

# George R Rossman

## List of Publications by Year in descending order

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Version: 2024-02-01

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	The atomic arrangement and electronic interactions in vonsenite at 295, 100, and 90 K. <i>American Mineralogist</i> , 2022, 107, 92-99.	1.9	0
2	Coupled hydrogen and fluorine incorporation in garnet: New constraints from FTIR, ERDA, SIMS, and EPMA. <i>American Mineralogist</i> , 2022, 107, 587-602.	1.9	6
3	Electrically Tunable and Dramatically Enhanced Valleyâ€Polarized Emission of Monolayer WS <sub>2</sub> at Room Temperature with Plasmonic Archimedes Spiral Nanostructures. <i>Advanced Materials</i> , 2022, 34, e2104863.	21.0	24
4	New minerals in type A inclusions from Allende and clues to processes in the early solar system: Paqueite, Ca <sub>3</sub> TiSi <sub>2</sub> (Al,Ti,Si) <sub>3</sub> O <sub>14</sub> , and burnettite, Ca <sub>6</sub> AlSi <sub>6</sub> O <sub>24</sub> . <i>Meteoritics and Planetary Science</i> , 2022, 57, 1300-1324.	1.6	4
5	Response to Comment on â€œDiscovery of davemaoite, CaSiO <sub>3</sub> -perovskite, as a mineral from the lower mantleâ€: <i>Science</i> , 2022, 376, eabo2029.	12.6	3
6	Tunable intraband optical conductivity and polarization-dependent epsilon-near-zero behavior in black phosphorus. <i>Science Advances</i> , 2021, 7, .	10.3	40
7	Characterizing Hydration of the Ocean Crust Using Shortwave Infrared Microimaging Spectroscopy of ICDP Oman Drilling Project Cores. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022676.	3.4	1
8	Discovery of davemaoite, CaSiO <sub>3</sub> -perovskite, as a mineral from the lower mantle. <i>Science</i> , 2021, 374, 891-894.	12.6	39
9	Direct growth of mm-size twisted bilayer graphene by plasma-enhanced chemical vapor deposition. <i>Carbon</i> , 2020, 156, 212-224.	10.3	34
10	Nearly 90% Circularly Polarized Emission in Monolayer WS <sub>2</sub> Single Crystals by Chemical Vapor Deposition. <i>ACS Nano</i> , 2020, 14, 1350-1359.	14.6	39
11	The Nature of the Mn(III) Color Centers in Elbaite Tourmalines. <i>Inorganic Chemistry</i> , 2020, 59, 9618-9626.	4.0	3
12	Micro- and nano-size hydrogarnet clusters in calcium silicate garnet: Part II. Mineralogical, petrological, and geochemical aspects. <i>American Mineralogist</i> , 2020, 105, 468-478.	1.9	9
13	Micro- and nano-size hydrogrossular-like clusters in pyrope crystals from ultra-high-pressure rocks of the Dora-Maira Massif, western Alps. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	3
14	Machiite, Al <sub>2</sub> Ti <sub>3</sub> O <sub>9</sub> , a new oxide mineral from the Murchison carbonaceous chondrite: A new ultra-refractory phase from the solar nebula. <i>American Mineralogist</i> , 2020, 105, 239-243.	1.9	25
15	Warkite, Ca <sub>2</sub> Sc <sub>6</sub> Al <sub>6</sub> O <sub>20</sub> , 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
16	Micro- and nano-size hydrogarnet clusters and proton ordering in calcium silicate garnet: Part I. The quest to understand the nature of â€œwaterâ€ in garnet continues. <i>American Mineralogist</i> , 2020, 105, 455-467.	1.9	15
17	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
18	Electronic Spectra of Minerals in the Visible and Near-Infrared Regions. , 2019, , 3-20.		3

