

# François Guyot

## List of Publications by Year in descending order

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257  
papers

13,679  
citations

17440

63  
h-index

32842

100  
g-index

264  
all docs

264  
docs citations

264  
times ranked

11739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Partitioning in Earth's Mantle: Toward a Deep Lower Mantle Discontinuity. <i>Science</i> , 2003, 300, 789-791.	12.6	483
2	The chemical composition of the Earth: Enstatite chondrite models. <i>Earth and Planetary Science Letters</i> , 2010, 293, 259-268.	4.4	363
3	Electronic Transitions in Perovskite: Possible Nonconvecting Layers in the Lower Mantle. <i>Science</i> , 2004, 305, 383-386.	12.6	354
4	Chains of Magnetosomes Extracted from AMB-1 Magnetotactic Bacteria for Application in Alternative Magnetic Field Cancer Therapy. <i>ACS Nano</i> , 2011, 5, 6279-6296.	14.6	268
5	Iron biomineralization by anaerobic neutrophilic iron-oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 696-711.	3.9	255
6	Influence of amorphous silica layer formation on the dissolution rate of olivine at 90°C and elevated pCO <sub>2</sub> . <i>Chemical Geology</i> , 2011, 284, 193-209.	3.3	251
7	Carbonation of Ca-bearing silicates, the case of wollastonite: Experimental investigations and kinetic modeling. <i>Chemical Geology</i> , 2009, 265, 63-78.	3.3	225
8	Effect of light elements on the sound velocities in solid iron: Implications for the composition of Earth's core. <i>Earth and Planetary Science Letters</i> , 2007, 254, 233-238.	4.4	222
9	Pressure-Induced Landau-Type Transition in Stishovite. , 1998, 282, 720-724.		213
10	Nanoscale detection of organic signatures in carbonate microbialites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9440-9445.	7.1	212
11	Thermal equation of state of CaSiO <sub>3</sub> perovskite. <i>Journal of Geophysical Research</i> , 1996, 101, 661-672.	3.3	177
12	High-pressure behaviour of serpentine minerals: a Raman spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 269-277.	0.8	176
13	Zn isotopic fractionation caused by sorption on goethite and 2-Lines ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4886-4900.	3.9	165
14	Experimental evidence for carbonate stability in the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 1993, 118, 31-41.	4.4	158
15	High-temperature thermodynamic properties of forsterite. <i>Journal of Geophysical Research</i> , 1991, 96, 11805-11816.	3.3	155
16	XANES Evidence for Oxidation of Cr(III) to Cr(VI) by Mn-Oxides in a Lateritic Regolith Developed on Serpentinized Ultramafic Rocks of New Caledonia. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7384-7390.	10.0	154
17	Density measurements of liquid Fe-S alloys at high-pressure. <i>Geophysical Research Letters</i> , 2000, 27, 811-814.	4.0	152
18	Extracellular Iron Biomineralization by Photoautotrophic Iron-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5586-5591.	3.1	152

