 2019, 104, 1221-1237.   | 1.9  | 23        |
| 14 | Volatile element depletion of the Moon-The roles of precursors, post-impact disk dynamics, and core formation. <i>Science Advances</i> , 2019, 5, eaau7658.  | 10.3 | 22        |
| 15 | Effect of silicon on activity coefficients of Bi, Cd, Sn, and Ag in liquid Fe-Si, and implications for differentiation and core formation. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1379-1394.   | 1.6  | 8         |
| 16 | The water and fluorine content of 4 Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 568-581.  | 3.9  | 21        |
| 17 | Nucleosynthetic vanadium isotope heterogeneity of the early solar system recorded in chondritic meteorites. <i>Earth and Planetary Science Letters</i> , 2019, 505, 131-140.   | 4.4  | 23        |
| 18 | Effect of silicon on activity coefficients of siderophile elements (Au, Pd, Pt, P, Ga, Cu, Zn, and Pb) in liquid Fe: Roles of core formation, late sulfide matte, and late veneer in shaping terrestrial mantle geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 101-123. | 3.9  | 25        |

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|----|---|-----|-----------|
| 19 | OSIRIS-REx Contamination Control Strategy and Implementation. <i>Space Science Reviews</i> , 2018, 214, 1.  | 8.1 | 50        |
| 20 | Volatile element signatures in the mantles of Earth, Moon, and Mars: Core formation fingerprints from Bi, Cd, In, and Sn. <i>Meteoritics and Planetary Science</i> , 2018, 53, 284-305.                               | 1.6 | 15        |
| 21 | Phase equilibria of a low S and C lunar core: Implications for an early lunar dynamo and physical state of the current core. <i>Earth and Planetary Science Letters</i> , 2017, 463, 323-332.                         | 4.4 | 29        |
| 22 | Early accretion of water and volatile elements to the inner Solar System: evidence from angrites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160209. | 3.4 | 51        |
| 23 | Metal-silicate partitioning of U: Implications for the heat budget of the core and evidence for reduced U in the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 1-12.                                    | 3.9 | 47        |
| 24 | Angrite meteorites record the onset and flux of water to the inner solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 156-166.   | 3.9 | 33        |
| 25 | OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017, 212, 925-984.  | 8.1 | 426       |
| 26 | Intraplate mantle oxidation by volatile-rich silicic magmas. <i>Lithos</i> , 2017, 292-293, 320-333.  | 1.4 | 11        |
| 27 | Distribution of Sb, As, Ge, and In between metal and silicate during accretion and core formation in the Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 1-16.   | 3.9 | 31        |
| 28 | Redox variations in the inner solar system with new constraints from vanadium XANES in spinels. <i>American Mineralogist</i> , 2016, 101, 1928-1942.  | 1.9 | 56        |
| 29 | Preservation of ancient impact ages on the R chondrite parent body: $40\text{ Ar}/39\text{ Ar}$ age of hornblende-bearing R chondrite LAP 04840. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1678-1684.      | 1.6 | 2         |
| 30 | The W-WO <sub>2</sub> oxygen fugacity buffer (WWO) at high pressure and temperature: Implications for O <sub>2</sub> buffering and metal-silicate partitioning. <i>American Mineralogist</i> , 2016, 101, 211-221.    | 1.9 | 7         |
| 31 | Valence and metal/silicate partitioning of Mo: Implications for conditions of Earth accretion and core formation. <i>Earth and Planetary Science Letters</i> , 2016, 437, 89-100.                                     | 4.4 | 27        |
| 32 | The formation of nuggets of highly siderophile elements in quenched silicate melts at high temperatures: Before or during the silicate quench?. <i>Earth and Planetary Science Letters</i> , 2016, 434, 197-207.      | 4.4 | 16        |
| 33 | 2015 Service Award for Ralph Harvey. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1491-1492.  | 1.6 | 0         |
| 34 | Mineralogy, petrology, chronology, and exposure history of the Chelyabinsk meteorite and parent body. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1790-1819.   | 1.6 | 48        |
| 35 | Modeling siderophile elements during core formation and accretion, and the role of the deep mantle and volatiles. <i>American Mineralogist</i> , 2015, 100, 1098-1109.  | 1.9 | 18        |
