

# 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	Theoretical Considerations on the Characteristic Timescales of Hydrogen Generation by Serpentinization Reactions on Enceladus. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
2	Towards a dynamic compression facility at the ESRF. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 167-179.	2.4	6
3	Precipitation of greigite and pyrite induced by Thermococcales: an advantage to live in Fe and rich environments?. <i>Environmental Microbiology</i> , 2022, 24, 626-642.	3.8	3
4	Defining Local Chemical Conditions in Magnetosomes of Magnetotactic Bacteria. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2677-2687.	2.6	2
5	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
6	Aqueous alteration and bioalteration of a synthetic enstatite chondrite. <i>Meteoritics and Planetary Science</i> , 2021, 56, 601-618.	1.6	0
7	Bayesian analysis of Enceladus's plume data to assess methanogenesis. <i>Nature Astronomy</i> , 2021, 5, 805-814.	10.1	29
8	A carbonaceous chondrite and cometary origin for icy moons of Jupiter and Saturn. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115920.	4.4	25
9	Mechanisms of Pyrite Formation Promoted by Sulfate-Reducing Bacteria in Pure Culture. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	40
10	Direct Observation of Shock-Induced Disorder of Enstatite Below the Melting Temperature. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088887.	4.0	9
11	Symbiotic cooperation between freshwater rock-boring bivalves and microorganisms promotes silicate bioerosion. <i>Scientific Reports</i> , 2020, 10, 13385.	3.3	5
12	Melting properties by X-ray absorption spectroscopy: common signatures in binary Fe-C, Fe-O, Fe-S and Fe-Si systems. <i>Scientific Reports</i> , 2020, 10, 11663.	3.3	13
13	Engineering <i>E. coli</i> for Magnetic Control and the Spatial Localization of Functions. <i>ACS Synthetic Biology</i> , 2020, 9, 3030-3041.	3.8	20
14	Microbially Induced Mineralization of Layered Mn Oxides Electroactive in Li Batteries. <i>Frontiers in Microbiology</i> , 2020, 11, 2031.	3.5	6
15	Rapid pyritization in the presence of a sulfur/sulfate-reducing bacterial consortium. <i>Scientific Reports</i> , 2020, 10, 8264.	3.3	40
16	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
17	In situ monitoring of exopolymer-dependent Mn mineralization on bacterial surfaces. <i>Science Advances</i> , 2020, 6, eaaz3125.	10.3	14
18	Early Diagenesis of Lacustrine Carbonates in Volcanic Settings: The Role of Magmatic CO <sub>2</sub> (Lake Dziani Dzaha, Mayotte, Indian Ocean). <i>ACS Earth and Space Chemistry</i> , 2020, 4, 363-378.	2.7	18