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19	Sound Velocities in Iron to 110 Gigapascals. <i>Science</i> , 2001, 291, 468-471.	12.6	151
20	Nucleation of calcium carbonate on bacterial nanoglobules. <i>Geology</i> , 2006, 34, 1017.	4.4	151
21	Experimental and numerical modeling of bacterially induced pH increase and calcite precipitation in saline aquifers. <i>Chemical Geology</i> , 2009, 265, 44-53.	3.3	142
22	Bacterial diversity and carbonate precipitation in the giant microbialites from the highly alkaline Lake Van, Turkey. <i>Extremophiles</i> , 2005, 9, 263-274.	2.3	137
23	Exceptional preservation of fossil plant spores in high-pressure metamorphic rocks. <i>Earth and Planetary Science Letters</i> , 2007, 262, 257-272.	4.4	136
24	Transformation of vivianite by anaerobic nitrate-reducing iron-oxidizing bacteria. <i>Geobiology</i> , 2009, 7, 373-384.	2.4	133
25	Multidisciplinary Evidences that <i>Synechocystis</i> PCC6803 Exopolysaccharides Operate in Cell Sedimentation and Protection against Salt and Metal Stresses. <i>PLoS ONE</i> , 2013, 8, e55564.	2.5	133
26	New host for carbon in the deep Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5184-5187.	7.1	118
27	Mechanism of wollastonite carbonation deduced from micro- to nanometer length scale observations. <i>American Mineralogist</i> , 2009, 94, 1707-1726.	1.9	117
28	Arsenite sorption at the magnetite-water interface during aqueous precipitation of magnetite: EXAFS evidence for a new arsenite surface complex. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2573-2586.	3.9	113
29	Preparation of chains of magnetosomes, isolated from <i>Magnetospirillum magneticum</i> strain AMB-1 magnetotactic bacteria, yielding efficient treatment of tumors using magnetic hyperthermia. <i>International Journal of Pharmaceutics</i> , 2012, 434, 444-452.	5.2	111
30	Structural refinements of magnesite at very high pressure. <i>American Mineralogist</i> , 2002, 87, 1261-1265.	1.9	107
31	Extended X-ray Absorption Fine Structure Analysis of Arsenite and Arsenate Adsorption on Magnetite. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2361-2366.	10.0	107
32	Electron microscopy of (Mg, Fe)SiO <sub>3</sub> Perovskite: Evidence for structural phase transitions and implications for the lower mantle. <i>Journal of Geophysical Research</i> , 1992, 97, 12327-12347.	3.3	102
33	The Earth's core composition from high pressure density measurements of liquid iron alloys. <i>Earth and Planetary Science Letters</i> , 2013, 373, 169-178.	4.4	99
34	Evidence for Different Surface Speciation of Arsenite and Arsenate on Green Rust: An EXAFS and XANES Study. <i>Environmental Science &amp; Technology</i> , 2010, 44, 109-115.	10.0	98
35	Alteration of submarine basaltic glass from the Ontong Java Plateau: A STXM and TEM study. <i>Earth and Planetary Science Letters</i> , 2007, 260, 187-200.	4.4	97
36	New insights on the metabolic diversity among the epibiotic microbial community of the hydrothermal shrimp <i>Rimicaris exoculata</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 359, 131-140.	1.5	97

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37	Biologically controlled precipitation of calcium phosphate by <i>Ramlibacter tataouinensis</i> . <i>Earth and Planetary Science Letters</i> , 2004, 228, 439-449.	4.4	93
38	Enhanced antitumor efficacy of biocompatible magnetosomes for the magnetic hyperthermia treatment of glioblastoma. <i>Theranostics</i> , 2017, 7, 4618-4631.	10.0	93
39	High-pressure and high-temperature reactions between silicates and liquid iron alloys, in the diamond anvil cell, studied by analytical electron microscopy. <i>Journal of Geophysical Research</i> , 1992, 97, 4477-4487.	3.3	89
40	Use of bacterial magnetosomes in the magnetic hyperthermia treatment of tumours: A review. <i>International Journal of Hyperthermia</i> , 2013, 29, 801-809.	2.5	89
41	Twinning in MgSiO <sub>3</sub> Perovskite. <i>Science</i> , 1990, 248, 468-471.	12.6	88
42	Arsenite sequestration at the surface of nano-Fe(OH) <sub>2</sub> , ferrous-carbonate hydroxide, and green-rust after bioreduction of arsenic-sorbed lepidocrocite by <i>Shewanella putrefaciens</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1359-1381.	3.9	88
43	Nanobacteria-like calcite single crystals at the surface of the Tataouine meteorite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7438-7442.	7.1	87
44	Cr(VI) detoxification by <i>Desulfovibrio vulgaris</i> strain Hildenborough: microbe-metal interactions studies. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 892-897.	3.6	86
45	Contrasting isotopic signatures between anthropogenic and geogenic Zn and evidence for post-depositional fractionation processes in smelter-impacted soils from Northern France. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2295-2308.	3.9	86
46	Equation of state of iron up to 1500 GPa. <i>Physical Review B</i> , 2013, 87, .	3.2	84
47	High-pressure, high-temperature Raman spectroscopy of Ca <sub>2</sub> GeO <sub>4</sub> (olivine form): some insights on anharmonicity. <i>Physics of the Earth and Planetary Interiors</i> , 1989, 58, 141-154.	1.9	83
48	Phase changes and thermodynamic properties of CaTiO <sub>3</sub> . Spectroscopic data, vibrational modelling and some insights on the properties of MgSiO <sub>3</sub> perovskite. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 159-170.	0.8	80
49	Reduced gas seepages in ophiolitic complexes: Evidences for multiple origins of the H <sub>2</sub> -CH <sub>4</sub> -N <sub>2</sub> gas mixtures. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 437-461.	3.9	80
50	Thermal equation of state of iron and Fe <sub>0.91</sub> Si <sub>0.09</sub> . <i>Physics and Chemistry of Minerals</i> , 1999, 26, 206-211.	0.8	78
51	Comparison of carbon, nitrogen and water budgets on Venus and the Earth. <i>Earth and Planetary Science Letters</i> , 2000, 181, 33-40.	4.4	78
52	X-ray microanalysis of high-pressure/high-temperature phases synthesized from natural olivine in a diamond-anvil cell. <i>Earth and Planetary Science Letters</i> , 1988, 90, 52-64.	4.4	76
53	TEM study of a silicate-carbonate-microbe interface prepared by focused ion beam milling. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1413-1422.	3.9	75
54	Comparison of the raman microprobe spectra of (Mg, Fe) <sub>2</sub> SiO <sub>4</sub> and Mg <sub>2</sub> GeO <sub>4</sub> with olivine and spinel structures. <i>Physics and Chemistry of Minerals</i> , 1986, 13, 91-95.	0.8	74