| 36 | Siderophile and chalcophile element abundances in shergottites: Implications for Martian core formation. <i>Meteoritics and Planetary Science</i> , 2015, 50, 691-714.  | 1.6 | 51        |

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|----|--|-----|-----------|
| 37 | Estimation of trace element concentrations in the lunar magma ocean using mineral and metal-silicate melt partition coefficients. <i>Meteoritics and Planetary Science</i> , 2015, 50, 733-758.  | 1.6 | 12        |
| 38 | Magma Ocean Depth and Oxygen Fugacity in the Early Earth—Implications for Biochemistry. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 361-366.  | 1.9 | 0         |
| 39 | Fayalite oxidation processes in Obsidian Cliffs rhyolite flow, Oregon. <i>American Mineralogist</i> , 2015, 100, 1153-1164.  | 1.9 | 5         |
| 40 | Highly siderophile element (<sc>HSE</sc>) abundances in the mantle of Mars are due to core formation at high pressure and temperature. <i>Meteoritics and Planetary Science</i> , 2015, 50, 604-631.                                   | 1.6 | 45        |
| 41 | Remembering Mike Drake. <i>Meteoritics and Planetary Science</i> , 2015, 50, 523-529.  | 1.6 | 0         |
| 42 | Redox-driven exsolution of iron-titanium oxides in magnetite in Miller Range (MIL) 03346 nakhlite: Evidence for post crystallization oxidation in the nakhlite cumulate pile?. <i>American Mineralogist</i> , 2014, 99, 2313-2319.     | 1.9 | 15        |
| 43 | How Mercury can be the most reduced terrestrial planet and still store iron in its mantle. <i>Earth and Planetary Science Letters</i> , 2014, 394, 186-197.  | 4.4 | 54        |
| 44 | Partition Coefficients at High Pressure and Temperature. , 2014, , 449-477.  |     | 3         |
| 45 | New constraints on the size of chondrite parent bodies. <i>American Mineralogist</i> , 2013, 98, 1379-1380.  | 1.9 | 1         |
| 46 | The age and composition of the pre-Cenozoic basement of the Jalisco Block: implications for and relation to the Guerrero composite terrane. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 801-824.                     | 3.1 | 35        |
| 47 | Melting of clinopyroxene and magnesite in iron-bearing planetary mantles and implications for the Earth and Mars. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1067-1098.   | 3.1 | 9         |
| 48 | Redox systematics of martian magmas with implications for magnetite stability. <i>American Mineralogist</i> , 2013, 98, 616-628.   | 1.9 | 35        |
| 49 | Curating NASA's Extraterrestrial Samples. <i>Eos</i> , 2013, 94, 253-254.  | 0.1 | 3         |
| 50 | Redox systematics of a magma ocean with variable pressure-temperature gradients and composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11955-11960.                      | 7.1 | 27        |
| 51 | Experimental constraints on the destabilization of basalt+calcite+anhydrite at high pressure and high temperature and implications for meteoroid impact modeling. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 291-304. | 4.4 | 4         |
| 52 | Flux of carbonate melt from deeply subducted pelitic sediments: Geophysical and geochemical implications for the source of Central American volcanic arc. <i>Geophysical Research Letters</i> , 2012, 39, .                            | 4.0 | 62        |
| 53 | Radar properties of comets: Parametric dielectric modeling of Comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2012, 221, 925-939.   | 2.5 | 50        |
| 54 | Terrestrial planet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19165-19170.   | 7.1 | 32        |

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|----|--|------|-----------|
| 55 | The effect of fO <sub>2</sub> on the partitioning and valence of V and Cr in garnet/melt pairs and the relation to terrestrial mantle V and Cr content. <i>American Mineralogist</i> , 2011, 96, 1278-1290.  | 1.9  | 29        |
| 56 | Curating NASA's extraterrestrial samples—Past, present, and future. <i>Chemie Der Erde</i> , 2011, 71, 1-20.   | 2.0  | 29        |
| 57 | Prediction of metal–silicate partition coefficients for siderophile elements: An update and assessment of PT conditions for metal–silicate equilibrium during accretion of the Earth. <i>Earth and Planetary Science Letters</i> , 2011, 304, 158-167.   | 4.4  | 108       |
