

George R Rossman

List of Publications by Year in descending order

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248
papers

14,297
citations

19657

61
h-index

25787

108
g-index

253
all docs

253
docs citations

253
times ranked

8270
citing authors

#	ARTICLE	IF	CITATIONS
1	Water in Earth's Mantle: The Role of Nominally Anhydrous Minerals. <i>Science</i> , 1992, 255, 1391-1397.	12.6	882
2	Mantle-derived fluids in diamond micro-inclusions. <i>Nature</i> , 1988, 335, 784-789.	27.8	452
3	An IR absorption calibration for water in minerals. <i>American Mineralogist</i> , 1997, 82, 1111-1115.	1.9	413
4	Quantitative analysis of trace OH in garnet and pyroxenes. <i>American Mineralogist</i> , 1995, 80, 465-474.	1.9	402
5	Hydroxide in olivine: A quantitative determination of the absolute amount and calibration of the IR spectrum. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	383
6	Water in minerals? A peak in the infrared. <i>Journal of Geophysical Research</i> , 1984, 89, 4059-4071.	3.3	353
7	Lunar apatite with terrestrial volatile abundances. <i>Nature</i> , 2010, 466, 466-469.	27.8	258
8	Desert Varnish: The Importance of Clay Minerals. <i>Science</i> , 1977, 196, 1446-1448.	12.6	253
9	Discovery of bridgmanite, the most abundant mineral in Earth, in a shocked meteorite. <i>Science</i> , 2014, 346, 1100-1102.	12.6	243
10	Hydrogen speciation in synthetic quartz. <i>Physics and Chemistry of Minerals</i> , 1984, 11, 204-212.	0.8	226
11	Theoretical estimates of equilibrium Fe-isotope fractionations from vibrational spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2487-2497.	3.9	223
12	The natural occurrence of hydroxide in olivine. <i>Physics and Chemistry of Minerals</i> , 1987, 14, 461-472.	0.8	218
13	Principles of quantitative absorbance measurements in anisotropic crystals. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 319.	0.8	213
14	Incorporation of hydroxyl in upper-mantle clinopyroxenes. <i>Nature</i> , 1991, 351, 732-735.	27.8	200
15	Characterization of hydrous species in minerals by high-speed proton MAS-NMR. <i>Journal of the American Chemical Society</i> , 1988, 110, 1367-1375.	13.7	196
16	Hydrogen incorporation in olivine from 2-12 GPa. <i>American Mineralogist</i> , 2006, 91, 285-294.	1.9	194
17	Abundance and Partitioning of OH in a High-pressure Magmatic System: Megacrysts from the Monastery Kimberlite, South Africa. <i>Journal of Petrology</i> , 2004, 45, 1539-1564.	2.8	187
18	Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earth's deep mantle. <i>Science</i> , 2018, 359, 1136-1139.	12.6	166