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55	Microstructures and iron partitioning in (Mg,Fe)SiO <sub>3</sub> perovskite-(Mg,Fe)O magnesiowüstite assemblages: An analytical transmission electron microscopy study. Journal of Geophysical Research, 1997, 102, 5265-5280.	3.3	72
56	Enhanced Olivine Carbonation within a Basalt as Compared to Single-Phase Experiments: Reevaluating the Potential of CO <sub>2</sub> Mineral Sequestration. Environmental Science & Technology, 2014, 48, 5512-5519.	10.0	70
57	Structural changes in liquid Fe at high pressures and high temperatures from Synchrotron X-ray Diffraction. Europhysics Letters, 2000, 52, 151-157.	2.0	69
58	Development of non-pyrogenic magnetosome minerals coated with poly-l-lysine leading to full disappearance of intracranial U87-Luc glioblastoma in 100% of treated mice using magnetic hyperthermia. Biomaterials, 2017, 141, 210-222.	11.4	69
59	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
60	Raman spectroscopic properties and Raman identification of CaMgMnFeCr <sub>2</sub> FeS <sub>4</sub> sulfides in meteorites and reduced sulfur-rich systems. Meteoritics and Planetary Science, 2013, 48, 1415-1426.	1.6	68
61	First-principles calculation of the infrared spectrum of lizardite. American Mineralogist, 2002, 87, 1286-1290.	1.9	66
62	Lizardite serpentine dissolution kinetics as a function of pH and temperature, including effects of elevated pCO <sub>2</sub> . Chemical Geology, 2013, 351, 245-256.	3.3	66
63	Ex situ mineral carbonation for CO <sub>2</sub> mitigation: Evaluation of mining waste resources, aqueous carbonation processability and life cycle assessment (Carmex project). Minerals Engineering, 2014, 59, 52-63.	4.3	66
64	Description of new shock-induced phases in the Shergotty, Zagami, Nakhla and Chassigny meteorites. Meteoritics and Planetary Science, 2001, 36, 1297-1305.	1.6	65
65	Physical properties of liquid Fe alloys at high pressure and their bearings on the nature of metallic planetary cores. Journal of Geophysical Research, 2002, 107, ECV 4-1-ECV 4-9.	3.3	65
66	Formation of CO <sub>2</sub> , H <sub>2</sub> and condensed carbon from siderite dissolution in the 200–300°C range and at 50MPa. Geochimica Et Cosmochimica Acta, 2015, 154, 201-211.	3.9	65
67	Solving Controversies on the Iron Phase Diagram Under High Pressure. Geophysical Research Letters, 2018, 45, 11,074.	4.0	65
68	High-temperature heat capacity and phase transitions of CaTiO <sub>3</sub> perovskite. Physics and Chemistry of Minerals, 1993, 20, 141.	0.8	64
69	Experimental approach of CO <sub>2</sub> biomineralization in deep saline aquifers. Chemical Geology, 2009, 265, 54-62.	3.3	64
70	Biomineralized $\frac{1}{2}$ -Fe <sub>2</sub> O <sub>3</sub> : texture and electrochemical reaction with Li. Energy and Environmental Science, 2014, 7, 451-460.	30.8	62
71	Exopolysaccharides protect Synechocystis against the deleterious effects of Titanium dioxide nanoparticles in natural and artificial waters. Journal of Colloid and Interface Science, 2013, 405, 35-43.	9.4	61
72	The melting curve of iron at extreme pressures: Implications for planetary cores. High Energy Density Physics, 2011, 7, 141-144.	1.5	59