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19	Davidbrownite-(NH <sub>4</sub> ), (NH <sub>4</sub> ,K) <sub>5</sub> (V <sup>4+</sup> O) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )[PO <sub>2.75</sub> (OH) <sub>6</sub> a new phosphate-oxalate mineral from the Rowley mine, Arizona, USA. Mineralogical Magazine, 2019, 83, 869-877.	1.4	1
20	Vanadium-rich Muscovite from Austria: Crystal Structure, Chemical Analysis, and Spectroscopic Investigations. Canadian Mineralogist, 2019, 57, 383-389.	1.0	2
21	Anisotropic Quantum Well Electro-Optics in Few-Layer Black Phosphorus. Nano Letters, 2019, 19, 269-276.	9.1	40
22	Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earth's deep mantle. Science, 2018, 359, 1136-1139.	12.6	166
23	Trapping an Iron(VI) Water-Splitting Intermediate in Nonaqueous Media. Joule, 2018, 2, 747-763.	24.0	157
24	Liebermannite, K <sub>3</sub> Si <sub>3</sub> O <sub>8</sub> , a new shock-metamorphic, high-pressure mineral from the Zagami Martian meteorite. Meteoritics and Planetary Science, 2018, 53, 50-61.	1.6	49
25	Impact-melt hygrometer for Mars: The case of shergottite Elephant Moraine (EETA) 79001. Earth and Planetary Science Letters, 2018, 490, 206-215.	4.4	18
26	Ramazzoite, [Mg <sub>8</sub> Cu <sub>12</sub> (PO <sub>4</sub> )(CO <sub>3</sub> ) <sub>4</sub> (OH) <sub>24</sub> (H <sub>2</sub> O) <sub>20</sub> ][(H <sub>0.33</sub> SO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>36</sub> ], the first mineral with a polyoxometalate cation. European Journal of Mineralogy, 2018, 30, 827-834.	1.3	7
27	Bodieite, Bi <sub>3</sub> +2(Te <sub>4</sub> +O <sub>3</sub> ) <sub>2</sub> (SO <sub>4</sub> ), a New Mineral from the Tintic District, Utah, and the Masonic District, California, USA. Canadian Mineralogist, 2018, 56, 763-772.	1.0	6
28	Synthesis of a novel strontium-based wide-bandgap semiconductor via X-ray photochemistry under extreme conditions. Journal of Materials Chemistry C, 2018, 6, 12473-12478.	5.5	11
29	Pararaisaite, the Dimorph of Raisaite, from the North Star Mine, Tintic, Utah, Usa. Canadian Mineralogist, 2018, 56, 811-820.	1.0	2
30	IR spectroscopy and OH <sup>-</sup> in silicate garnet: The long quest to document the hydrogarnet substitution. American Mineralogist, 2018, 103, 384-393.	1.9	33
31	Heat capacity and entropy behavior of andradite: a multi-sample and methodological investigation. European Journal of Mineralogy, 2018, 30, 681-694.	1.3	8
32	Ambient and cold-temperature infrared spectra and XRD patterns of ammoniated phyllosilicates and carbonaceous chondrite meteorites relevant to Ceres and other solar system bodies. Meteoritics and Planetary Science, 2018, 53, 1884-1901.	1.6	27
33	Determination of the crystallographic orientation of SrI <sub>2</sub> crystals. Journal of Crystal Growth, 2018, 498, 263-268.	1.5	2
34	Kyawthuite, Bi <sub>3</sub> +Sb <sub>5</sub> +O <sub>4</sub> , a new gem mineral from Mogok, Burma (Myanmar). Mineralogical Magazine, 2017, 81, 477-484.	1.4	6
35	Tracing the fluid evolution of the Kiruna iron oxide apatite deposits using zircon, monazite, and whole rock trace elements and isotopic studies. Chemical Geology, 2017, 466, 303-322.	3.3	39
36	A heterogeneous lunar interior for hydrogen isotopes as revealed by the lunar highlands samples. Earth and Planetary Science Letters, 2017, 473, 14-23.	4.4	36

