Craig E Manning

List of Publications by Year
in descending order

129 papers	12,160 citations	22153 59 h-index	26613 107 g-index
155 all docs	155 docs citations	155 times ranked	7002 citing authors

#	Article	IF	Citations
1	Deep Sourced Fluids for Peridotite Carbonation in the Shallow Mantle Wedge of a Fossil Subduction Zone: Sr and C Isotope Profiles of OmanDP Hole BT1B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	11
2	Listvenite Formation During Mass Transfer into the Leading Edge of the Mantle Wedge: Initial Results from Oman Drilling Project Hole BT1B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	11
3	Hydrothermal Alteration of the Ocean Crust and Patterns in Mineralization With Depth as Measured by Microâ€Imaging Infrared Spectroscopy. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021976.	3.4	7
4	Brittle Deformation of Carbonated Peridotiteâ€”Insights From Listvenites of the Samail Ophiolite (Oman Drilling Project Hole BT1B). Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020199.	3.4	17
5	Carbonate melts in the hydrous upper mantle. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	13
6	Dissolution susceptibility of glass-like carbon versus crystalline graphite in high-pressure aqueous fluids and implications for the behavior of organic matter in subduction zones. Geochimica Et Cosmochimica Acta, 2020, 273, 383-402.	3.9	19
7	The Viscosity and Atomic Structure of Volatile-Bearing Melilititic Melts at High Pressure and Temperature and the Transport of Deep Carbon. Minerals (Basel, Switzerland), 2020, 10, 267.	2.0	5
8	Diopside, enstatite and forsterite solubilities in H2O and H2O-NaCl solutions at lower crustal and upper mantle conditions. Geochimica Et Cosmochimica Acta, 2020, 279, 119-142.	3.9	21
9	Subduction-Zone Fluids. Elements, 2020, 16, 395-400.	0.5	45
10	Absence of amorphous forms when ice is compressed at low temperature. Nature, 2019, 569, 542-545.	27.8	47
11	Carbon sequestration during core formation implied by complex carbon polymerization. Nature Communications, 2019, 10, 789.	12.8	27
12	Subducting carbon. Nature, 2019, 574, 343-352.	27.8	250
13	The Behavior of Halogens During Subduction-Zone Processes. Springer Geochemistry, 2018, , 545-590.	0.1	39
14	Fluids of the Lower Crust: Deep Is Different. Annual Review of Earth and Planetary Sciences, 2018, 46, 67-97.	11.0	96
15	Experimental determination of the viscosity of Na2CO3 melt between 1.7 and 4.6â€¯GPa at 1200â€“1700â€¯Â°C: Implications for the rheology of carbonatite magmas in the Earth's upper mantle. Chemical Geology, 2018, 501, 19-25.	3.3	29
16	The Influence of Pressure on the Properties and Origins of Hydrous Silicate Liquids in Earth's Interior. , 2018, , 83-113.		6
17	Magmatic evolution of the Campi Flegrei and Procida volcanic fields, Italy, based on interpretation of data from well-constrained melt inclusions. Earth-Science Reviews, 2018, 185, 325-356.	9.1	16
18	The solubility of apatite in H2O, KCl-H2O, NaCl-H2O at 800 Â°C and 1.0 GPa: Implications for REE mobility in high-grade saline brines. Chemical Geology, 2017, 470, 180-192.	3.3	17

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19	The solubility of CePO4 monazite and YPO4 xenotime in KCl-H2O fluids at 800 Â°C and 1.0 GPa: Implications for REE transport in high-grade crustal fluids. American Mineralogist, 2017, 102, 2457-2466.	1.9	14
20	Argon, oxygen, and boron isotopic evidence documenting 40ArE accumulation in phengite during water-rich high-pressure subduction metasomatism of continental crust. Earth and Planetary Science Letters, 2016, 446, 56-67.	4.4	30
21	High-pressure compressibility and thermal expansion of aragonite. American Mineralogist, 2016, 101, 1651-1658.	1.9	30