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19	Theoretical estimates of equilibrium chromium-isotope fractionations. <i>Chemical Geology</i> , 2004, 205, 99-114.	3.3	165
20	The manganese- and iron-oxide mineralogy of desert varnish. <i>Chemical Geology</i> , 1979, 25, 79-94.	3.3	163
21	Fibrous nanoinclusions in massive rose quartz: The origin of rose coloration. <i>American Mineralogist</i> , 2001, 86, 466-472.	1.9	158
22	Trapping an Iron(VI) Water-Splitting Intermediate in Nonaqueous Media. <i>Joule</i> , 2018, 2, 747-763.	24.0	157
23	Studies of OH in nominally anhydrous minerals. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 299.	0.8	152
24	Mixed valence of iron in minerals with cation clusters. <i>Physics and Chemistry of Minerals</i> , 1984, 11, 37-51.	0.8	149
25	Theoretical estimates of equilibrium chlorine-isotope fractionations. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3267-3281.	3.9	143
26	The distribution of hydroxyl in garnets from the subcontinental mantle of southern Africa. <i>Contributions To Mineralogy and Petrology</i> , 1992, 111, 161-178.	3.1	138
27	The concentration and speciation of hydrogen in feldspars using FTIR and ^1H MAS NMR spectroscopy. <i>American Mineralogist</i> , 2003, 88, 901-911.	1.9	127
28	Direct measurement of hydroxyl in the lunar regolith and the origin of lunar surface water. <i>Nature Geoscience</i> , 2012, 5, 779-782.	12.9	120
29	Planar OH-bearing defects in mantle olivine. <i>Nature</i> , 1987, 328, 143-145.	27.8	111
30	Electronic structure of oxo-bridge iron(III) dimers. <i>Journal of the American Chemical Society</i> , 1972, 94, 2683-2690.	13.7	109
31	Origin of the yellow color of complex nickel oxides. <i>Journal of Solid State Chemistry</i> , 1981, 39, 277-287.	2.9	109
32	Tistarite, Ti_2O_3 , a new refractory mineral from the Allende meteorite. <i>American Mineralogist</i> , 2009, 94, 841-844.	1.9	101
33	Analysis of hydrogen in olivine by SIMS: Evaluation of standards and protocol. <i>American Mineralogist</i> , 2011, 96, 1725-1741.	1.9	98
34	A survey of hydrous species and concentrations in igneous feldspars. <i>American Mineralogist</i> , 2004, 89, 586-600.	1.9	95
35	Analytical Methods for Measuring Water in Nominally Anhydrous Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 62, 1-28.	4.8	92
36	Field Effect Optoelectronic Modulation of Quantum-Confined Carriers in Black Phosphorus. <i>Nano Letters</i> , 2017, 17, 78-84.	9.1	89

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37	Water content of mantle garnets. <i>Geology</i> , 1984, 12, 720.	4.4	85
38	Archean mantle heterogeneity and the origin of diamondiferous eclogites, Siberia; evidence from stable isotopes and hydroxyl in garnet. <i>American Mineralogist</i> , 1995, 80, 799-809.	1.9	85
39	Spectroscopic and magnetic properties of heptacyanomolybdate(III). Evidence for pentagonal-bipyramidal and monocapped trigonal-prismatic structures. <i>Inorganic Chemistry</i> , 1973, 12, 824-829.	4.0	83
40	The intensity of amphibole OH bands in the infrared absorption spectrum. <i>Physics and Chemistry of Minerals</i> , 1991, 18, 64.	0.8	82
41	An Update on Color in Gems. Part 1: Introduction and Colors Caused by Dispersed Metal Ions. <i>Gems & Gemology</i> , 1987, 23, 126-139.	0.6	82
42	Magnetic behavior and infrared spectra of jarosite, basic iron sulfate, and their chromate analogs. <i>Journal of Solid State Chemistry</i> , 1975, 13, 1-13.	2.9	81
43	Ahrensite, $\hat{3}\text{-Fe}_2\text{SiO}_4$, a new shock-metamorphic mineral from the Tissint meteorite: Implications for the Tissint shock event on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 240-256.	3.9	81
44	Tissintite, $(\text{Ca}, \hat{\text{e}}\% \text{Na}, \hat{\text{e}}\% \text{â}-\text{j})\text{AlSi}_2\text{O}_6$, a highly-defective, shock-induced, high-pressure clinopyroxene in the Tissint martian meteorite. <i>Earth and Planetary Science Letters</i> , 2015, 422, 194-205.	4.4	79
45	Fe ²⁺ -Fe ³⁺ interactions in tourmaline. <i>Physics and Chemistry of Minerals</i> , 1987, 14, 163-171.	0.8	78
46	Case hardening of sandstone. <i>Geology</i> , 1982, 10, 520.	4.4	77
47	Determination of Fe ³⁺ and Fe ²⁺ concentrations in feldspar by optical absorption and EPR spectroscopy. <i>Physics and Chemistry of Minerals</i> , 1984, 11, 213-224.	0.8	76
48	Chelates of .beta.-diketones. VI. Synthesis and characterization of dimeric dialkoxo-bridged iron(III) complexes with acetylacetone and 2,2,6,6-tetramethylheptane-3,5-dione (HDPM). <i>Inorganic Chemistry</i> , 1972, 11, 990-994.	4.0	75
49	Submicrometer fluid inclusions in turbid-diamond coats. <i>Earth and Planetary Science Letters</i> , 1991, 105, 1-12.	4.4	74
50	Quantitative polarized infrared analysis of trace OH in populations of randomly oriented mineral grains. <i>American Mineralogist</i> , 2006, 91, 278-284.	1.9	74
51	An Update on Color in Gems. Part 2: Colors Involving Multiple Atoms and Color Centers. <i>Gems & Gemology</i> , 1988, 24, 3-15.	0.6	73
52	Elastic properties of pyrope. <i>Physics and Chemistry of Minerals</i> , 1991, 17, 617.	0.8	72
53	FTIR spectroscopy of lawsonite between 82 and 325 K. <i>American Mineralogist</i> , 1996, 81, 1080-1091.	1.9	71
54	Analysis of hydrogen and fluorine in pyroxenes: II. Clinopyroxene. <i>American Mineralogist</i> , 2013, 98, 1042-1054.	1.9	71