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73	Electron microscopy of high-pressure phases synthesized from natural olivine in diamond anvil cell. <i>Physics and Chemistry of Minerals</i> , 1989, 16, 320.	0.8	58
74	Comprehensive analysis of direct aqueous mineral carbonation using dissolution enhancing organic additives. <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 334-346.	4.6	57
75	Interaction between <i>Escherichia coli</i> and TiO <sub>2</sub> nanoparticles in natural and artificial waters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 158-164.	5.0	57
76	One-step electric-field driven methane and formaldehyde synthesis from liquid methanol. <i>Chemical Science</i> , 2017, 8, 2329-2336.	7.4	56
77	High-temperature properties of geikielite (MgTiO <sub>3</sub> -ilmenite) from high-temperature high-pressure Raman spectroscopy ? Some implications for MgSiO <sub>3</sub> -ilmenite. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 441.	0.8	55
78	Quasi-harmonic computations of thermodynamic parameters of olivines at high-pressure and high-temperature. A comparison with experiment data. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 98, 17-29.	1.9	55
79	A thermodynamic model for MgSiO <sub>3</sub> -perovskite derived from pressure, temperature and volume dependence of the Raman mode frequencies. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 117, 361-384.	1.9	55
80	Formation of single domain magnetite by green rust oxidation promoted by microbial anaerobic nitrate-dependent iron oxidation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 327-343.	3.9	55
81	Absolute equation of state measurements of iron using laser driven shocks. <i>Physics of Plasmas</i> , 2002, 9, 2466-2469.	1.9	54
82	Progress in warm dense matter study with applications to planetology. <i>Physica Scripta</i> , 2014, T161, 014060.	2.5	54
83	Magnetotactic bacteria as a new model for P sequestration in the ferruginous Lake Pavin. <i>Geochemical Perspectives Letters</i> , 0, , 35-41.	5.0	54
84	Experimental study and TEM characterization of dusty olivines in chondrites: Evidence for formation by in situ reduction. <i>Meteoritics and Planetary Science</i> , 2003, 38, 81-94.	1.6	53
85	Mass-dependent and -independent signature of Fe isotopes in magnetotactic bacteria. <i>Science</i> , 2016, 352, 705-708.	12.6	53
86	pH-dependent control of feldspar dissolution rate by altered surface layers. <i>Chemical Geology</i> , 2016, 442, 148-159.	3.3	53
87	TEM-EELS study of natural ferrihydrite from geological-biological interactions in hydrothermal systems. <i>Earth and Planetary Science Letters</i> , 2004, 222, 947-957.	4.4	52
88	CO <sub>2</sub> geological storage: The environmental mineralogy perspective. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 246-259.	1.2	52
89	Preservation of Archaeal Surface Layer Structure During Mineralization. <i>Scientific Reports</i> , 2016, 6, 26152.	3.3	52
90	Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. <i>ISME Journal</i> , 2021, 15, 1-18.	9.8	52