22	Detection of liquid H₂O in vapor bubbles in reheated melt inclusions: Implications for magmatic fluid composition and volatile budgets of magmas?. American Mineralogist, 2016, 101, 1691-1695.	1.9	32
23	Implications for metal and volatile cycles from the pH of subduction zone fluids. Nature, 2016, 539, 420-424.	27.8	93
24	Reevaluating carbon fluxes in subduction zones, what goes down, mostly comes up. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3997-4006.	7.1	492
25	High-temperature equilibrium isotope fractionation of non-traditional stable isotopes: Experiments, theory, and applications. Chemical Geology, 2015, 395, 176-195.	3.3	163
26	Crystal chemical constraints on inter-mineral Fe isotope fractionation and implications for Fe isotope disequilibrium in San Carlos mantle xenoliths. Geochimica Et Cosmochimica Acta, 2015, 154, 168-185.	3.9	57
27	Experimental determination of quartz solubility and melting in the system SiO2â€“H2Oâ€“NaCl at 15â€“20Âkbar and 900â€“1100ÂÂ°C: implications for silica polymerization and the formation of supercritical fluids. Contributions To Mineralogy and Petrology, 2015, 170, 1.	3.1	27
28	The global range of subduction zone thermal structures from exhumed blueschists and eclogites: Rocks are hotter than models. Earth and Planetary Science Letters, 2015, 428, 243-254.	4.4	258
29	The solubility of rocks in metamorphic fluids: A model for rock-dominated conditions to upper mantle pressure and temperature. Earth and Planetary Science Letters, 2015, 430, 486-498.	4.4	68
30	Redox effects on calcite-portlandite-fluid equilibria at forearc conditions: Carbon mobility, methanogenesis, and reduction melting of calcite. American Mineralogist, 2014, 99, 1604-1615.	1.9	18
31	A piece of the deep carbon puzzle. Nature Geoscience, 2014, 7, 333-334.	12.9	38
32	Ultralow viscosity of carbonate melts at high pressures. Nature Communications, 2014, 5, 5091.	12.8	124
33	Aluminum speciation in aqueous fluids at deep crustal pressure and temperature. Geochimica Et Cosmochimica Acta, 2014, 133, 128-141.	3.9	20
34	Dehydration melting and the relationship between granites and granulites. Precambrian Research, 2014, 253, 26-37.	2.7	72
35	Brines at high pressure and temperature: Thermodynamic, petrologic and geochemical effects. Precambrian Research, 2014, 253, 6-16.	2.7	76
36	Thermodynamic Modeling of Fluid-Rock Interaction at Mid-Crustal to Upper-Mantle Conditions. Reviews in Mineralogy and Geochemistry, 2013, 76, 135-164.	4.8	57

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37	Brine-assisted anatexis: Experimental melting in the system haplograniteâ€“H2Oâ€“NaClâ€“KCl at deep-crustal conditions. Earth and Planetary Science Letters, 2013, 374, 111-120.	4.4	87
38	Experimental determination of equilibrium magnesium isotope fractionation between spinel, forsterite, and magnesite from 600 to 800 Â°C. Geochimica Et Cosmochimica Acta, 2013, 118, 18-32.	3.9	49
39	Experimental determination of <scp><scp>CePO</scp>₄</scp> and <scp><scp>YPO</scp>₄</scp> solubilities in <scp><scp>H₂O</scp></scp>â€“<scp><scp>NaF</scp></scp> at 800Â°<scp>C</scp> and 1ÂGPa: implications for rare earth element transport in highâ€grade metamorphic fluids. Geofluids, 2013, 13, 378-390.	0.7	69
40	Deep water gives up another secret. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6616-6617.	7.1	2
41	Introduction to thematic issue on fluid and melt inclusions. Geofluids, 2013, 13, 395-397.	0.7	2
42	The Chemistry of Carbon in Aqueous Fluids at Crustal and Upper-Mantle Conditions: Experimental and Theoretical Constraints. Reviews in Mineralogy and Geochemistry, 2013, 75, 109-148.	4.8	115