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55	Channel constituents in beryl. <i>Physics and Chemistry of Minerals</i> , 1978, 3, 225-235.	0.8	70
56	A model for the irradiative coloration of smoky feldspar and the inhibiting influence of water. <i>Physics and Chemistry of Minerals</i> , 1985, 12, 324-332.	0.8	68
57	Analysis of hydrogen and fluorine in pyroxenes: I. Orthopyroxene. <i>American Mineralogist</i> , 2013, 98, 1026-1041.	1.9	67
58	Identifying characteristics of charge transfer transitions in minerals. <i>Physics and Chemistry of Minerals</i> , 1987, 14, 94-99.	0.8	66
59	Mid-infrared reflectance spectra and optical constants of six iron oxide/oxyhydroxide phases. <i>Icarus</i> , 2009, 204, 663-671.	2.5	66
60	Dielectric constants of yttrium and rare-earth garnets, the polarizability of gallium oxide, and the oxide additivity rule. <i>Journal of Applied Physics</i> , 1990, 67, 3798-3802.	2.5	64
61	Single-crystal IR spectroscopy of very strong hydrogen bonds in pectolite, $\text{NaCa}_2[\text{Si}_3\text{O}_8(\text{OH})]$, and serandite, $\text{NaMn}_2[\text{Si}_3\text{O}_8(\text{OH})]$. <i>American Mineralogist</i> , 1998, 83, 569-576.	1.9	63
62	The hydrous component in andradite garnet. <i>American Mineralogist</i> , 1998, 83, 835-840.	1.9	63
63	Mid-infrared ($5\text{--}100\ \mu\text{m}$) reflectance spectra and optical constants of ten phyllosilicate minerals. <i>Icarus</i> , 2007, 192, 605-622.	2.5	63
64	Raman characterization of synthetic magnesian calcites. <i>American Mineralogist</i> , 2016, 101, 2525-2538.	1.9	63
65	An Update on Color in Gems. Part 3: Colors Caused By Band Gaps and Physical Phenomena. <i>Gems & Gemology</i> , 1988, 24, 81-102.	0.6	63
66	Grossmanite, $\text{CaTi}_3\text{AlSiO}_6$, a new pyroxene from the Allende meteorite. <i>American Mineralogist</i> , 2009, 94, 1491-1494.	1.9	62
67	Stationary and mobile hydrogen defects in potassium feldspar. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4075-4094.	3.9	61
68	Krotite, CaAl_2O_4 , a new refractory mineral from the NWA 1934 meteorite. <i>American Mineralogist</i> , 2011, 96, 709-715.	1.9	60
69	Barioperovskite, BaTiO_3 , a new mineral from the Benitoite Mine, California. <i>American Mineralogist</i> , 2008, 93, 154-157.	1.9	59
70	Dihydroxo-bridged ferric dimer. <i>Journal of the American Chemical Society</i> , 1969, 91, 4564-4566.	13.7	58
71	Hydrogen, lithium, and boron in mantle-derived olivine: The role of coupled substitutions. <i>American Mineralogist</i> , 2002, 87, 1432-1436.	1.9	58
72	Water in boninite glass and coexisting orthopyroxene: concentration and partitioning. <i>Contributions To Mineralogy and Petrology</i> , 1995, 118, 414-419.	3.1	55

