

Isabelle Martinez

List of Publications by Year in descending order

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31
papers

1,855
citations

257450

24
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

1931
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of amorphous silica layer formation on the dissolution rate of olivine at 90Â°C and elevated pCO ₂ . <i>Chemical Geology</i> , 2011, 284, 193-209.	3.3	251
2	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
3	Graphite formation by carbonate reduction during subduction. <i>Nature Geoscience</i> , 2013, 6, 473-477.	12.9	155
4	Mechanism of wollastonite carbonation deduced from micro- to nanometer length scale observations. <i>American Mineralogist</i> , 2009, 94, 1707-1726.	1.9	117
5	Massive production of abiotic methane during subduction evidenced in metamorphosed ophicarbonates from the Italian Alps. <i>Nature Communications</i> , 2017, 8, 14134.	12.8	106
6	Carbonation by fluid-rock interactions at high-pressure conditions: Implications for carbon cycling in subduction zones. <i>Earth and Planetary Science Letters</i> , 2016, 445, 146-159.	4.4	80
7	Enhanced Olivine Carbonation within a Basalt as Compared to Single-Phase Experiments: Reevaluating the Potential of CO ₂ Mineral Sequestration. <i>Environmental Science & Technology</i> , 2014, 48, 5512-5519.	10.0	70
8	Lizardite serpentine dissolution kinetics as a function of pH and temperature, including effects of elevated pCO ₂ . <i>Chemical Geology</i> , 2013, 351, 245-256.	3.3	66
9	Description of new shock-induced phases in the Shergotty, Zagami, Nakhla and Chassigny meteorites. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1297-1305.	1.6	65
10	CO ₂ geological storage: The environmental mineralogy perspective. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 246-259.	1.2	52
11	High-pressure and high-temperature Raman spectroscopy of carbonate ions in aqueous solution. <i>Chemical Geology</i> , 2004, 207, 47-58.	3.3	51
12	Dissolution kinetics of diopside as a function of solution saturation state: Macroscopic measurements and implications for modeling of geological storage of CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2615-2633.	3.9	48
13	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
14	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
15	A SEM-ATEM and stable isotope study of carbonates from the Haughton impact crater, Canada. <i>Earth and Planetary Science Letters</i> , 1994, 121, 559-574.	4.4	46
16	P-V-T measurements of iron suicide (Îµ-FeSi) Implications for silicate-metal interactions in the early Earth. <i>European Journal of Mineralogy</i> , 1997, 9, 277-286.	1.3	46
17	Dissolution of strontianite at high-P-T conditions: An in-situ synchrotron X-ray fluorescence study. <i>American Mineralogist</i> , 2003, 88, 978-985.	1.9	45
18	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

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19	Fayalite (Fe ₂ SiO ₄) dissolution kinetics determined by X-ray absorption spectroscopy. <i>Chemical Geology</i> , 2010, 275, 161-175.	3.3	40
20	CO ₂ geological storage in olivine rich basaltic aquifers: New insights from reactive-percolation experiments. <i>Applied Geochemistry</i> , 2015, 52, 174-190.	3.0	39
21	Metasomatism and graphite formation at a lithological interface in Malaspina (Alpine Corsica, France). <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1687-1708.	3.1	33
22	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
23	Zinc-iron sulphide mineralization in tubes of hydrothermal vent worms. <i>European Journal of Mineralogy</i> , 2001, 13, 653-658.	1.3	28
24	Mineralogical gradients associated with alvinellids at deep-sea hydrothermal vents. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 269-280.	1.4	28
25	Simultaneous ex-situ CO ₂ mineral sequestration and hydrogen production from olivine-bearing mine tailings. <i>Applied Geochemistry</i> , 2018, 95, 195-205.	3.0	23
26	The behaviour of sulphur in metal-silicate core segregation experiments under reducing conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 433-443.	1.9	22
27	Impact-induced phase transformations at 50-60 GPa in continental crust: an EPMA and ATEM study. <i>Earth and Planetary Science Letters</i> , 1993, 119, 207-223.	4.4	20
28	Intra-slab CO ₂ fluid fluxes evidenced by fluid-mediated decarbonation of lawsonite eclogite-facies altered oceanic metabasalts. <i>Lithos</i> , 2018, 304-307, 211-229.	1.4	16
29	Control of CO ₂ on flow and reaction paths in olivine-dominated basements: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 252, 16-38.	3.9	9
30	Progress in quantitative elemental analyses in high-T fluids using synchrotron x-ray fluorescence (SXRf). <i>Journal of Physics Condensed Matter</i> , 2004, 16, S1197-S1206.	1.8	8
31	Les cratères d'impacts: principaux effets de choc dans les roches et minéraux. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1998, 327, 75-86.	0.2	1