

# Steven B Shirey

## List of Publications by Citations

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29  
papers

2,169  
citations

18  
h-index

30  
g-index

30  
ext. papers

2,474  
ext. citations

13.6  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
29	THE Re-Os ISOTOPE SYSTEM IN COSMOCHEMISTRY AND HIGH-TEMPERATURE GEOCHEMISTRY. <i>Annual Review of Earth and Planetary Sciences</i> , <b>1998</b> , 26, 423-500	15.3	748
28	Start of the Wilson cycle at 3 Ga shown by diamonds from subcontinental mantle. <i>Science</i> , <b>2011</b> , 333, 434-6	33.3	371
27	Large gem diamonds from metallic liquid in Earth's deep mantle. <i>Science</i> , <b>2016</b> , 354, 1403-1405	33.3	185
26	Diamond genesis, seismic structure, and evolution of the Kaapvaal-Zimbabwe craton. <i>Science</i> , <b>2002</b> , 297, 1683-6	33.3	145
25	Three-component isotopic heterogeneity near the Oceanographer transform, Mid-Atlantic Ridge. <i>Nature</i> , <b>1987</b> , 325, 217-223	50.4	113
24	Archean emplacement of eclogitic components into the lithospheric mantle during formation of the Kaapvaal Craton. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2509-2512	4.9	98
23	Blue boron-bearing diamonds from Earth's lower mantle. <i>Nature</i> , <b>2018</b> , 560, 84-87	50.4	67
22	Sulphide survival and diamond genesis during formation and evolution of Archaean subcontinental lithosphere: A comparison between the Slave and Kaapvaal cratons. <i>Lithos</i> , <b>2009</b> , 112, 747-757	2.9	57
21	Redox controls on NiBePt mineralization and Re/Os fractionation during serpentinization of abyssal peridotite. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 150, 11-25	5.5	44
20	Diamond growth from CH <sub>4</sub> recycled fluids in the lithosphere: Evidence from CH <sub>4</sub> micro-inclusions and <sup>13</sup> C/ <sup>12</sup> C content in Marange mixed-habit diamonds. <i>Lithos</i> , <b>2016</b> , 265, 68-81	2.9	42
19	Isotopic and trace element constraints on the petrogenesis of lavas from the Mount Adams volcanic field, Washington. <i>Contributions To Mineralogy and Petrology</i> , <b>2009</b> , 157, 189-207	3.5	37
18	Nitrile, Latex, Neoprene and Vinyl Gloves: A Primary Source of Contamination for Trace Element and Zn Isotopic Analyses in Geological and Biological Samples. <i>Geostandards and Geoanalytical Research</i> , <b>2017</b> , 41, 367-380	3.6	33
17	Sulfur isotopes in diamonds reveal differences in continent construction. <i>Science</i> , <b>2019</b> , 364, 383-385	33.3	31
16	Diamond formation episodes at the southern margin of the Kaapvaal Craton: Re/Os systematics of sulfide inclusions from the Jagersfontein Mine. <i>Contributions To Mineralogy and Petrology</i> , <b>2009</b> , 157, 525-540	3.5	27
15	Type Ib diamond formation and preservation in the West African lithospheric mantle: Re/Os age constraints from sulphide inclusions in Zimmi diamonds. <i>Precambrian Research</i> , <b>2016</b> , 286, 152-166	3.9	27
14	The Aouelloul crater, Mauritania: On the problem of confirming the impact origin of a small crater. <i>Meteoritics and Planetary Science</i> , <b>1998</b> , 33, 513-517	2.8	24
13	Formation of cratonic subcontinental lithospheric mantle and complementary komatiite from hybrid plume sources. <i>Contributions To Mineralogy and Petrology</i> , <b>2011</b> , 161, 947-960	3.5	22

12	New approaches to crustal evolution studies and the origin of granitic rocks: what can the Lu-Hf and Re-Os isotope systems tell us?. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , <b>1996</b> , 87, 339-352	0.9	21
11	Distinguishing Plume and Metasomatized Lithospheric Mantle Contributions to Post-Flood Basalt Volcanism on the Southeastern Ethiopian Plateau. <i>Journal of Petrology</i> , <b>2019</b> , 60, 1063-1094	3.9	18
10	Regional study of the Archean to Proterozoic crust at the Sudbury Neutrino Observatory (SNO+), Ontario: Predicting the geoneutrino flux. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 3925-3944	3.6	15
9	The Very Deep Origin of the World's Biggest Diamonds. <i>Gems &amp; Gemology</i> , <b>2018</b> , 53, 388-403	1.8	14
8	Slab Transport of Fluids to Deep Focus Earthquake Depths Thermal Modeling Constraints and Evidence From Diamonds. <i>AGU Advances</i> , <b>2021</b> , 2, e2020AV000304	5.4	8
7	Diamonds and the Mantle Geodynamics of Carbon <b>2019</b> , 89-128		7
6	Heavy iron in large gem diamonds traces deep subduction of serpentized ocean floor. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	5
5	Non-destructive, multi-method, internal analysis of multiple inclusions in a single diamond: First occurrence of mackinawite (Fe,Ni) <sub>1+x</sub> S. <i>American Mineralogist</i> , <b>2017</b> , 102, 2235-2243	2.9	4
4	Fast identification of mineral inclusions in diamond at GSECARS using synchrotron X-ray microtomography, radiography and diffraction. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1763-1768	2.4	2
3	Comment on "Discovery of davemaoite, CaSiO-perovskite, as a mineral from the lower mantle".. <i>Science</i> , <b>2022</b> , 376, eabo0882	33.3	2
2	Reply to: Evidence for two blue (type IIb) diamond populations. <i>Nature</i> , <b>2019</b> , 570, E28-E29	50.4	
1	SEM and EPMA Analyses of Metallic Inclusions in Diamonds - Probing the Earth's Deep Mantle. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 2286-2287	0.5	