

# John V Walther

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

2,763  
citations

361413

20  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controls on silicate dissolution rates in neutral and basic pH solutions at 25Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2823-2830.	3.9	403
2	Volatile production and transport in regional metamorphism. <i>Contributions To Mineralogy and Petrology</i> , 1982, 79, 252-257.	3.1	318
3	Kinetics of quartz dissolution at low temperatures. <i>Chemical Geology</i> , 1990, 82, 253-264.	3.3	299
4	A surface complex reaction model for the pH-dependence of corundum and kaolinite dissolution rates. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2609-2623.	3.9	298
5	Olivine dissolution at 25Å°C: Effects of pH, CO <sub>2</sub> , and organic acids. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 943-954.	3.9	271
6	Rate and mechanism in prograde metamorphism. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 246-259.	3.1	213
7	Olivine dissolution kinetics at near-surface conditions. <i>Chemical Geology</i> , 1992, 97, 101-112.	3.3	202
8	Quartz solubilities in NaCl solutions with and without wollastonite at elevated temperatures and pressures. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 1947-1955.	3.9	91
9	Calcite solubility in supercritical CO <sub>2</sub> -H <sub>2</sub> O fluids. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1665-1673.	3.9	82
10	Dissolution kinetics of silica glass as a function of pH between 40 and 85Å°C. <i>Journal of Non-Crystalline Solids</i> , 1994, 170, 32-45.	3.1	71
11	Incongruent dissolution and surface area of kaolinite. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 3357-3363.	3.9	68
12	Dissolution stoichiometry and adsorption of alkali and alkaline earth elements to the acid-reacted wollastonite surface at 25Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2587-2598.	3.9	66
13	The dielectric constant approach to speciation and ion pairing at high temperature and pressure. <i>Nature</i> , 1988, 332, 635-638.	27.8	52
14	Experimental determination of the solubility of the assemblage paragonite, albite, and quartz in supercritical H <sub>2</sub> O. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 365-372.	3.9	51
15	Calcite solubility and speciation in supercritical NaCl-HCl aqueous fluids. <i>Contributions To Mineralogy and Petrology</i> , 1989, 103, 317-324.	3.1	50
16	Experimental determination and interpretation of the solubility of corundum in H <sub>2</sub> O between 350 and 600Å°C from 0.5 to 2.2 kbar. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4955-4964.	3.9	48
17	Experimental determination of portlandite and brucite solubilities in supercritical H <sub>2</sub> O. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 733-739.	3.9	42
18	Experimental determination and analysis of the solubility of corundum in 0.1 and 0.5 m NaCl solutions between 400 and 600Å°C from 0.5 to 2.0 kbar. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2843-2851.	3.9	37

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19	Pressure sensitive $\alpha$ -silica geothermometer determined from quartz solubility experiments at 250 $\text{Å}^\circ\text{C}$ . <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 941-946.	3.9	34
20	Acid-base chemistry of albite surfaces in aqueous solutions at standard temperature and pressure. <i>Chemical Geology</i> , 2001, 174, 415-443.	3.3	28
21	Determination of activity coefficients of neutral species in supercritical $\text{H}_2\text{O}$ solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3311-3318.	3.9	21
22	Far from equilibrium enstatite dissolution rates in alkaline solutions at earth surface conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7486-7493.	3.9	10
23	Experimental determination and analysis of the solubility of corundum in 0.1-molal $\text{CaCl}_2$ solutions between 400 and 600 $\text{Å}^\circ\text{C}$ at 0.6 to 2.0 kbar. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1621-1626.	3.9	8