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19	Formic Acid Synthesis in a Water-Mineral System: Major Role of the Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5125-5131.	3.1	11
20	The Dissolution Anisotropy of Pyroxenes: Experimental Validation of a Stochastic Dissolution Model Based on Enstatite Dissolution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3122-3140.	3.1	10
21	Formation of magnesium-smectite during lacustrine carbonates early diagenesis: Study case of the volcanic crater lake Dziani Dzaha (Mayotte - Indian Ocean). <i>Sedimentology</i> , 2019, 66, 983-1001.	3.1	20
22	X-ray absorption near edge spectroscopy study of warm dense MgO. <i>Physics of Plasmas</i> , 2019, 26, 112703.	1.9	3
23	Ferrous Iron Under Oxygen-Rich Conditions in the Deep Mantle. <i>Geophysical Research Letters</i> , 2019, 46, 1348-1356.	4.0	22
24	Direct and indirect impact of the bacterial strain <i>Pseudomonas aeruginosa</i> on the dissolution of synthetic Fe(III)- and Fe(II)-bearing basaltic glasses. <i>Chemical Geology</i> , 2019, 523, 9-18.	3.3	14
25	Physical properties of MgO at deep planetary conditions. <i>Physical Review B</i> , 2019, 99, .	3.2	19
26	The fate of planetary cores in giant and ice-giant planets. <i>Astronomy and Astrophysics</i> , 2019, 631, L4.	5.1	10
27	Biodegraded magnetosomes with reduced size and heating power maintain a persistent activity against intracranial U87-Luc mouse GBM tumors. <i>Journal of Nanobiotechnology</i> , 2019, 17, 126.	9.1	17
28	Experimental assessment of occurrences and stability of lead-bearing minerals in bacterial biofilms. <i>Chemical Geology</i> , 2019, 505, 23-35.	3.3	9
29	Biocompatible Coated Magnetosome Minerals for Application in the Magnetic Hyperthermia Treatment of Tumors. <i>Biophysical Journal</i> , 2018, 114, 361a.	0.5	0
30	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
31	Iron uptake and magnetite biomineralization in the magnetotactic bacterium <i>Magnetospirillum magneticum</i> strain AMB-1: An iron isotope study. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 225-243.	3.9	29
32	A Fluorescent Nanoprobe for the Detection of in Situ Temperature Changes during Hyperthermia Treatment of Tumors. <i>Biophysical Journal</i> , 2018, 114, 361a.	0.5	1
33	CO <sub>2</sub> -induced destabilization of pyrite-structured FeO <sub>2</sub> H <sub>x</sub> in the lower mantle. <i>National Science Review</i> , 2018, 5, 870-877.	9.5	15
34	Early stages of bacterial community adaptation to silicate aging. <i>Geology</i> , 2018, 46, 555-558.	4.4	15
35	Solving Controversies on the Iron Phase Diagram Under High Pressure. <i>Geophysical Research Letters</i> , 2018, 45, 11,074.	4.0	65
36	Magnetic-field induced rotation of magnetosome chains in silicified magnetotactic bacteria. <i>Scientific Reports</i> , 2018, 8, 7699.	3.3	19

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37	Fluorescent magnetosomes for controlled and repetitive drug release under the application of an alternating magnetic field under conditions of limited temperature increase (<math>2.5 \text{ }^\circ\text{C}</math>). <i>Nanoscale</i> , 2018, 10, 10918-10933.	5.6	24
38	Mineralizations and transition metal mobility driven by organic carbon during low-temperature serpentinization. <i>Lithos</i> , 2018, 323, 262-276.	1.4	9
39	Greigite nanocrystals produced by hyperthermophilic archaea of Thermococcales order. <i>PLoS ONE</i> , 2018, 13, e0201549.	2.5	19
40	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
41	Time-dependent feldspar dissolution rates resulting from surface passivation: Experimental evidence and geochemical implications. <i>Earth and Planetary Science Letters</i> , 2018, 498, 226-236.	4.4	30
42	Synthesis of RNA Nucleotides in Plausible Prebiotic Conditions from ab Initio Computer Simulations. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4981-4987.	4.6	22
43	Dynamics of altered surface layer formation on dissolving silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 209, 51-69.	3.9	27
44	Hydrogen production by hydrothermal oxidation of FeO under acidic conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 795-806.	7.1	21
45	One-step electric-field driven methane and formaldehyde synthesis from liquid methanol. <i>Chemical Science</i> , 2017, 8, 2329-2336.	7.4	56
46	Slab-derived metasomatism in the Carpathian-Pannonian mantle revealed by investigations of mantle xenoliths from the Bakony-Balaton Highland Volcanic Field. <i>Lithos</i> , 2017, 286-287, 534-552.	1.4	8
47	Biomining 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
48	Natural $\text{H}_2$ in <i>K</i> -basalts: Deep or shallow origin?. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1841-1865.	2.5	37
49	Highly $\text{CO}_2$ -supersaturated melts in the Pannonian lithospheric mantle – A transient carbon reservoir?. <i>Lithos</i> , 2017, 286-287, 519-533.	1.4	26
50	Nanoprobe Synthesized by Magnetotactic Bacteria, Detecting Fluorescence Variations under Dissociation of Rhodamine B from Magnetosomes following Temperature, pH Changes, or the Application of Radiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36561-36572.	8.0	15
51	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
52	Programmed Self-Assembly of a Biochemical and Magnetic Scaffold to Trigger and Manipulate Microtubule Structures. <i>Scientific Reports</i> , 2017, 7, 11344.	3.3	11
53	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
54	Novel electrochemical route to cleaner fuel dimethyl ether. <i>Scientific Reports</i> , 2017, 7, 6901.	3.3	22