43	Spectroscopic and X-ray diffraction investigation of the behavior of hanksite and tychite at high pressures, and a model for the compressibility of sulfate minerals. American Mineralogist, 2013, 98, 1543-1549.	1.9	5
44	Insights from X-ray absorption/fluorescence spectroscopy and ab-initio molecular dynamics on concentration and complexa-tion of Zr and Hf in aqueous fluids at high pressure and temperature. Journal of Physics: Conference Series, 2013, 430, 012122.	0.4	6
45	Effect of Sediments on Aqueous Silica Transport in Subduction Zones. Geophysical Monograph Series, 2013, , 277-284.	0.1	7
46	5. The Chemistry of Carbon in Aqueous Fluids at Crustal and Upper-Mantle Conditions: Experimental and Theoretical Constraints. , 2013, , 109-148.		6
47	Metamorphic replacement of mineral inclusions in detrital zircon from Jack Hills, Australia: Implications for the Hadean Earth: COMMENT. Geology, 2012, 40, e281-e281.	4.4	15
48	Abiogenic methanogenesis during experimental komatiite serpentinization: Implications for the evolution of the early Precambrian atmosphere. Chemical Geology, 2012, 326-327, 102-112.	3.3	54
49	Zircon solubility and zirconium complexation in H2O+Na2O+SiO2Â±Al2O3 fluids at high pressure and temperature. Earth and Planetary Science Letters, 2012, 349-350, 15-25.	4.4	108
50	Experimental determination of equilibrium nickel isotope fractionation between metal and silicate from 500Â°C to 950Â°C. Geochimica Et Cosmochimica Acta, 2012, 86, 276-295.	3.9	45
51	A thermodynamic model for the system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> near the upper critical end point based on quartz solubility experiments at 500â€“1100 Â°C and 5â€“2. Geochimica Et Cosmochimica Acta, 2012, 86, 196-213.	3.9	49
52	Global variations in H₂O/Ce: 1. Slab surface temperatures beneath volcanic arcs. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	122
53	Dolomite III: A new candidate lower mantle carbonate. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	48
54	An experimental study of OH solubility in rutile at 500-900 ÂC, 0.5-2 GPa, and a range of oxygen fugacities. American Mineralogist, 2011, 96, 1291-1299.	1.9	19

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55	Sulfur Surprises in Deep Geological Fluids. Science, 2011, 331, 1018-1019.	12.6	15
56	Polymerization of aqueous silica in H2Oâ€“K2O solutions at 25â€“200Â°C and 1bar to 20kbar. Chemical Geology, 2011, 283, 161-170.	3.3	59
57	Solubility of CePO4 monazite and YPO4 xenotime in H2O and H2Oâ€“NaCl at 800Â°C and 1GPa: Implications for REE and Y transport during high-grade metamorphism. Chemical Geology, 2011, 282, 58-66.	3.3	118
58	Rutile solubility in supercritical NaAlSi3O8â€“H2O fluids. Chemical Geology, 2011, 284, 74-81.	3.3	74
59	Experimental investigation of the solubility of albite and jadeite in H2O, with paragonite+quartz at 500 and 600Â°C, and 1â€“2.25GPa. Geochimica Et Cosmochimica Acta, 2011, 75, 2924-2939.	3.9	46
60	Title is missing!. , 2011, 7, 1013.		176
61	Presentation of the 2010 Roebling Medal of the Mineralogical Society of America to Robert C. Newton. American Mineralogist, 2011, 96, 948-949.	1.9	0
62	Role of saline fluids in deepâ€crustal and upperâ€mantle metasomatism: insights from experimental studies. Geofluids, 2010, 10, 58-72.	0.7	53
63	Permeability of the continental crust: dynamic variations inferred from seismicity and metamorphism. Geofluids, 2010, 10, 193-205.	0.7	176
64	Thermodynamic model for mineral solubility in aqueous fluids: theory, calibration and application to model fluidâ€flow systems. Geofluids, 2010, 10, 20-40.	0.7	65
65	Frontiers in geofluids: editorial. Geofluids, 2010, 10, 1-2.	0.7	4
