

# Laurence A J Garvie

## List of Publications by Year in descending order

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47  
papers

2,467  
citations

172457

29  
h-index

214800

47  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3041  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Pressure Bulk Synthesis of Crystalline C <sub>6</sub> N <sub>9</sub> H <sub>3</sub> ·HCl: A Novel C <sub>3</sub> N <sub>4</sub> Graphitic Derivative. <i>Journal of the American Chemical Society</i> , 2001, 123, 7788-7796.	13.7	261
2	Icosahedral packing of B <sub>12</sub> icosahedra in boron suboxide (B <sub>6</sub> O). <i>Nature</i> , 1998, 391, 376-378.	27.8	242
3	Ratios of ferrous to ferric iron from nanometre-sized areas in minerals. <i>Nature</i> , 1998, 396, 667-670.	27.8	209
4	High-Pressure, High-Temperature Synthesis and Characterization of Boron Suboxide (B <sub>6</sub> O). <i>Chemistry of Materials</i> , 1998, 10, 1530-1537.	6.7	121
5	Nanosized carbon-rich grains in carbonaceous chondrite meteorites. <i>Earth and Planetary Science Letters</i> , 2004, 224, 431-439.	4.4	93
6	Bonding in silicates; investigation of the Si L (sub 2,3) edge by parallel electron energy-loss spectroscopy. <i>American Mineralogist</i> , 1999, 84, 946-964.	1.9	92
7	Parallel electron energy-loss spectroscopy (PEELS) study of B in minerals; the electron energy-loss near-edge structure (ELNES) of the B K edge. <i>American Mineralogist</i> , 1995, 80, 1132-1144.	1.9	75
8	High-Pressure, High-Temperature Syntheses in the B-C-N-O System. <i>Journal of Solid State Chemistry</i> , 1997, 133, 356-364.	2.9	75
9	Decay-induced biomineralization of the saguaro cactus ( <i>Carnegiea gigantea</i> ). <i>American Mineralogist</i> , 2003, 88, 1879-1888.	1.9	67
10	Crystal structure of kanemite, NaHSi <sub>2</sub> O <sub>5</sub> ·3H <sub>2</sub> O, from the Aris Phonolite, Namibia. <i>American Mineralogist</i> , 1999, 84, 1170-1175.	1.9	65
11	Bonding in alpha-quartz (SiO <sub>2</sub> ): A view of the unoccupied states. <i>American Mineralogist</i> , 2000, 85, 732-738.	1.9	64
12	Nanometer-scale complexity, growth, and diagenesis in desert varnish. <i>Geology</i> , 2008, 36, 215.	4.4	55
13	Diamond-Graphene Composite Nanostructures. <i>Nano Letters</i> , 2020, 20, 3611-3619.	9.1	54
14	Electron-beam-induced reduction of Mn <sup>4+</sup> in manganese oxides as revealed by parallel EELS. <i>Ultramicroscopy</i> , 1994, 54, 83-92.	1.9	52
15	Extraterrestrial carbon nanospheres. <i>Carbon</i> , 2006, 44, 158-160.	10.3	52
16	High-Pressure, High-Temperature Syntheses in the B-C-N-O System. <i>Journal of Solid State Chemistry</i> , 1997, 133, 365-371.	2.9	51
17	Nanometer-scale measurements of Fe <sup>3+</sup> by electron energy-loss spectroscopy: A cautionary note. <i>American Mineralogist</i> , 2004, 89, 1610-1616.	1.9	49
18	Complex nanostructures in diamond. <i>Nature Materials</i> , 2020, 19, 1126-1131.	27.5	49