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55	Experimental maturation of Archaea encrusted by Fe-phosphates. <i>Scientific Reports</i> , 2017, 7, 16984.	3.3	15
56	Measurement of iron characteristics under ramp compression. <i>Chinese Physics B</i> , 2017, 26, 115205.	1.4	4
57	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. <i>Biomaterials</i> , 2017, 141, 210-222.	11.4	69
58	Disequilibrium $\delta^{18}O$ values in microbial carbonates as a tracer of metabolic production of dissolved inorganic carbon. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 112-129.	3.9	14
59	Enhanced antitumor efficacy of biocompatible magnetosomes for the magnetic hyperthermia treatment of glioblastoma. <i>Theranostics</i> , 2017, 7, 4618-4631.	10.0	93
60	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
61	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
62	Contribution of siderite-water interaction for the unconventional generation of hydrocarbon gases in the Solimões basin, north-west Brazil. <i>Marine and Petroleum Geology</i> , 2016, 71, 168-182.	3.3	21
63	Mass-dependent and -independent signature of Fe isotopes in magnetotactic bacteria. <i>Science</i> , 2016, 352, 705-708.	12.6	53
64	pH-dependent control of feldspar dissolution rate by altered surface layers. <i>Chemical Geology</i> , 2016, 442, 148-159.	3.3	53
65	Evaluation on chemical stability of lead blast furnace (LBF) and imperial smelting furnace (ISF) slags. <i>Journal of Environmental Management</i> , 2016, 180, 310-323.	7.8	27
66	Iron Phosphate/Bacteria Composites as Precursors for Textured Electrode Materials with Enhanced Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2139-A2148.	2.9	13
67	Decaying shock studies of phase transitions in $MgO\text{-}SiO_2$ systems: Implications for the super-Earths' interiors. <i>Geophysical Research Letters</i> , 2016, 43, 9475-9483.	4.0	48
68	High-pressure structural changes in liquid silica. <i>Physical Review E</i> , 2016, 94, 031201.	2.1	16
69	Kinetics of the iron transition at high-strain rates: Experiment and model. <i>Physical Review B</i> , 2016, 93, .		
70	Preservation of Archaeal Surface Layer Structure During Mineralization. <i>Scientific Reports</i> , 2016, 6, 26152.	3.3	52
71	Thermodynamic constraints on the formation of condensed carbon from serpentization fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 391-403.	3.9	28
72	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

