

# Patrick V Brady

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11984581/publications.pdf>

Version: 2024-02-01

51  
papers

4,166  
citations

109321

35  
h-index

214800

47  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controls on silicate dissolution rates in neutral and basic pH solutions at 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2823-2830.	3.9	403
2	Kinetics of quartz dissolution at low temperatures. <i>Chemical Geology</i> , 1990, 82, 253-264.	3.3	299
3	Molecular Controls on Kaolinite Surface Charge. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 356-364.	9.4	273
4	Direct effects of CO <sub>2</sub> and temperature on silicate weathering: Possible implications for climate control. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1853-1856.	3.9	212
5	The effect of silicate weathering on global temperature and atmospheric CO <sub>2</sub> . <i>Journal of Geophysical Research</i> , 1991, 96, 18101-18106.	3.3	181
6	Electrostatics and the Low Salinity Effect in Sandstone Reservoirs. <i>Energy &amp; Fuels</i> , 2015, 29, 666-677.	5.1	161
7	A surface complexation model of oil-brine-sandstone interfaces at 100°C: Low salinity waterflooding. <i>Journal of Petroleum Science and Engineering</i> , 2012, 81, 171-176.	4.2	158
8	Seafloor weathering controls on atmospheric CO <sub>2</sub> and global climate. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 965-973.	3.9	157
9	Critical conditions for ferric chloride-induced flocculation of freshwater algae. <i>Biotechnology and Bioengineering</i> , 2012, 109, 493-501.	3.3	146
10	Functional Wettability in Carbonate Reservoirs. <i>Energy &amp; Fuels</i> , 2016, 30, 9217-9225.	5.1	145
11	KINETICS OF LEAD ADSORPTION/DESORPTION ON GOETHITE: RESIDENCE TIME EFFECT. <i>Soil Science</i> , 1999, 164, 28-39.	0.9	143
12	Experimental study of the effect of pH on the kinetics of montmorillonite dissolution at 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4224-4253.	3.9	139
13	Oil/water/rock wettability: Influencing factors and implications for low salinity water flooding in carbonate reservoirs. <i>Fuel</i> , 2018, 215, 171-177.	6.4	124
14	Surface complexation clues to dolomite growth. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 727-731.	3.9	98
15	Direct measurement of the combined effects of lichen, rainfall, and temperature on silicate weathering. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3293-3300.	3.9	97
16	Review of low salinity waterflooding in carbonate rocks: mechanisms, investigation techniques, and future directions. <i>Advances in Colloid and Interface Science</i> , 2020, 284, 102253.	14.7	95
17	Surface Complexation Modeling for Improved Oil Recovery. , 2012, , .		91
18	The low salinity effect at high temperatures. <i>Fuel</i> , 2017, 200, 419-426.	6.4	84