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37	Å»abiÅ„skiite, ideally $\text{Ca}(\text{Al}_{0.5}\text{Ta}_{0.5})(\text{SiO}_4)_2\text{O}$ , a new mineral of the titanite group from the PiÅ„awa GÅ³rna pegmatite, the GÅ³ry Sowie Block, southwestern Poland. <i>Mineralogical Magazine</i> , 2017, 81, 591-610.	1.4	5
38	Field Effect Optoelectronic Modulation of Quantum-Confined Carriers in Black Phosphorus. <i>Nano Letters</i> , 2017, 17, 78-84.	9.1	89
39	Electronic environments of ferrous iron in rhyolitic and basaltic glasses at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6306-6322.	3.4	15
40	HEAT TREATMENT OF GEM QUALITY ANDRADITE (VAR. DEMANTOID): IS INTERVALENCE CHARGE TRANSFER NECESSARY FOR BROWN COLORATION IN ANDRADITE?. , 2017, , .		0
41	Lead-tellurium oxysalts from Otto Mountain near Baker, California, USA: XII. Andychristyite, $\text{PbCu}_{2+}\text{Te}_{6+}\text{O}_5(\text{H}_2\text{O})$ , a new mineral with <i>hpc</i> stair-step layers. <i>Mineralogical Magazine</i> , 2016, 80, 1055-1065.	1.4	8
42	Ahrensite, $\hat{1}^3\text{-Fe}_2\text{SiO}_4$ , 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
43	Raman characterization of synthetic magnesian calcites. <i>American Mineralogist</i> , 2016, 101, 2525-2538.	1.9	63
44	Wayneburnhamite, $\text{Pb}_9\text{Ca}_6(\text{Si}_2\text{O}_7)_3(\text{SiO}_4)_3$ , an apatite polysome: The Mn-free analog of ganomalite from Crestmore, California. <i>American Mineralogist</i> , 2016, 101, 2423-2429.	1.9	4
45	Vesuvianite From Pajsberg, Sweden, and the Role of Be In the Vesuvianite Structure. <i>Canadian Mineralogist</i> , 2016, 54, 1525-1537.	1.0	6
46	Fluor-schorl, a new member of the tourmaline supergroup, and new data on schorl from the cotype localities. <i>European Journal of Mineralogy</i> , 2016, 28, 163-177.	1.3	14
47	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
48	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
49	2D Materials: The Influence of Water on the Optical Properties of Single-Layer Molybdenum Disulfide ( <i>Adv. Mater.</i> 17/2015). <i>Advanced Materials</i> , 2015, 27, 2733-2733.	21.0	1
50	Hydrous species in feldspars: A reassessment based on FTIR and SIMS. <i>American Mineralogist</i> , 2015, 100, 1209-1221.	1.9	42
51	Evidence in Tissint for recent subsurface water on Mars. <i>Earth and Planetary Science Letters</i> , 2015, 425, 55-63.	4.4	29
52	Tissintite, $(\text{Ca}, \hat{a}\% \text{Na}, \hat{a}\% \hat{a}-\text{j})\text{AlSi}_2\text{O}_6$ , 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
53	The Influence of Water on the Optical Properties of Single Layer Molybdenum Disulfide. <i>Advanced Materials</i> , 2015, 27, 2734-2740.	21.0	44
54	Silicon isotope systematics of acidic weathering of fresh basalts, Kilauea Volcano, Hawaiiâ€™mi. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 63-81.	3.9	16