66	Premelting polymerization of crustal and mantle fluids, as indicated by the solubility of albite+paragonite+quartz in H2O at 1GPa and 350â€“620Â°C. Earth and Planetary Science Letters, 2010, 292, 325-336.	4.4	73
67	Constraints on Hadean geodynamics from mineral inclusions in >4Ga zircons. Earth and Planetary Science Letters, 2010, 298, 367-376.	4.4	141
68	Free energy of formation of zircon based on solubility measurements at high temperature and pressure. American Mineralogist, 2010, 95, 52-58.	1.9	18
69	Hydration state and activity of aqueous silica in H2O-CO2 fluids at high pressure and temperature. American Mineralogist, 2009, 94, 1287-1290.	1.9	38
70	Emerging geothermometers for estimating slab surface temperatures. Nature Geoscience, 2009, 2, 611-615.	12.9	195
71	Phaseâ€equilibrium constraints on titanite and rutile activities in mafic epidote amphibolites and geobarometry using titaniteâ€“rutile equilibria. Journal of Metamorphic Geology, 2009, 27, 509-521.	3.4	45
72	Spinelâ€“olivine magnesium isotope thermometry in the mantle and implications for the Mg isotopic composition of Earth. Earth and Planetary Science Letters, 2009, 288, 524-533.	4.4	142

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73	Solubility of corundum in aqueous KOH solutions at 700ÂÂ°C and 1ÂGPa. Chemical Geology, 2009, 262, 310-317.	3.3	22
74	Metamorphic evolution, mineral chemistry and thermobarometry of orthogneiss hosting ultrahigh-pressure eclogites in the North Qaidam metamorphic belt, Western China. Journal of Asian Earth Sciences, 2009, 35, 273-284.	2.3	77
75	Tectonic development of the southern Chinese Altai Range as determined by structural geology, thermobarometry,⁴⁰Ar/³⁹Ar thermochronology, and Th/Pb ion-microprobe monazite geochronology. Bulletin of the Geological Society of America, 2009, 121, 1381-1393.	3.3	74
76	Low heat flow inferred from >4â€‰Gyr zircons suggests Hadean plate boundary interactions. Nature, 2008, 456, 493-496.	27.8	259
77	Equilibrium high-temperature Fe isotope fractionation between fayalite and magnetite: An experimental calibration. Earth and Planetary Science Letters, 2008, 268, 330-338.	4.4	145
78	Rutile solubility in albite-H2O and Na2Si3O7-H2O at high temperatures and pressures by in-situ synchrotron radiation micro-XRF. Earth and Planetary Science Letters, 2008, 272, 730-737.	4.4	111
79	Thermodynamics of SiO2â€“H2O fluid near the upper critical end point from quartz solubility measurements at 10Âkbar. Earth and Planetary Science Letters, 2008, 274, 241-249.	4.4	97
80	Solubility of corundum in the system Al2O3â€“SiO2â€“H2Oâ€“NaCl at 800ÂÂ°C and 10Âkbar. Chemical Geology, 2008, 249, 250-261.	3.3	62
81	Fluorapatite solubility in H2O and H2Oâ€“NaCl at 700 to 900ÂÂ°C and 0.7 to 2.0ÂGPa. Chemical Geology, 2008, 251, 112-119.	3.3	76
82	The current status of titaniteâ€“rutile thermobarometry in ultrahigh-pressure metamorphic rocks: The influence of titanite activity models on phase equilibrium calculations. Chemical Geology, 2008, 254, 123-132.	3.3	31
83	Rutile solubility in H2O, H2Oâ€“SiO2, and H2Oâ€“NaAlSi3O8 fluids at 0.7â€“2.0ÂGPa and 700â€“1000ÂÂ°C: Implications for mobility of nominally insoluble elements. Chemical Geology, 2008, 255, 283-293.	3.3	176
84	Solubility of andradite, Ca3Fe2Si3O12, in a 10 mol% NaCl solution at 800 ÂC and 10 kbar: Implications for the metasomatic origin of grandite garnet in calc-silicate granulites. American Mineralogist, 2008, 93, 886-892.	1.9	22
85	Early Paleozoic Tectonic and Thermomechanical Evolution of Ultrahigh-Pressure (UHP) Metamorphic Rocks in the Northern Tibetan Plateau, Northwest China. International Geology Review, 2007, 49, 681-716.	2.1	179