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91	Pressure-induced structural modifications and amorphization in olivine compounds. <i>Chemical Geology</i> , 1992, 96, 411-420.	3.3	51
92	X-ray absorption spectroscopy of iron at multimegabar pressures in laser shock experiments. <i>Physical Review B</i> , 2015, 92, .	3.2	51
93	Bacteria in the Tatahouine meteorite: nanometric-scale life in rocks. <i>Earth and Planetary Science Letters</i> , 2000, 175, 161-167.	4.4	50
94	Chains of magnetosomes with controlled endotoxin release and partial tumor occupation induce full destruction of intracranial U87-Luc glioma in mice under the application of an alternating magnetic field. <i>Journal of Controlled Release</i> , 2017, 262, 259-272.	9.9	50
95	Effects of Mg-Fe (super 2+) substitution in calcite-structure carbonates; thermoelastic properties. <i>American Mineralogist</i> , 1998, 83, 280-287.	1.9	49
96	Transmission electron microscopy study of magnetites in a freshwater population of magnetotactic bacteria. <i>American Mineralogist</i> , 2007, 92, 621-630.	1.9	49
97	Chemical signature of magnetotactic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1699-1703.	7.1	49
98	Dissolution kinetics of diopside as a function of solution saturation state: Macroscopic measurements and implications for modeling of geological storage of CO <sub>2</sub> . <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2615-2633.	3.9	48
99	Decaying shock studies of phase transitions in MgO-SiO <sub>2</sub> systems: Implications for the super-Earths' interiors. <i>Geophysical Research Letters</i> , 2016, 43, 9475-9483.	4.0	48
100	Shock recovery experiments on dolomite and thermodynamical calculations of impact induced decarbonation. <i>Journal of Geophysical Research</i> , 1995, 100, 15465-15476.	3.3	47
101	X-ray diffraction study of magnesite at high pressure and high temperature. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 122-130.	0.8	47
102	The deleterious effect of secondary phases on olivine carbonation yield: Insight from time-resolved aqueous-fluid sampling and FIB-TEM characterization. <i>Chemical Geology</i> , 2013, 357, 186-202.	3.3	47
103	Hot pressing and characterization of polycrystals of Mg <sub>2</sub> SiO <sub>4</sub> , for acoustic velocity measurements. <i>Geophysical Research Letters</i> , 1990, 17, 1331-1334.	4.0	46
104	Biocompatible coated magnetosome minerals with various organization and cellular interaction properties induce cytotoxicity towards RG-2 and GL-261 glioma cells in the presence of an alternating magnetic field. <i>Journal of Nanobiotechnology</i> , 2017, 15, 74.	9.1	46
105	P-V-T measurements of iron suicide (μ-FeSi) Implications for silicate-metal interactions in the early Earth. <i>European Journal of Mineralogy</i> , 1997, 9, 277-286.	1.3	46
106	An olivine to beta phase transformation mechanism Mg <sub>2</sub> SiO <sub>4</sub> . <i>Geophysical Research Letters</i> , 1991, 18, 89-92.	4.0	45
107	Synchrotron-based speciation of chromium in an Oxisol from New Caledonia: Importance of secondary Fe-oxyhydroxides. <i>American Mineralogist</i> , 2009, 94, 710-719.	1.9	45
108	The Breakdown of Olivine to Perovskite and Magnesio-wustite. <i>Science</i> , 1997, 275, 510-513.	12.6	43

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109	Application of inelastic X-ray scattering to the measurements of acoustic wave velocities in geophysical materials at very high pressure. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 5-18.	1.9	43
110	Equation of state of Al-bearing perovskite to lower mantle pressure conditions. <i>Geophysical Research Letters</i> , 2001, 28, 3789-3792.	4.0	41
111	Mineralogical and isotopic properties of inorganic nanocrystalline magnetites. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4395-4403.	3.9	41
112	Si in the core? New high-pressure and high-temperature experimental data. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4201-4211.	3.9	41
113	Fayalite (Fe <sub>2</sub> SiO <sub>4</sub> ) dissolution kinetics determined by X-ray absorption spectroscopy. <i>Chemical Geology</i> , 2010, 275, 161-175.	3.3	40
114	Calcium-Phosphate Biomineralization Induced by Alkaline Phosphatase Activity in <i>Escherichia coli</i> : Localization, Kinetics, and Potential Signatures in the Fossil Record. <i>Frontiers in Earth Science</i> , 0, 3, .	1.8	40
115	Development of an attrition-leaching hybrid process for direct aqueous mineral carbonation. <i>Chemical Engineering Journal</i> , 2015, 262, 716-726.	12.7	40
116	Mechanisms of Pyrite Formation Promoted by Sulfate-Reducing Bacteria in Pure Culture. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	40
117	Rapid pyritization in the presence of a sulfur/sulfate-reducing bacterial consortium. <i>Scientific Reports</i> , 2020, 10, 8264.	3.3	40
118	Microscopic anharmonicity and equation of state of MgSiO <sub>3</sub> -perovskite. <i>Geophysical Research Letters</i> , 1996, 23, 3043-3046.	4.0	39
119	The influence on Fe content on Raman spectra and unit cell parameters of magnesite "siderite solid solutions. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 239-246.	0.8	39
120	Strong electric fields at a prototypical oxide/water interface probed by ab initio molecular dynamics: MgO(001). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20382-20390.	2.8	39
121	Biomineralization of tellurium and selenium-tellurium nanoparticles by the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 258-266.	3.9	39
122	Carbon isotope fractionation during calcium carbonate precipitation induced by ureolytic bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 107-124.	3.9	37
123	Natural H <sub>2</sub> in K <sub>2</sub> ansas: Deep or shallow origin?. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1841-1865.	2.5	37
124	Experimental study of the bcc-fcc phase transformations in the Fe-rich system Fe-Si at high pressures. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 419-424.	0.8	36
125	Bioalteration of synthetic Fe(III)-, Fe(II)-bearing basaltic glasses and Fe-free glass in the presence of the heterotrophic bacteria strain <i>Pseudomonas aeruginosa</i> : Impact of siderophores. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 147-162.	3.9	36
126	Biocompatible and stable magnetosome minerals coated with poly-L-lysine, citric acid, oleic acid, and carboxy-methyl-dextran for application in the magnetic hyperthermia treatment of tumors. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7644-7660.	5.8	36