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73	Hydrogen bonding interactions in phase A [Mg ₇ Si ₂ O ₈ (OH) ₆] at ambient and high pressure. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 225-233.	0.8	55
74	Mn-rich tourmaline from Austria: structure, chemistry, optical spectra, and relations to synthetic solid solutions. <i>American Mineralogist</i> , 2004, 88, 1369-1376.	1.9	55
75	Davisite, CaScAlSiO ₆ , a new pyroxene from the Allende meteorite. <i>American Mineralogist</i> , 2009, 94, 845-848.	1.9	54
76	Dielectric constant of MgAl ₂ O ₄ spinel and the oxide additivity rule. <i>Journal of Physics and Chemistry of Solids</i> , 1991, 52, 1055-1059.	4.0	53
77	Allendeite (Sc ₄ Zr ₃ O ₁₂) and hexamolybdenum (Mo,Ru,Fe), two new minerals from an ultrarefractory inclusion from the Allende meteorite. <i>American Mineralogist</i> , 2014, 99, 654-666.	1.9	53
78	Panguite, (Ti ₄₊ ,Sc,Al,Mg,Zr,Ca) _{1.8} O ₃ , a new ultra-refractory titania mineral from the Allende meteorite: Synchrotron micro-diffraction and EBSD. <i>American Mineralogist</i> , 2012, 97, 1219-1225.	1.9	52
79	The hydrous component of pyrope from the Dora Maira Massif, Western Alps. <i>European Journal of Mineralogy</i> , 1989, 1, 151-154.	1.3	51
80	Liebermannite, K ₂ Si ₃ O ₈ , a new shockâ€­metamorphic, highâ€­pressure mineral from the Zagami Martian meteorite. <i>Meteoritics and Planetary Science</i> , 2018, 53, 50-61.	1.6	49
81	Spectroscopic standards for four- and fivefold-coordinated Fe ²⁺ in oxygen-based minerals. <i>American Mineralogist</i> , 2001, 86, 896-903.	1.9	48
82	The Geochemistry of Gems and Its Relevance to Gemology: Different Traces, Different Prices. <i>Elements</i> , 2009, 5, 159-162.	0.5	47
83	Elastic properties of hydrogrossular garnet and implications for water in the upper mantle. <i>Journal of Geophysical Research</i> , 1993, 98, 20031-20037.	3.3	46
84	Water content of the Martian soil: Laboratory simulations of reflectance spectra. <i>Journal of Geophysical Research</i> , 1998, 103, 11125-11133.	3.3	45
85	The Influence of Water on the Optical Properties of Singleâ€­layer Molybdenum Disulfide. <i>Advanced Materials</i> , 2015, 27, 2734-2740.	21.0	44
86	Fibrous nano-inclusions in massive rose quartz: HRTEM and AEM investigations. <i>American Mineralogist</i> , 2002, 87, 269-276.	1.9	43
87	Optical spectroscopic study of tuzovite and a re-examination of the beryl, cordierite, and osumilite spectra. <i>American Mineralogist</i> , 2001, 86, 973-980.	1.9	42
88	Calcium Tschermak's pyroxene, CaAlAlSiO ₆ , from the Allende and Murray meteorites: EBSD and micro-Raman characterizations. <i>American Mineralogist</i> , 2009, 94, 1483-1486.	1.9	42
89	Fast single-photon avalanche diode arrays for laser Raman spectroscopy. <i>Optics Letters</i> , 2011, 36, 3672.	3.3	42
90	Kangite, (Sc,Ti,Al,Zr,Mg,Ca,Å)2O ₃ , a new ultra-refractory scandia mineral from the Allende meteorite: Synchrotron micro-Laue diffraction and electron backscatter diffraction. <i>American Mineralogist</i> , 2013, 98, 870-878.	1.9	42