86	Late Paleozoic tectonic history of the Ertix Fault in the Chinese Altai and its implications for the development of the Central Asian Orogenic System. Bulletin of the Geological Society of America, 2007, 119, 944-960.	3.3	186
87	Oxygen isotope evidence for short-lived high-temperature fluid flow in the lower oceanic crust at fast-spreading ridges. Earth and Planetary Science Letters, 2007, 260, 524-536.	4.4	15
88	The solubility of corundum in H2O at high pressure and temperature and its implications for Al mobility in the deep crust and upper mantle. Chemical Geology, 2007, 240, 54-60.	3.3	68
89	The solubility of fluorite in H2O and H2Oâ€“NaCl at high pressure and temperature. Chemical Geology, 2007, 242, 299-306.	3.3	58
90	Solubility of grossular, Ca3Al2Si3O12, in H2Oâ€“NaCl solutions at 800Â°C and 10kbar, and the stability of garnet in the system CaSiO3â€“Al2O3â€“H2Oâ€“NaCl. Geochimica Et Cosmochimica Acta, 2007, 71, 5191-5202.	3.9	40

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91	Cenozoic evolution of the eastern Pamir: Implications for strain-accommodation mechanisms at the western end of the Himalayan-Tibetan orogen. Bulletin of the Geological Society of America, 2007, 119, 882-896.	3.3	187
92	Solubility of corundumâ€ƒ+â€ƒkyanite in H2O at 700Â°C and 10â€ƒkbar: evidence for Al-Si complexing at high pressure and temperature. Geofluids, 2007, 7, 258-269.	0.7	77
93	Is Mars alive?. Eos, 2006, 87, 433.	0.1	50
94	Solubilities of corundum, wollastonite and quartz in H2Oâ€“NaCl solutions at 800Â°C and 10kbar: Interaction of simple minerals with brines at high pressure and temperature. Geochimica Et Cosmochimica Acta, 2006, 70, 5571-5582.	3.9	74
95	Mobilizing aluminum in crustal and mantle fluids. Journal of Geochemical Exploration, 2006, 89, 251-253.	3.2	41
96	Geology, Age and Origin of Supracrustal Rocks at Akilia, West Greenland. Numerische Mathematik, 2006, 306, 303-366.	1.4	81
97	Gibbs Free Energy of Formation of Zircon from Measurement of Solubility in H2O. Journal of the American Ceramic Society, 2005, 88, 1854-1858.	3.8	24
98	Very low solubility of rutile in H2O at high pressure and temperature, and its implications for Ti mobility in subduction zones. American Mineralogist, 2005, 90, 502-505.	1.9	113
99	A short timescale for changing oxygen fugacity in the solar nebula revealed by high-resolution 26Alâ€“26Mg dating of CAI rims. Earth and Planetary Science Letters, 2005, 238, 272-283.	4.4	66
100	Formation of methane on Mars by fluid-rock interaction in the crust. Geophysical Research Letters, 2005, 32, .	4.0	107
101	Tectonic evolution of the northeastern Pamir: Constraints from the northern portion of the Cenozoic Kongur Shan extensional system, western China. Bulletin of the Geological Society of America, 2004, 116, 953.	3.3	219
102	The chemistry of subduction-zone fluids. Earth and Planetary Science Letters, 2004, 223, 1-16.	4.4	682
103	Activity coefficient and polymerization of aqueous silica at 800ï¿½ï¿½C, 12ï¿½kbar, from solubility measurements on SiO2-buffering mineral assemblages. Contributions To Mineralogy and Petrology, 2003, 146, 135-143.	3.1	71
104	The solubility of calcite in water at 6?16ï¿½kbar and 500?800ï¿½ï¿½C. Contributions To Mineralogy and Petrology, 2003, 146, 275-285.	3.1	152
105	Tectonic evolution of the early Mesozoic blueschist-bearing Qiangtang metamorphic belt, central Tibet. Tectonics, 2003, 22, n/a-n/a.	2.8	351
106	Layering in the wall rock of Valles Marineris: intrusive and extrusive magmatism. Geophysical Research Letters, 2003, 30, .	4.0	34
107	Implications of crustal permeability for fluid movementbetween terrestrial fluid reservoirs. Journal of Geochemical Exploration, 2003, 78-79, 1-6.	3.2	17