#	ARTICLE	IF	CITATIONS
19	Silica surface chemistry at elevated temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2941-2946.	3.9	82
20	Experimental study of the effect of pH and temperature on the kinetics of montmorillonite dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3752-3766.	3.9	80
21	pH effect on wettability of oil/brine/carbonate system: Implications for low salinity water flooding. <i>Journal of Petroleum Science and Engineering</i> , 2018, 168, 419-425.	4.2	68
22	Effect of Al and Organic Acids on the Surface Chemistry of Kaolinite. <i>Clays and Clay Minerals</i> , 1998, 46, 453-465.	1.3	60
23	Surface chemistry of K-montmorillonite: Ionic strength, temperature dependence and dissolution kinetics. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 474-484.	9.4	58
24	Effect of divalent cations in formation water on wettability alteration during low salinity water flooding in sandstone reservoirs: Oil recovery analyses, surface reactivity tests, contact angle, and spontaneous imbibition experiments. <i>Journal of Molecular Liquids</i> , 2019, 275, 163-172.	4.9	56
25	Fines migration during CO <sub>2</sub> injection: Experimental results interpreted using surface forces. <i>International Journal of Greenhouse Gas Control</i> , 2017, 65, 32-39.	4.6	52
26	A coordination chemistry model of algal autoflocculation. <i>Algal Research</i> , 2014, 5, 226-230.	4.6	49
27	Electrostatic Origins of CO <sub>2</sub> -Increased Hydrophilicity in Carbonate Reservoirs. <i>Scientific Reports</i> , 2018, 8, 17691.	3.3	49
28	The effect of organic acids on wettability of sandstone and carbonate rocks. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 428-435.	4.2	47
29	Elucidating the differences in the carbon mineralization behaviors of calcium and magnesium bearing aluminosilicates and magnesium silicates for CO <sub>2</sub> storage. <i>Fuel</i> , 2020, 277, 117900.	6.4	47
30	Metal sorption to dolomite surfaces. <i>Applied Geochemistry</i> , 1999, 14, 569-579.	3.0	46
31	Alumina surface chemistry at 25, 40, and 60 Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1213-1217.	3.9	45
32	Surface Complexation Modeling for Waterflooding of Sandstones. <i>SPE Journal</i> , 2013, 18, 214-218.	3.1	40
33	KINETICS OF NI(II) SORPTION AND DESORPTION ON KAOLINITE: RESIDENCE TIME EFFECTS. <i>Soil Science</i> , 2001, 166, 11-17.	0.9	38
34	Electrokinetics at calcite-rich limestone surface: Understanding the role of ions in modified salinity waterflooding. <i>Journal of Molecular Liquids</i> , 2020, 297, 111868.	4.9	38
35	Rock-based measurement of temperature-dependent plagioclase weathering. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2847-2852.	3.9	36
36	Altering wettability to recover more oil from tight formations. <i>Journal of Unconventional Oil and Gas Resources</i> , 2016, 15, 79-83.	3.5	36

#	ARTICLE	IF	CITATIONS
37	Desorption Kinetics of Cadmium <sup>2+</sup> and Lead <sup>2+</sup> from Goethite. Soil Science Society of America Journal, 2002, 66, 797-804.	2.2	34
38	Insights into the role of clays in low salinity water flooding in sand columns. Journal of Petroleum Science and Engineering, 2019, 174, 291-305.	4.2	33
39	Surface Reactivity Analysis of the Crude Oil-Brine-Limestone Interface for a Comprehensive Understanding of the Low-Salinity Waterflooding Mechanism. Energy & Fuels, 2020, 34, 2739-2756.	5.1	30
40	Controls on polyacrylamide adsorption to quartz, kaolinite, and feldspar. Geochimica Et Cosmochimica Acta, 1997, 61, 3515-3523.	3.9	29
41	In situ determination of long-term basaltic glass dissolution in the unsaturated zone. Chemical Geology, 2002, 190, 113-122.	3.3	17
42	Sequential injection mode of high-salinity/low-salinity water in sandstone reservoirs: oil recovery and surface reactivity tests. Journal of Petroleum Exploration and Production, 2019, 9, 261-270.	2.4	15
43	Bacterial effects on the mobilization of cations from a weathered Pb-contaminated andesite. Chemical Geology, 1999, 158, 189-202.	3.3	14
44	A Site-Specific Approach for the Evaluation of Natural Attenuation at Metals-Impacted Sites. Soil and Sediment Contamination, 2003, 12, 541-564.	1.9	11
45	Coupling of Low-Salinity Water Flooding and Steam Flooding for Sandstone Unconventional Oil Reservoirs. Natural Resources Research, 2019, 28, 213-221.	4.7	11
46	Molecular Models of Cesium Sorption on Kaolinite. , 1998, , 383-399.		10
47	Surface Charge and Metal Sorption to Kaolinite. , 1998, , 371-382.		7
48	Feldspar dissolution rates in the Topopah Spring Tuff, Yucca Mountain, Nevada. Applied Geochemistry, 2009, 24, 2133-2143.	3.0	7
49	Harvesting of Microalgae by Means of Flocculation. Biofuel and Biorefinery Technologies, 2015, , 251-273.	0.3	7
50	Impact of temperature and SO <sub>4</sub> <sup>2-</sup> on electrostatic controls over carbonate wettability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126893.	4.7	7
51	Future Expectations. , 2019, , 683-719.		0