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55	Bluebellite and mojaveite, two new minerals from the central Mojave Desert, California, USA. Mineralogical Magazine, 2014, 78, 1325-1340.	1.4	20
56	9. Optical Spectroscopy. , 2014, , 371-398.		1
57	Device and method of optically orienting biaxial crystals for sample preparation. Review of Scientific Instruments, 2014, 85, 093105.	1.3	6
58	Discovery of bridgmanite, the most abundant mineral in Earth, in a shocked meteorite. Science, 2014, 346, 1100-1102.	12.6	243
59	Monipite, MoNiP, a new phosphide mineral in a Ca-Al-rich inclusion from the Allende meteorite. American Mineralogist, 2014, 99, 198-205.	1.9	42
60	Allendeite (Sc4Zr3O12) and hexamolybdenum (Mo,Ru,Fe), two new minerals from an ultrarefractory inclusion from the Allende meteorite. American Mineralogist, 2014, 99, 654-666.	1.9	53
61	Anharmonic lattice dynamics of $\text{Ag}_2\text{Ag}$ by inelastic neutron scattering and first-principles molecular dynamics simulations. Physical Review B, 2014, 89, .	3.2	27
62	Fluorowardite, $\text{NaAl}_3(\text{PO}_4)_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$ , the fluorine analog of wardite from the Silver Coin mine, Valmy, Nevada. American Mineralogist, 2014, 99, 804-810.	1.9	5
63	Ophirite, $\text{Ca}_2\text{Mg}_4[\text{Zn}_2\text{Mn}_{23}(\text{H}_2\text{O})_2(\text{Fe}_3+\text{W}_9\text{O}_{34})_2] \cdot 46\text{H}_2\text{O}$ , a new mineral with a heteropolytungstate tri-lacunary Keggin anion. American Mineralogist, 2014, 99, 1045-1051.	1.9	17
64	Color in Natural Diamonds: The Beauty of Defects. Rocks and Minerals, 2014, 89, 66-75.	0.1	5
65	Timescales and mechanisms of formation of amorphous silica coatings on fresh basalts at K�lauea Volcano, Hawai'i. Journal of Volcanology and Geothermal Research, 2014, 286, 41-54.	2.1	23
66	Lead-tellurium oxysalts from Otto Mountain near Baker, California: X. Bairdite, $\text{Pb}_2\text{Cu}_{42}+\text{Te}_{26}+\text{O}_{10}(\text{OH})_2(\text{SO}_4)(\text{H}_2\text{O})$ , a new mineral with thick HCP layers. American Mineralogist, 2013, 98, 1315-1321.	1.9	18
67	Lead-tellurium oxysalts from Otto Mountain near Baker, California: XI. Eckhardtite, $(\text{Ca,Pb})\text{Cu}_2+\text{Te}_6+\text{O}_5(\text{H}_2\text{O})$ , a new mineral with HCP stair-step layers. American Mineralogist, 2013, 98, 1617-1623.	1.9	15
68	Joteite, $\text{Ca}_2\text{CuAl}[\text{AsO}_4][\text{AsO}_3(\text{OH})]_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$ , a new arsenate with a sheet structure and unconnected acid arsenate groups. Mineralogical Magazine, 2013, 77, 2811-2823.	1.4	7
69	The dumortierite supergroup. II. Three new minerals from the Szklary pegmatite, SW Poland: Nioboholtite, $(\text{Nb}_{0.6}\text{Ti}_{0.4})\text{Al}_6\text{BSi}_3\text{O}_{18}$ , titanoholtite, $(\text{Ti}_{0.75}\text{Zr}_{0.25})\text{Al}_6\text{BSi}_3\text{O}_{18}$ , and szklaryite, $\text{Al}_6\text{BAs}_3\text{O}_{15}$ . Mineralogical Magazine, 2013, 77, 2841-2856.	1.4	9
70	Refractive index and optical dispersion of $\text{In}_2\text{O}_3$ , $\text{InBO}_3$ and gahnite. Materials Research Bulletin, 2013, 48, 2240-2243.	5.2	33
71	Darrellhenryite, $\text{Na}(\text{LiAl}_2)\text{Al}_6(\text{BO}_3)_3\text{Si}_6\text{O}_{18}(\text{OH})_3\text{O}$ , a new mineral from the tourmaline supergroup. American Mineralogist, 2013, 98, 1886-1892.	1.9	20
72	Analysis of hydrogen and fluorine in pyroxenes: I. Orthopyroxene. American Mineralogist, 2013, 98, 1026-1041.	1.9	67