| 58 | Experimental determination of the metal/silicate partition coefficient of Germanium: Implications for core and mantle differentiation. <i>Earth and Planetary Science Letters</i> , 2011, 304, 379-388.  | 4.4  | 42        |
| 59 | Reply to the Comment by Palme et al. on “Prediction of metal–silicate partition coefficients for siderophile elements: An update and assessment of PT conditions for metal–silicate equilibrium during accretion of the Earth”. <i>Earth and Planetary Science Letters</i> , 2011, 312, 519-521. | 4.4  | 4         |
| 60 | Moderately and slightly siderophile element constraints on the depth and extent of melting in early Mars. <i>Meteoritics and Planetary Science</i> , 2011, 46, 157-176.  | 1.6  | 69        |
| 61 | Channel incision in the Rio Atenguillo, Jalisco, Mexico, defined by 36Cl measurements of bedrock. <i>Geomorphology</i> , 2010, 120, 279-292.   | 2.6  | 21        |
| 62 | Partitioning of Mo, P and other siderophile elements (Cu, Ga, Sn, Ni, Co, Cr, Mn, V, and W) between metal and silicate melt as a function of temperature and silicate melt composition. <i>Earth and Planetary Science Letters</i> , 2010, 291, 1-9.   | 4.4  | 88        |
| 63 | The Meteoritical Bulletin, No. 97. <i>Meteoritics and Planetary Science</i> , 2010, 45, 449-493.   | 1.6  | 21        |
| 64 | The Meteoritical Bulletin, No. 95. <i>Meteoritics and Planetary Science</i> , 2009, 44, 429-462.   | 1.6  | 40        |
| 65 | High pressure effects on the iron–iron oxide and nickel–nickel oxide oxygen fugacity buffers. <i>Earth and Planetary Science Letters</i> , 2009, 286, 556-564.   | 4.4  | 135       |
| 66 | Experimental evidence for sulfur-rich martian magmas: Implications for volcanism and surficial sulfur sources. <i>Earth and Planetary Science Letters</i> , 2009, 288, 235-243.  | 4.4  | 77        |
| 67 | Experimental studies of metal–silicate partitioning of Sb: Implications for the terrestrial and lunar mantles. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1487-1504.   | 3.9  | 24        |
| 68 | Melting of the Indarch meteorite (EH4 chondrite) at 1GPa and variable oxygen fugacity: Implications for early planetary differentiation processes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6402-6420.   | 3.9  | 64        |
| 69 | Trace element chemistry of Cumulus Ridge 04071 pallasite with implications for main group pallasites. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1019-1032.  | 1.6  | 12        |
| 70 | The Meteoritical Bulletin, No. 96, September 2009. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1355-1397.   | 1.6  | 32        |
| 71 | Partitioning of palladium at high pressures and temperatures during core formation. <i>Nature Geoscience</i> , 2008, 1, 321-323.   | 12.9 | 111       |
| 72 | Oxygen Isotopic Composition and Chemical Correlations in Meteorites and the Terrestrial Planets. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 68, 399-428.  | 4.8  | 15        |

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|----|--|-----|-----------|
| 73 | Re and Os concentrations in arc basalts: The roles of volatility and source region fO <sub>2</sub> variations. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 926-947.   | 3.9 | 39        |
| 74 | Oxygen fugacity in the Martian mantle controlled by carbon: New constraints from the nakhlite MIL 03346. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1709-1723.   | 1.6 | 81        |
| 75 | The Meteoritical Bulletin, No. 93, 2008 March. <i>Meteoritics and Planetary Science</i> , 2008, 43, 571-632.   | 1.6 | 52        |
| 76 | 14. Oxygen Isotopic Composition and Chemical Correlations in Meteorites and the Terrestrial Planets. , 2008, , 399-428.  |     | 6         |
| 77 | Not so rare Earth? New developments in understanding the origin of the Earth and Moon. <i>Chemie Der Erde</i> , 2007, 67, 179-200.   | 2.0 | 22        |
| 78 | The Meteoritical Bulletin, No. 92, 2007 September. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1647-1694.   | 1.6 | 45        |
| 79 | Temperature and oxygen fugacity constraints on CK and R chondrites and implications for water and oxidation in the early solar system. <i>Polar Science</i> , 2007, 1, 25-44.  | 1.2 | 50        |
| 80 | Investigation of synthetic Mg <sub>1.3</sub> V <sub>1.7</sub> O <sub>4</sub> spinel with MgO inclusions: Case study of a spinel with an apparently occupied interstitial site. <i>American Mineralogist</i> , 2007, 92, 1031-1037. | 1.9 | 10        |