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127	Anharmonic properties of Mg <sub>2</sub> SiO <sub>4</sub> -forsterite measured from the volume dependence of the Raman spectrum. <i>European Journal of Mineralogy</i> , 1997, 9, 255-262.	1.3	36
128	Eutectoid phase transformation of olivine and spinel into perovskite and rock salt structures. <i>Nature</i> , 1986, 321, 603-605.	27.8	35
129	Microbial diversity on the Tatahouine meteorite. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1249-1265.	1.6	35
130	A Method for Producing Highly Pure Magnetosomes in Large Quantity for Medical Applications Using <i>Magnetospirillum gryphiswaldense</i> MSR-1 Magnetotactic Bacteria Amplified in Minimal Growth Media. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 16.	4.1	35
131	Multiple Ionic-Plasmon Resonances in Naturally Occurring Multiwall Nanotubes: Infrared Spectra of Chrysotile Asbestos. <i>Physical Review Letters</i> , 2002, 89, 177401.	7.8	34
132	Experimental Colonization and Alteration of Orthopyroxene by the Pleomorphic Bacteria <i>Ramlibacter tataouinensis</i> . <i>Geomicrobiology Journal</i> , 2004, 21, 341-349.	2.0	34
133	Metallization of Warm Dense $\text{SiO}_2$ by XANES Spectroscopy. <i>Physical Review Letters</i> , 2014, 113, 116404.	7.8	34
134	XAS Study of Arsenic Coordination in <i>Euglena gracilis</i> Exposed to Arsenite. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5342-5347.	10.0	33
135	Sulfur vesicles from Thermococcales: A possible role in sulfur detoxifying mechanisms. <i>Biochimie</i> , 2015, 118, 356-364.	2.6	33
136	Dynamic X-ray diffraction observation of shocked solid iron up to 170 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7745-7749.	7.1	33
137	Key Role of Alphaproteobacteria and Cyanobacteria in the Formation of Stromatolites of Lake Dziani Dzaha (Mayotte, Western Indian Ocean). <i>Frontiers in Microbiology</i> , 2018, 9, 796.	3.5	33
138	Morphology of nanomagnetite crystals: Implications for formation conditions. <i>American Mineralogist</i> , 2005, 90, 1793-1800.	1.9	32
139	High-temperature Raman spectroscopic and X-ray diffraction study of beta -Mg <sub>2</sub> SiO <sub>4</sub> ; insights into its high-temperature thermodynamic properties and the beta - to alpha -phase-transition mechanism and kinetics. <i>American Mineralogist</i> , 1996, 81, 585-594.	1.9	31
140	Metal-silicate interaction in quenched shock-induced melt of the Tenham L6-chondrite. <i>Earth and Planetary Science Letters</i> , 2000, 179, 477-487.	4.4	31
141	An X-ray absorption study of the dissolution of siderite at 300 bar between 50°C and 100°C. <i>Chemical Geology</i> , 2009, 259, 8-16.	3.3	30
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