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73	Analysis of hydrogen and fluorine in pyroxenes: II. Clinopyroxene. <i>American Mineralogist</i> , 2013, 98, 1042-1054.	1.9	71
74	Kangite, (Sc,Ti,Al,Zr,Mg,Ca,Å)2O3, 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
75	The dumortierite supergroup. I. A new nomenclature for the dumortierite and holtite groups. <i>Mineralogical Magazine</i> , 2013, 77, 2825-2839.	1.4	14
76	Camaronesite, [Fe3+(H2O)2(PO3OH)]2(SO4)Å·1Å€“2H2O, a new phosphate-sulfate from the Camarones Valley, Chile, structurally related to taranakite. <i>Mineralogical Magazine</i> , 2013, 77, 453-465.	1.4	10
77	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
78	Natural hydrous amorphous silica: Quantitation of network speciation and hydroxyl content by 29Si MAS NMR and vibrational spectroscopy. <i>American Mineralogist</i> , 2012, 97, 203-211.	1.9	38
79	Synthetic B-rich olenite: Correlations of single-crystal structural data. <i>American Mineralogist</i> , 2012, 97, 1591-1597.	1.9	19
80	Panguite, (Ti4+,Sc,Al,Mg,Zr,Ca)1.8O3, 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
81	Limitations of Fe2+ and Mn2+ site occupancy in tourmaline: Evidence from Fe2+- and Mn2+-rich tourmaline. <i>American Mineralogist</i> , 2012, 97, 1402-1416.	1.9	35
82	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
83	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
84	Quantitative laser-induced breakdown spectroscopy of potassium for in-situ geochronology on Mars. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 70, 45-50.	2.9	25
85	Buseckite, (Fe,Zn,Mn)S, a new mineral from the Zakłodzie meteorite. <i>American Mineralogist</i> , 2012, 97, 1226-1233.	1.9	36
86	Laser-induced time-resolved luminescence of natural sillimanite Al2SiO5 and synthetic Al2SiO5 activated by chromium. <i>Journal of Luminescence</i> , 2012, 132, 2855-2862.	3.1	13
87	Browneite, MnS, a new sphalerite-group mineral from the Zakłodzie meteorite. <i>American Mineralogist</i> , 2012, 97, 2056-2059.	1.9	30
88	Krotite, CaAl2O4, a new refractory mineral from the NWA 1934 meteorite. <i>American Mineralogist</i> , 2011, 96, 709-715.	1.9	60
89	Brearleyite, Ca12Al14O32Cl2, a new alteration mineral from the NWA 1934 meteorite. <i>American Mineralogist</i> , 2011, 96, 1199-1206.	1.9	39
90	Yttriaite-(Y): The natural occurrence of Y2O3 from the Bol'shaya Pol'ya River, Subpolar Urals, Russia. <i>American Mineralogist</i> , 2011, 96, 1166-1170.	1.9	12

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91	Fast single-photon avalanche diode arrays for laser Raman spectroscopy. <i>Optics Letters</i> , 2011, 36, 3672.	3.3	42
92	Afmite, $\text{Al}_3(\text{OH})_4(\text{H}_2\text{O})_3(\text{PO}_4)(\text{PO}_3\text{OH})\cdot\text{H}_2\text{O}$ , a new mineral from Fumade, Tarn, France: description and crystal structure. <i>European Journal of Mineralogy</i> , 2011, 23, 269-277.	1.3	5
93	Laser-induced time-resolved luminescence of orange kyanite $\text{Al}_2\text{SiO}_5$ . <i>Optical Materials</i> , 2011, 33, 1476-1480.	3.6	15
94	Dissymmetrization in tourmaline: the atomic arrangement of sectorally zoned triclinic Ni-bearing dravite. <i>Canadian Mineralogist</i> , 2011, 49, 29-40.	1.0	10
95	Analysis of hydrogen in olivine by SIMS: Evaluation of standards and protocol. <i>American Mineralogist</i> , 2011, 96, 1725-1741.	1.9	98
96	Murchisite, $\text{Cr}_5\text{S}_6$ , a new mineral from the Murchison meteorite. <i>American Mineralogist</i> , 2011, 96, 1905-1908.	1.9	26
97	The Chinese red feldspar controversy: Chronology of research through July 2009. <i>Gems &amp; Gemology</i> , 2011, 47, 16-30.	0.6	5
98	DEVITOITE, A NEW HETEROPHYLLOSILICATE MINERAL WITH ASTROPHYLLITE-LIKE LAYERS FROM EASTERN FRESNO COUNTY, CALIFORNIA. <i>Canadian Mineralogist</i> , 2010, 48, 29-40.	1.0	19
99	Lunar apatite with terrestrial volatile abundances. <i>Nature</i> , 2010, 466, 466-469.	27.8	258
100	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
101	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
102	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
103	Time-resolved Raman spectroscopy for in situ planetary mineralogy. <i>Applied Optics</i> , 2010, 49, 4951.	2.1	34
104	Developments in Gemstone Analysis Techniques and Instrumentation During the 2000s. <i>Gems &amp; Gemology</i> , 2010, 46, 241-257.	0.6	27
105	Tistarite, $\text{Ti}_2\text{O}_3$ , a new refractory mineral from the Allende meteorite. <i>American Mineralogist</i> , 2009, 94, 841-844.	1.9	101
106	Mid-infrared reflectance spectra and optical constants of six iron oxide/oxyhydroxide phases. <i>Icarus</i> , 2009, 204, 663-671.	2.5	66
107	The Geochemistry of Gems and Its Relevance to Gemology: Different Traces, Different Prices. <i>Elements</i> , 2009, 5, 159-162.	0.5	47
108	Plumbophyllite, a new species from the Blue Bell claims near Baker, San Bernardino County, California. <i>American Mineralogist</i> , 2009, 94, 1198-1204.	1.9	23