| 81 | The Meteoritical Bulletin, No. 90, 2006 September. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1383-1418.   | 1.6 | 93        |
| 82 | Partitioning of Ni, Co and V between spinel-structured oxides and silicate melts: Importance of spinel composition. <i>Chemical Geology</i> , 2006, 227, 1-25.   | 3.3 | 118       |
| 83 | 3. The Constitution and Structure of the Lunar Interior. , 2006, , 221-364.  |     | 51        |
| 84 | An experimental study of the oxidation state of vanadium in spinel and basaltic melt with implications for the origin of planetary basalt. <i>American Mineralogist</i> , 2006, 91, 1643-1656.                                     | 1.9 | 85        |
| 85 | Compositional Relationships Between Meteorites and Terrestrial Planets. , 2006, , 803-828.   |     | 50        |
| 86 | Contemporaneous eruption of calc-alkaline and alkaline lavas in a continental arc (Eastern Mexican) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br><i>Mineralogy and Petrology</i> , 2005, 150, 423-440.                                   | 3.1 | 31        |
| 87 | Mineralogy and petrology of the LaPaz Icefield lunar mare basaltic meteorites. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1703-1722.   | 1.6 | 38        |
| 88 | Shock melts in QUE 94411, Hammadah al Hamra 237, and Bencubbin: Remains of the missing matrix?. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1377-1391.  | 1.6 | 27        |
| 89 | Diffusion of trace elements in FeNi metal: Application to zoned metal grains in chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3145-3158.  | 3.9 | 38        |
| 90 | Highly siderophile elements: Constraints on Earth accretion and early differentiation. <i>Geophysical Monograph Series</i> , 2005, , 201-218.  | 0.1 | 9         |

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|-----|--|------|-----------|
| 91  | Partitioning of Ru, Rh, Pd, Re, Ir, and Au between Cr-bearing spinel, olivine, pyroxene and silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 867-880.  | 3.9  | 256       |
| 92  | Large-scale mantle metasomatism: a Re-Os perspective. <i>Earth and Planetary Science Letters</i> , 2004, 219, 49-60.   | 4.4  | 78        |
| 93  | METAL-SILICATE PARTITIONING OF SIDEROPHILE ELEMENTS AND CORE FORMATION IN THE EARLY EARTH. <i>Annual Review of Earth and Planetary Sciences</i> , 2003, 31, 135-174.   | 11.0 | 137       |
| 94  | Behavior of tungsten and hafnium in silicates: A crystal chemical basis for understanding the early evolution of the terrestrial planets. <i>Geophysical Research Letters</i> , 2003, 30, 7-1-7-4.               | 4.0  | 41        |
| 95  | Magmatic fractionation of Hf and W: constraints on the timing of core formation and differentiation in the Moon and Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2497-2507.                          | 3.9  | 102       |
| 96  | Mechanisms of metal-silicate equilibration in the terrestrial magma ocean. <i>Earth and Planetary Science Letters</i> , 2003, 205, 239-255.  | 4.4  | 293       |
| 97  | Partition Coefficients at High Pressure and Temperature. , 2003, , 425-449.  |      | 15        |
| 98  | Correlations of octahedral cations with OH <sup>+</sup> , O <sup>2+</sup> , Cl <sup>+</sup> , and F <sup>+</sup> in biotite from volcanic rocks and xenoliths. <i>American Mineralogist</i> , 2002, 87, 142-153. | 1.9  | 51        |
| 99  | Genesis of primitive, arc-type basalt: Constraints from Re, Os, and Cl on the depth of melting and role of fluids. <i>Geology</i> , 2002, 30, 619.   | 4.4  | 29        |
| 100 | Source contamination versus assimilation: an example from the Trans-Mexican Volcanic Arc. <i>Earth and Planetary Science Letters</i> , 2002, 195, 211-221.   | 4.4  | 84        |
| 101 | Does the Moon Have a Metallic Core? Constraints from Giant Impact Modeling and Siderophile Elements. <i>Icarus</i> , 2002, 158, 1-13.  | 2.5  | 75        |
| 102 | Determining the composition of the Earth. <i>Nature</i> , 2002, 416, 39-44.  | 27.8 | 401       |
| 103 | The crystal structures of synthetic Re- and PGE-bearing magnesioferrite Spinel: Implications for impacts, accretion and the mantle. <i>Geophysical Research Letters</i> , 2001, 28, 619-622.                     | 4.0  | 34        |
| 104 | Alkaline Lavas in the Volcanic Front of the Western Mexican Volcanic Belt: Geology and Petrology of the Ayutla and Tapalpa Volcanic Fields. <i>Journal of Petrology</i> , 2001, 42, 2333-2361.                   | 2.8  | 46        |