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91	Monipite, MoNiP, a new phosphide mineral in a Ca-Al-rich inclusion from the Allende meteorite. <i>American Mineralogist</i> , 2014, 99, 198-205.	1.9	42
92	Hydrous species in feldspars: A reassessment based on FTIR and SIMS. <i>American Mineralogist</i> , 2015, 100, 1209-1221.	1.9	42
93	Electronic energy levels in hexahalotellurate(IV) complexes. <i>Journal of the American Chemical Society</i> , 1970, 92, 307-310.	13.7	41
94	Spectroscopic standard for tetrahedrally coordinated ferric iron: ? LiAlO ₂ :Fe ³⁺ . <i>Physics and Chemistry of Minerals</i> , 1983, 9, 212-215.	0.8	41
95	The diffusion behavior of hydrogen in plagioclase feldspar at 800-1000 ÅC: Implications for re-equilibration of hydroxyl in volcanic phenocrysts. <i>American Mineralogist</i> , 2013, 98, 1779-1787.	1.9	41
96	Anisotropic Quantum Well Electro-Optics in Few-Layer Black Phosphorus. <i>Nano Letters</i> , 2019, 19, 269-276.	9.1	40
97	Tunable intraband optical conductivity and polarization-dependent epsilon-near-zero behavior in black phosphorus. <i>Science Advances</i> , 2021, 7, .	10.3	40
98	Infrared and electron microprobe analysis of ammonium ions in hyalophane feldspar. <i>European Journal of Mineralogy</i> , 1992, 4, 847-850.	1.3	40
99	Synthesis and structural characterization of a new cyanomanganate(III) complex, heptapotassium .mu.-oxo-bis[pentacyanomanganate(III)]cyanide. <i>Journal of the American Chemical Society</i> , 1974, 96, 7910-7915.	13.7	39
100	Dielectric constants of crystalline and amorphous spodumene, anorthite and diopside and the oxide additivity rule. <i>Physics and Chemistry of Minerals</i> , 1992, 19, 148.	0.8	39
101	Mn-bearing "oxy-rossmanite" with tetrahedrally coordinated Al and B from Austria: Structure, chemistry, and infrared and optical spectroscopic study. <i>American Mineralogist</i> , 2005, 90, 481-487.	1.9	39
102	Brearleyite, Ca ₁₂ Al ₁₄ O ₃₂ Cl ₂ , a new alteration mineral from the NWA 1934 meteorite. <i>American Mineralogist</i> , 2011, 96, 1199-1206.	1.9	39
103	Tracing the fluid evolution of the Kiruna iron oxide apatite deposits using zircon, monazite, and whole rock trace elements and isotopic studies. <i>Chemical Geology</i> , 2017, 466, 303-322.	3.3	39
104	Nearly 90% Circularly Polarized Emission in Monolayer WS ₂ Single Crystals by Chemical Vapor Deposition. <i>ACS Nano</i> , 2020, 14, 1350-1359.	14.6	39
105	Discovery of davemaoite, CaSiO ₃ -perovskite, as a mineral from the lower mantle. <i>Science</i> , 2021, 374, 891-894.	12.6	39
106	CRYSTAL CHEMISTRY OF DARK BLUE AQUAMARINE FROM THE TRUE BLUE SHOWING, YUKON TERRITORY, CANADA. <i>Canadian Mineralogist</i> , 2010, 48, 597-613.	1.0	38
107	Silica coatings in the Ka'u Desert, Hawaii, a Mars analog terrain: A micromorphological, spectral, chemical, and isotopic study. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
108	Natural hydrous amorphous silica: Quantitation of network speciation and hydroxyl content by ²⁹ Si MAS NMR and vibrational spectroscopy. <i>American Mineralogist</i> , 2012, 97, 203-211.	1.9	38