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73	Melting and metallization of silica in the cores of gas giants, ice giants, and super Earths. <i>Physical Review B</i> , 2015, 92, .	3.2	18
74	X-ray absorption spectroscopy of iron at multimegabar pressures in laser shock experiments. <i>Physical Review B</i> , 2015, 92, .	3.2	51
75	Mineralogical evolution of Fe-Si-rich layers at the olivine-water interface during carbonation reactions. <i>American Mineralogist</i> , 2015, 100, 2655-2669.	1.9	30
76	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
77	Reply to Bada and Cleaves: Ab initio free-energy landscape of Miller-like prebiotic reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E343-4.	7.1	6
78	Probing iron at Super-Earth core conditions. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	9
79	Impact of iron chelators on short-term dissolution of basaltic glass. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 83-98.	3.9	20
80	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
81	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. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 154, 201-211.	3.9	65
82	Sulfur vesicles from Thermococcales: A possible role in sulfur detoxifying mechanisms. <i>Biochimie</i> , 2015, 118, 356-364.	2.6	33
83	Development of an attrition-leaching hybrid process for direct aqueous mineral carbonation. <i>Chemical Engineering Journal</i> , 2015, 262, 716-726.	12.7	40
84	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
85	Ab initio calculation of x-ray absorption of iron up to 3 Mbar and 8000 K. <i>Physical Review B</i> , 2014, 89, .	3.2	13
86	Ex situ mineral carbonation for CO <sub>2</sub> mitigation: Evaluation of mining waste resources, aqueous carbonation processability and life cycle assessment (Carmex project). <i>Minerals Engineering</i> , 2014, 59, 52-63.	4.3	66
87	Correlating biological methods to assess Escherichia coli bacteria viability in silica gels. <i>Analytical Methods</i> , 2014, 6, 2429.	2.7	8
88	Effect of cyanobacteria Synechococcus PCC 7942 on carbonation kinetics of olivine at 20°C. <i>Minerals Engineering</i> , 2014, 59, 2-11.	4.3	24
89	Biom mineralized Fe <sub>2</sub> O <sub>3</sub> : texture and electrochemical reaction with Li. <i>Energy and Environmental Science</i> , 2014, 7, 451-460.	30.8	62
90	Metallization of Warm Dense SiO <sub>2</sub> by XANES Spectroscopy. <i>Physical Review Letters</i> , 2014, 113, 116404.	7.8	54

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91	Characterization of laser-driven ultrafast shockless compression using gold targets. Journal of Applied Physics, 2014, 116, 043521.	2.5	0
92	Progress in warm dense matter study with applications to planetology. Physica Scripta, 2014, T161, 014060.	2.5	54
93	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
94	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
95	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
96	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
97	The Earth's core composition from high pressure density measurements of liquid iron alloys. Earth and Planetary Science Letters, 2013, 373, 169-178.	4.4	99
98	Influence of exopolysaccharides on the electrophoretic properties of the model cyanobacterium Synechocystis. Colloids and Surfaces B: Biointerfaces, 2013, 110, 171-177.	5.0	9
99	Use of bacterial magnetosomes in the magnetic hyperthermia treatment of tumours: A review. International Journal of Hyperthermia, 2013, 29, 801-809.	2.5	89
100	The deleterious effect of secondary phases on olivine carbonation yield: Insight from time-resolved aqueous-fluid sampling and FIB-TEM characterization. Chemical Geology, 2013, 357, 186-202.	3.3	47
101	Multidisciplinary Evidences that Synechocystis PCC6803 Exopolysaccharides Operate in Cell Sedimentation and Protection against Salt and Metal Stresses. PLoS ONE, 2013, 8, e55564.	2.5	133
102	<i>Ab initio</i> equation of state of iron up to 1500 GPa. Physical Review B, 2013, 87, .	3.2	84
103	Direct laser-driven ramp compression studies of iron: A first step toward the reproduction of planetary core conditions. High Energy Density Physics, 2013, 9, 243-246.	1.5	21
104	Interaction between Escherichia coli and TiO <sub>2</sub> nanoparticles in natural and artificial waters. Colloids and Surfaces B: Biointerfaces, 2013, 102, 158-164.	5.0	57
105	Carbon isotope fractionation during calcium carbonate precipitation induced by urease-catalysed hydrolysis of urea. Chemical Geology, 2012, 330-331, 39-50.	3.3	13
106	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
107	Comprehensive analysis of direct aqueous mineral carbonation using dissolution enhancing organic additives. International Journal of Greenhouse Gas Control, 2012, 9, 334-346.	4.6	57
108	Carbon isotope fractionation during calcium carbonate precipitation induced by ureolytic bacteria. Geochimica Et Cosmochimica Acta, 2012, 98, 107-124.	3.9	37