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109	THE CRYSTAL CHEMISTRY OF THE KORNERUPINE-PRISMATINE SERIES. II. THE ROLE OF HYDROGEN. Canadian Mineralogist, 2009, 47, 263-274.	1.0	5
110	Davsite, CaScAlSiO <sub>6</sub> , a new pyroxene from the Allende meteorite. American Mineralogist, 2009, 94, 845-848.	1.9	54
111	Calcium Tschermak's pyroxene, CaAlAlSiO <sub>6</sub> , from the Allende and Murray meteorites: EBSD and micro-Raman characterizations. American Mineralogist, 2009, 94, 1483-1486.	1.9	42
112	Grossmanite, CaTi <sub>3</sub> +AlSiO <sub>6</sub> , a new pyroxene from the Allende meteorite. American Mineralogist, 2009, 94, 1491-1494.	1.9	62
113	Barioperovskite, BaTiO <sub>3</sub> , a new mineral from the Benitoite Mine, California. American Mineralogist, 2008, 93, 154-157.	1.9	59
114	V <sup>3+</sup> -bearing, Mg-rich, strongly disordered olenite from a graphite deposit near Amstall, Lower Austria: A structural, chemical and spectroscopic investigation. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2008, 184, 243-253.	0.3	22
115	GREENISH QUARTZ FROM THE THUNDER BAY AMETHYST MINE PANORAMA, THUNDER BAY, ONTARIO, CANADA. Canadian Mineralogist, 2008, 46, 111-124.	1.0	9
116	Hydrogen analysis in minerals by continuous-flow mass spectrometry. American Mineralogist, 2007, 92, 1990-1997.	1.9	16
117	THE ORIGIN OF COLOR IN "FIRE" OBSIDIAN. Canadian Mineralogist, 2007, 45, 551-557.	1.0	22
118	Thermochromic and photochromic behaviour of "chameleon" diamonds. Diamond and Related Materials, 2007, 16, 401-408.	3.9	16
119	Estimated optical constants of gypsum in the regions of weak absorptions: Application of scattering theories and comparisons to independent measurements. Journal of Geophysical Research, 2007, 112, .	3.3	37
120	Mid-infrared (5-100 $\mu$ m) reflectance spectra and optical constants of ten phyllosilicate minerals. Icarus, 2007, 192, 605-622.	2.5	63
121	Potential protonation sites in the Al <sub>2</sub> SiO <sub>5</sub> polymorphs based on polarized FTIR spectroscopy and properties of the electron density distribution. Physics and Chemistry of Minerals, 2007, 34, 295-306.	0.8	5
122	Yellow Mn-Rich Tourmaline From The Canary Mining Area, Zambia. Gems & Gemology, 2007, 43, 314-331.	0.6	6
123	Hydrogen incorporation in olivine from 2-12 GPa. American Mineralogist, 2006, 91, 285-294.	1.9	194
124	Analytical Methods for Measuring Water in Nominally Anhydrous Minerals. Reviews in Mineralogy and Geochemistry, 2006, 62, 1-28.	4.8	92
125	Low Voltage FESEM of Geological Materials. Microscopy Today, 2006, 14, 20-23.	0.3	20
126	1. Analytical Methods for Measuring Water in Nominally Anhydrous Minerals. , 2006, , 1-28.		10



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142	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
143	Pezzottaite from Ambatovita, Madagascar: A New Gem Mineral. <i>Gems &amp; Gemology</i> , 2003, 39, 284-301.	0.6	33
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