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109	Miniaturized time-resolved Raman spectrometer for planetary science based on a fast single photon avalanche diode detector array. <i>Applied Optics</i> , 2016, 55, 739.	2.1	38
110	Ferric iron in tourmaline. <i>Physics and Chemistry of Minerals</i> , 1984, 11, 225-234.	0.8	37
111	Fe ²⁺ -Ti ⁴⁺ charge transfer in stoichiometric Fe ²⁺ ,Ti ⁴⁺ -minerals. <i>Physics and Chemistry of Minerals</i> , 1988, 16, 78.	0.8	37
112	Calculated trends of oh infrared stretching vibrations with composition and structure in aluminosilicate molecules. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 425.	0.8	37
113	Estimated optical constants of gypsum in the regions of weak absorptions: Application of scattering theories and comparisons to independent measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	37
114	Amorphous, hydrous, ferric phosphatic dermal granules in <i>Molpadia</i> (Holothuroidea): Physical and chemical characterization and ecologic implications of the bioinorganic fraction. <i>Chemical Geology</i> , 1975, 15, 15-51.	3.3	36
115	Buseckite, (Fe,Zn,Mn)S, a new mineral from the Zakłodzie meteorite. <i>American Mineralogist</i> , 2012, 97, 1226-1233.	1.9	36
116	A heterogeneous lunar interior for hydrogen isotopes as revealed by the lunar highlands samples. <i>Earth and Planetary Science Letters</i> , 2017, 473, 14-23.	4.4	36
117	Single-crystal IR- and UV/VIS-spectroscopic measurements on transition-metal-bearing pyrope: the incorporation of hydroxide in garnet. <i>European Journal of Mineralogy</i> , 2000, 12, 259-271.	1.3	36
118	Limitations of Fe ²⁺ and Mn ²⁺ site occupancy in tourmaline: Evidence from Fe ²⁺ - and Mn ²⁺ -rich tourmaline. <i>American Mineralogist</i> , 2012, 97, 1402-1416.	1.9	35
119	Optical spectra of Co ²⁺ in three synthetic silicate minerals. <i>American Mineralogist</i> , 2001, 86, 889-895.	1.9	34
120	Tourmaline of the elbaite-schorl series from the Himalaya Mine, Mesa Grande, California: A detailed investigation. <i>American Mineralogist</i> , 2010, 95, 24-40.	1.9	34
121	Time-resolved Raman spectroscopy for in situ planetary mineralogy. <i>Applied Optics</i> , 2010, 49, 4951.	2.1	34
122	Direct growth of mm-size twisted bilayer graphene by plasma-enhanced chemical vapor deposition. <i>Carbon</i> , 2020, 156, 212-224.	10.3	34
123	Refractive index and optical dispersion of In ₂ O ₃ , InBO ₃ and gahnite. <i>Materials Research Bulletin</i> , 2013, 48, 2240-2243.	5.2	33
124	IR spectroscopy and OH ²⁺ in silicate garnet: The long quest to document the hydrogarnet substitution. <i>American Mineralogist</i> , 2018, 103, 384-393.	1.9	33
125	Pezzottaite from Ambatovita, Madagascar: A New Gem Mineral. <i>Gems & Gemology</i> , 2003, 39, 284-301.	0.6	33
126	Absorption spectrum of shock-compressed Fe ²⁺ -bearing MgO and the radiative conductivity of the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 1980, 22, 272-276.	1.9	32