| 105 | Response to Comment on "Comparison of Laboratory Emission Spectra with Mercury Telescopic Data" by Melissa Lane. <i>Icarus</i> , 2000, 143, 409-411.   | 2.5  | 4         |
| 106 | A comparison of basaltic volcanism in the Cascades and western Mexico: compositional diversity in continental arcs. <i>Tectonophysics</i> , 2000, 318, 99-117.   | 2.2  | 52        |
| 107 | Metal/silicate equilibrium in the early Earth—New constraints from the volatile moderately siderophile elements Ga, Cu, P, and Sn. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3581-3597.                 | 3.9  | 82        |
| 108 | Petrology of unique achondrite Queen Alexandra Range 93148: A piece of the pallasite (howardite-eucrite-diogenite?) parent body?. <i>Meteoritics and Planetary Science</i> , 2000, 35, 521-535.                  | 1.6  | 35        |

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|-----|--|------|-----------|
| 109 | Water in the Early Earth. , 2000, , 413-434.   |      | 113       |
| 110 | Effect of water on metal-silicate partitioning of siderophile elements: a high pressure and temperature terrestrial magma ocean and core formation. Earth and Planetary Science Letters, 1999, 171, 383-399.   | 4.4  | 146       |
| 111 | Oxy-substitution and dehydrogenation in mantle-derived amphibole megacrysts. Geochimica Et Cosmochimica Acta, 1999, 63, 3635-3651.   | 3.9  | 55        |
| 112 | Accretion and core formation on Mars: molybdenum contents of melt inclusion glasses in three SNC meteorites. Geochimica Et Cosmochimica Acta, 1998, 62, 2167-2177.   | 3.9  | 55        |
| 113 | Compatibility of Rhenium in Garnet During Mantle Melting and Magma Genesis. Science, 1998, 280, 1737-1741.   | 12.6 | 113       |
| 114 | Behavior of Re during Magma Fractionation: an Example from Volcan Alcedo, Galapagos. Journal of Petrology, 1998, 39, 785-795.  | 2.8  | 41        |
| 115 | Metal-silicate equilibrium in a homogeneously accreting earth: new results for Re. Earth and Planetary Science Letters, 1997, 146, 541-553.  | 4.4  | 158       |
| 116 | Prediction of siderophile element metal-silicate partition coefficients to 20 GPa and 2800Å°C: the effects of pressure, temperature, oxygen fugacity, and silicate and metallic melt compositions. Physics of the Earth and Planetary Interiors, 1997, 100, 115-134. | 1.9  | 232       |
| 117 | A magma ocean on Vesta: Core formation and petrogenesis of eucrites and diogenites. Meteoritics and Planetary Science, 1997, 32, 929-944.  | 1.6  | 275       |
| 118 | High bedrock incision rates in the Atenguillo River valley, Jalisco, Western Mexico. Earth Surface Processes and Landforms, 1997, 22, 337-343.   | 2.5  | 29        |
| 119 | Phase equilibria of phlogopite lamprophyres from western Mexico: biotite-liquid equilibria and P - T estimates for biotite-bearing igneous rocks. Contributions To Mineralogy and Petrology, 1996, 123, 1-21.  | 3.1  | 121       |
| 120 | Core Formation in Earth's Moon, Mars, and Vesta. Icarus, 1996, 124, 513-529.   | 2.5  | 194       |
| 121 | The effect of dissolved water on the oxidation state of iron in natural silicate liquids. Contributions To Mineralogy and Petrology, 1995, 120, 170-179.   | 3.1  | 100       |
| 122 | Pliocene-Quaternary volcanism and faulting at the intersection of the Gulf of California and the Mexican Volcanic Belt. Bulletin of the Geological Society of America, 1995, 107, 612.   | 3.3  | 75        |
| 123 | The effect of dissolved water on the oxidation state of iron in natural silicate liquids. Contributions To Mineralogy and Petrology, 1995, 120, 170-179.   | 3.1  | 6         |
| 124 | Hawaiites and related lavas in the Atenguillo graben, western Mexican Volcanic Belt. Bulletin of the Geological Society of America, 1992, 104, 1592-1607.  | 3.3  | 56        |
| 125 | Volcanism and tectonism in western Mexico: A contrast of style and substance. Geology, 1992, 20, 625.  | 4.4  | 38        |
| 126 | Electrochemical measurements and thermodynamic calculations of redox equilibria in pallasite meteorites: Implications for the eucrite parent body. Geochimica Et Cosmochimica Acta, 1990, 54, 1803-1815.   | 3.9  | 20        |



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|-----|--|-----|-----------|
| 127 | Activity coefficients of siderophile elements in Fe-Si liquids at high pressure. <i>Geochemical Perspectives Letters</i> , 0, , 44-49. | 5.0 | 3         |