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19	Anatomy of the endolithic Sonoran Desert lichen <i>Verrucaria rubrocincta</i> Breuss: implications for biodeterioration and biomineralization. <i>Lichenologist</i> , 2004, 36, 55-73.	0.8	47
20	Nanometer-scale measurements of iron oxidation states of cronstedtite from primitive meteorites. <i>American Mineralogist</i> , 2003, 88, 1169-1172.	1.9	46
21	Scale-dependent measurements of meteorite strength: Implications for asteroid fragmentation. <i>Icarus</i> , 2016, 277, 73-77.	2.5	46
22	Carbonaceous materials in the acid residue from the Orgueil carbonaceous chondrite meteorite. <i>Meteoritics and Planetary Science</i> , 2006, 41, 633-642.	1.6	45
23	Decay of cacti and carbon cycling. <i>Die Naturwissenschaften</i> , 2006, 93, 114-118.	1.6	43
24	Prebiotic carbon in clays from Orgueil and Ivuna (CI), and Tagish Lake (C2 ungrouped) meteorites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2111-2117.	1.6	41
25	Life in extreme environments: survival strategy of the endolithic desert lichen <i>Verrucaria rubrocincta</i> . <i>Die Naturwissenschaften</i> , 2008, 95, 705-712.	1.6	37
26	Polyhedral serpentine grains in CM chondrites. <i>Meteoritics and Planetary Science</i> , 2006, 41, 681-688.	1.6	36
27	The Meteoritical Bulletin, No. 100, 2014 June. <i>Meteoritics and Planetary Science</i> , 2014, 49, E1.	1.6	35
28	Sedimentary laminations in the Isheyevo (CH/CBb) carbonaceous chondrite formed by gentle impact-plume sweep-up. <i>Icarus</i> , 2017, 292, 36-47.	2.5	34
29	Electron Energy Loss Near Edge Structure (ELNES) on the Carbon K-Edge in Transition Metal Carbides with the Rock Salt Structure. <i>Microscopy Microanalysis Microstructures</i> , 1995, 6, 89-98.	0.4	32
30	Can electron energy-loss spectroscopy (EELS) be used to quantify hydrogen in minerals from the O K edge?. <i>American Mineralogist</i> , 2010, 95, 92-97.	1.9	29
31	Synthesis of $(Ca,Ce^{3+},Ce^{4+})_2Ti_2O_7$ : a pyrochlore with mixed-valence cerium. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 902-905.	4.0	28
32	Serpentine nanotubes in the Mighei CM chondrite. <i>Earth and Planetary Science Letters</i> , 2004, 223, 141-146.	4.4	26
33	Transformation of graphite to diamond via a topotactic mechanism. <i>American Mineralogist</i> , 2014, 99, 531-538.	1.9	26
34	The structure of Mn-rich taperssuatsiaite: A palygorskite-related mineral. <i>American Mineralogist</i> , 2002, 87, 1458-1463.	1.9	24
35	Scanning electron microscopical and cross sectional analysis of extraterrestrial carbonaceous nanoglobules. <i>Meteoritics and Planetary Science</i> , 2008, 43, 899-903.	1.6	21
36	The Creston, California, meteorite fall and the origin of L chondrites. <i>Meteoritics and Planetary Science</i> , 2019, 54, 699-720.	1.6	21

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37	Characterization of Beryllium-Boron-Bearing Materials by Parallel Electron Energy-Loss Spectroscopy (PEELS). <i>Journal of Solid State Chemistry</i> , 1997, 133, 347-355.	2.9	20
38	The Meteoritical Bulletin, No. 99, April 2012 <sup>*</sup> . <i>Meteoritics and Planetary Science</i> , 2012, 47, E1.	1.6	19
39	Growth and single-crystal refinement of phase-III potassium nitrate, KNO <sub>3</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 659-663.	1.8	17
40	Diaphite-structured nanodiamonds with six- and twelve-fold symmetries. <i>Diamond and Related Materials</i> , 2021, 119, 108573.	3.9	16
41	Unoccupied states of pyrite probed by electron energy-loss spectroscopy (EELS). <i>American Mineralogist</i> , 2004, 89, 485-491.	1.9	15
42	Sutter's Mill dicarboxylic acids as possible tracers of parent-body alteration processes. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2087-2094.	1.6	12
43	Orbit and origin of the LL7 chondrite Dishchii'bikoh (Arizona). <i>Meteoritics and Planetary Science</i> , 2020, 55, 535-557.	1.6	10
44	Mineralogy of paloverde ( <i>Parkinsonia microphylla</i> ) tree ash from the Sonoran Desert: A combined field and laboratory study. <i>American Mineralogist</i> , 2016, 101, 1584-1595.	1.9	7
45	From the Editor of the Meteoritical Bulletin. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1887-1887.	1.6	5
46	Best practices for the use of meteorite names in publications. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1397-1400.	1.6	2
47	A semantic net representation for the classification of minerals. <i>Computers and Geosciences</i> , 1995, 21, 387-396.	4.2	1