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127	Simultaneous pair electronic excitations in a binuclear iron(III) complex. <i>Chemical Physics Letters</i> , 1970, 6, 26-28.	2.6	31
128	Determination of quantitative cation distribution in orthopyroxenes from electronic absorption spectra. <i>Physics and Chemistry of Minerals</i> , 1979, 4, 43-53.	0.8	31
129	Hydroxide in kyanite: A quantitative determination of the absolute amount and calibration of the IR spectrum. <i>American Mineralogist</i> , 2004, 89, 998-1003.	1.9	31
130	Fe-BEARING OLENITE WITH TETRAHEDRALLY COORDINATED Al FROM AN ABYSSAL PEGMATITE AT KUTNA HORA, CZECH REPUBLIC: STRUCTURE, CRYSTAL CHEMISTRY, OPTICAL AND XANES SPECTRA. <i>Canadian Mineralogist</i> , 2006, 44, 23-30.	1.0	31
131	Low water contents in diamond mineral inclusions: Proto-genetic origin in a dry cratonic lithosphere. <i>Earth and Planetary Science Letters</i> , 2016, 433, 125-132.	4.4	31
132	Dielectric constants of tephroite, fayalite and olivine and the oxide additivity rule. <i>Physics and Chemistry of Minerals</i> , 1991, 18, 1.	0.8	30
133	Crystal field stabilization energies of almandine-pyrope and almandine-spessartine garnets determined by FTIR near infrared measurements. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 516.	0.8	30
134	Hydrogen in spessartine-almandine garnets as a tracer of granitic pegmatite evolution. <i>American Mineralogist</i> , 2001, 86, 485-490.	1.9	30
135	Li-bearing tourmalines in Variscan granitic pegmatites from the Moldanubian nappes, Lower Austria. <i>European Journal of Mineralogy</i> , 2012, 24, 695-715.	1.3	30
136	Browneite, MnS, a new sphalerite-group mineral from the Zaklodzie meteorite. <i>American Mineralogist</i> , 2012, 97, 2056-2059.	1.9	30
137	Warkite, Ca ₂ Sc ₆ Al ₆ O ₂₀ , a new mineral in carbonaceous chondrites and a key-stone phase in ultrarefractory inclusions from the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 277, 52-86.	3.9	30
138	Evidence in Tissint for recent subsurface water on Mars. <i>Earth and Planetary Science Letters</i> , 2015, 425, 55-63.	4.4	29
139	Hydrogen in "anhydrous" minerals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990, 45, 41-44.	1.4	28
140	Orientation and motion of water molecules in cordierite: A proton nuclear magnetic resonance study. <i>Physics and Chemistry of Minerals</i> , 1982, 8, 14-19.	0.8	27
141	Crystal chemistry of wadsleyite II and water in the Earth's interior. <i>Physics and Chemistry of Minerals</i> , 2005, 31, 691-705.	0.8	27
142	Anharmonic lattice dynamics of Ag_2 by inelastic neutron scattering and first-principles molecular dynamics simulations. <i>Physical Review B</i> , 2014, 89, .	3.2	27
143	Ambient and cold-temperature infrared spectra and XRD patterns of ammoniated phyllosilicates and carbonaceous chondrite meteorites relevant to Ceres and other solar system bodies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1884-1901.	1.6	27
144	Nitrogen incorporation in silicates and metals: Results from SIMS, EPMA, FTIR, and laser-extraction mass spectrometry. <i>American Mineralogist</i> , 2019, 104, 31-46.	1.9	27

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145	Developments in Gemstone Analysis Techniques and Instrumentation During the 2000s. <i>Gems & Gemology</i> , 2010, 46, 241-257.	0.6	27
146	Exsolution of metallic copper from Lake County labradorite. <i>Geology</i> , 1985, 13, 644.	4.4	26
147	Murchisite, Cr ₅ S ₆ , a new mineral from the Murchison meteorite. <i>American Mineralogist</i> , 2011, 96, 1905-1908.	1.9	26
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