108	Diffuse fluid flux through orogenic belts: Implications for the world ocean. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9113-9116.	7.1	48

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109	Structural evolution of the Gurla Mandhata detachment system, southwest Tibet: Implications for the eastward extent of the Karakoram fault system. Bulletin of the Geological Society of America, 2002, 114, 428-447.	3.3	182
110	Experimental determination of calcite solubility in H₂O-NaCl solutions at deep crust/upper mantle pressures and temperatures: Implications for metasomatic processes in shear zones. American Mineralogist, 2002, 87, 1401-1409.	1.9	128
111	The Substitution of Al and F in Titanite at High Pressure and Temperature: Experimental Constraints on Phase Relations and Solid Solution Properties. Journal of Petrology, 2002, 43, 1787-1814.	2.8	63
112	Experimental determination of the equilibria: rutile + magnesite = geikielite + CO2and zircon + 2 magnesite = baddeleyite + forsterite + 2 CO2. American Mineralogist, 2002, 87, 1342-1350.	1.9	22
113	Solubility of enstatite + forsterite in H2O at deep crust/upper mantle conditions: 4 to 15 kbar and 700 to 900Â°c. Geochimica Et Cosmochimica Acta, 2002, 66, 4165-4176.	3.9	95
114	Records of the evolution of the Himalayan orogen from in situ Thâ€“Pb ion microprobe dating of monazite: Eastern Nepal and western Garhwal. Journal of Asian Earth Sciences, 2002, 20, 459-479.	2.3	181
115	Geochronologic and thermobarometric constraints on the evolution of the Main Central Thrust, central Nepal Himalaya. Journal of Geophysical Research, 2001, 106, 16177-16204.	3.3	281
116	Quartz solubility in H2O-NaCl and H2O-CO2 solutions at deep crust-upper mantle pressures and temperatures: 2â€“15 kbar and 500â€“900Â°C. Geochimica Et Cosmochimica Acta, 2000, 64, 2993-3005.	3.9	236
117	Metasomatic Phase Relations in the System CaO-MgO-SiO2-H2O-NaCl at High Temperatures and Pressures. International Geology Review, 2000, 42, 152-162.	2.1	13
118	Blueschist-bearing metamorphic core complexes in the Qiangtang block reveal deep crustal structure of northern Tibet. Geology, 2000, 28, 19.	4.4	306
119	Blueschist-bearing metamorphic core complexes in the Qiangtang block reveal deep crustal structure of northern Tibet. Geology, 2000, 28, 19-22.	4.4	15
120	Significant late Neogene east-west extension in northern Tibet. Geology, 1999, 27, 787.	4.4	137
121	Geological implications of a permeability-depth curve for the continental crust. Geology, 1999, 27, 1107.	4.4	213
122	Permeability of the continental crust: Implications of geothermal data and metamorphic systems. Reviews of Geophysics, 1999, 37, 127-150.	23.0	553
123	Petrology and geochemistry of the Kruuse Fjord Gabbro Complex, East Greenland. Geological Magazine, 1997, 134, 67-89.	1.5	14
124	Coupled Reaction and Flow in Subduction Zones: Silica Metasomatism in the Mantle Wedge. , 1997, , 139-148.		24
125	Rapid high-temperature metamorphism of East Pacific Rise gabbros from Hess Deep. Earth and Planetary Science Letters, 1996, 144, 123-132.	4.4	88
126	Phase-Equilibrium Controls on SiO₂Metasomatism by Aqueous Fluid in Subduction Zones: Reaction at Constant Pressure and Temperature. International Geology Review, 1995, 37, 1074-1093.	2.1	53

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127	The solubility of quartz in H2O in the lower crust and upper mantle. Geochimica Et Cosmochimica Acta, 1994, 58, 4831-4839.	3.9	480
128	Fractal clustering of metamorphic veins. Geology, 1994, 22, 335-338.	4.4	46
129	Hydrothermal clinopyroxenes of the Skaergaard intrusion. Contributions To Mineralogy and Petrology, 1986, 92, 437-447.	3.1	47