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109	The effect of iron-chelating agents on <i>Magnetospirillum magneticum</i> strain AMB-1: stimulated growth and magnetosome production and improved magnetosome heating properties. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 663-670.	3.6	27
110	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
111	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
112	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
113	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
114	In-situ monitoring of the formation of carbon compounds during the dissolution of iron(II) carbonate (siderite). <i>Chemical Geology</i> , 2011, 290, 145-155.	3.3	22
115	CO <sub>2</sub> geological storage: The environmental mineralogy perspective. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 246-259.	1.2	52
116	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
117	Understanding the chemistry of direct aqueous carbonation with additives through geochemical modelling. <i>Energy Procedia</i> , 2011, 4, 3809-3816.	1.8	4
118	The melting curve of iron at extreme pressures: Implications for planetary cores. <i>High Energy Density Physics</i> , 2011, 7, 141-144.	1.5	59
119	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
120	In situ high-pressure and high-temperature X-ray microtomographic imaging during large deformation: A new technique for studying mechanical behavior of multiphase composites. , 2011, 7, 40-53.		25
121	Simulating earth core using high energy lasers. <i>High Energy Density Physics</i> , 2010, 6, 210-214.	1.5	7
122	High-power laser shock-induced dynamic fragmentation of iron foils. <i>Physical Review B</i> , 2010, 82, .	3.2	14
123	Mineral and Bacterial Diversities of Desert Sand Grains from South-East Morocco. <i>Geomicrobiology Journal</i> , 2010, 27, 76-92.	2.0	27
124	The chemical composition of the Earth: Enstatite chondrite models. <i>Earth and Planetary Science Letters</i> , 2010, 293, 259-268.	4.4	363
125	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
126	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



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127	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
128	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
129	Mechanism of wollastonite carbonation deduced from micro- to nanometer length scale observations. <i>American Mineralogist</i> , 2009, 94, 1707-1726.	1.9	117
130	Extracellular Iron Biomineralization by Photoautotrophic Iron-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5586-5591.	3.1	152
131	Transformation of vivianite by anaerobic nitrate-reducing iron-oxidizing bacteria. <i>Geobiology</i> , 2009, 7, 373-384.	2.4	133
132	Speciation of Arsenic in <i>Euglena gracilis</i> Cells Exposed to As(V). <i>Environmental Science &amp; Technology</i> , 2009, 43, 3315-3321.	10.0	27
133	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
134	An X-ray absorption study of the dissolution of siderite at 300 Åbar between 50 Å°C and 100 Å°C. <i>Chemical Geology</i> , 2009, 259, 8-16.	3.3	30
135	Experimental approach of CO <sub>2</sub> biomineralization in deep saline aquifers. <i>Chemical Geology</i> , 2009, 265, 54-62.	3.3	64
136	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
137	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
138	Iron biomineralization by anaerobic neutrophilic iron-oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 696-711.	3.9	255
139	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
140	Crystal ball " 2009. <i>Environmental Microbiology Reports</i> , 2009, 1, 3-26.	2.4	5
141	<i>Archaeoglobus fulgidus</i> and <i>Thermotoga elfii</i> , Thermophilic Isolates from Deep Geothermal Water of the Paris Basin. <i>Geomicrobiology Journal</i> , 2009, 26, 119-130.	2.0	23
142	STUDY OF IRON UNDER HIGH PRESSURE CONDITIONS USING ISENTROPIC COMPRESSION. , 2009, , .		2
143	MICROSTRUCTURAL INVESTIGATION OF LASER-SHOCKED IRON FOILS. , 2009, , .		0
144	DYNAMIC FRAGMENTATION AS A POSSIBLE DIAGNOSTIC FOR HIGH PRESSURE MELTING IN LASER SHOCK-LOADED IRON. , 2009, , .		2

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145	The Earth's Lower Mantle and Core. <i>Elements</i> , 2008, 4, 177-182.	0.5	19
146	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
147	Extended X-ray Absorption Fine Structure Analysis of Arsenite and Arsenate Adsorption on Maghemite. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2361-2366.	10.0	107
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