Patrick V Brady

List of Publications by Year
in descending order

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	Impact of temperature and SO42- on electrostatic controls over carbonate wettability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126893.	4.7	7
2	Electrokinetics at calcite-rich limestone surface: Understanding the role of ions in modified salinity waterflooding. Journal of Molecular Liquids, 2020, 297, 111868.	4.9	38
3	Review of low salinity waterflooding in carbonate rocks: mechanisms, investigation techniques, and future directions. Advances in Colloid and Interface Science, 2020, 284, 102253.	14.7	95
4	Elucidating the differences in the carbon mineralization behaviors of calcium and magnesium bearing alumino-silicates and magnesium silicates for CO2 storage. Fuel, 2020, 277, 117900.	6.4	47
5	Surface Reactivity Analysis of the Crude Oilâ€“Brineâ€“Limestone Interface for a Comprehensive Understanding of the Low-Salinity Waterflooding Mechanism. Energy & Fuels, 2020, 34, 2739-2756.	5.1	30
6	Future Expectations. , 2019, , 683-719.		0
7	Coupling of Low-Salinity Water Flooding and Steam Flooding for Sandstone Unconventional Oil Reservoirs. Natural Resources Research, 2019, 28, 213-221.	4.7	11
8	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. Journal of Molecular Liquids, 2019, 275, 163-172.	4.9	56
9	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
10	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
11	The effect of organic acids on wettability of sandstone and carbonate rocks. Journal of Petroleum Science and Engineering, 2018, 165, 428-435.	4.2	47
12	Oil/water/rock wettability: Influencing factors and implications for low salinity water flooding in carbonate reservoirs. Fuel, 2018, 215, 171-177.	6.4	124
13	Electrostatic Origins of CO2-Increased Hydrophilicity in Carbonate Reservoirs. Scientific Reports, 2018, 8, 17691.	3.3	49
14	pH effect on wettability of oil/brine/carbonate system: Implications for low salinity water flooding. Journal of Petroleum Science and Engineering, 2018, 168, 419-425.	4.2	68
15	The low salinity effect at high temperatures. Fuel, 2017, 200, 419-426.	6.4	84
16	Fines migration during CO2 injection: Experimental results interpreted using surface forces. International Journal of Greenhouse Gas Control, 2017, 65, 32-39.	4.6	52
17	Altering wettability to recover more oil from tight formations. Journal of Unconventional Oil and Gas Resources, 2016, 15, 79-83.	3.5	36
18	Functional Wettability in Carbonate Reservoirs. Energy & Fuels, 2016, 30, 9217-9225.	5.1	145

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19	Harvesting of Microalgae by Means of Flocculation. Biofuel and Biorefinery Technologies, 2015, , 251-273.	0.3	7
20	Electrostatics and the Low Salinity Effect in Sandstone Reservoirs. Energy & Fuels, 2015, 29, 666-677.	5.1	161
21	A coordination chemistry model of algal autoflocculation. Algal Research, 2014, 5, 226-230.	4.6	49
22	Surface Complexation Modeling for Waterflooding of Sandstones. SPE Journal, 2013, 18, 214-218.	3.1	40
23	Surface Complexation Modeling for Improved Oil Recovery. , 2012, , .		91
24	A surface complexation model of oilâ€“brineâ€“sandstone interfaces at 100Â°C: Low salinity waterflooding. Journal of Petroleum Science and Engineering, 2012, 81, 171-176.	4.2	158
25	Critical conditions for ferric chlorideâ€induced flocculation of freshwater algae. Biotechnology and Bioengineering, 2012, 109, 493-501.	3.3	146
26	Surface chemistry of K-montmorillonite: Ionic strength, temperature dependence and dissolution kinetics. Journal of Colloid and Interface Science, 2009, 333, 474-484.	9.4	58
27	Experimental study of the effect of pH and temperature on the kinetics of montmorillonite dissolution. Geochimica Et Cosmochimica Acta, 2009, 73, 3752-3766.	3.9	80
28	Feldspar dissolution rates in the Topopah Spring Tuff, Yucca Mountain, Nevada. Applied Geochemistry, 2009, 24, 2133-2143.	3.0	7
29	Experimental study of the effect of pH on the kinetics of montmorillonite dissolution at 25Â°C. Geochimica Et Cosmochimica Acta, 2008, 72, 4224-4253.	3.9	139
30	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
31	In situ determination of long-term basaltic glass dissolution in the unsaturated zone. Chemical Geology, 2002, 190, 113-122.	3.3	17
32	Desorption Kinetics of Cadmium²⁺ and Lead²⁺ from Goethite. Soil Science Society of America Journal, 2002, 66, 797-804.	2.2	34
33	KINETICS OF NI(II) SORPTION AND DESORPTION ON KAOLINITE: RESIDENCE TIME EFFECTS. Soil Science, 2001, 166, 11-17.	0.9	38
34	Metal sorption to dolomite surfaces. Applied Geochemistry, 1999, 14, 569-579.	3.0	46
35	Bacterial effects on the mobilization of cations from a weathered Pb-contaminated andesite. Chemical Geology, 1999, 158, 189-202.	3.3	14
36	Direct measurement of the combined effects of lichen, rainfall, and temperature onsilicate weathering. Geochimica Et Cosmochimica Acta, 1999, 63, 3293-3300.	3.9	97

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37	KINETICS OF LEAD ADSORPTION/DESORPTION ON GOETHITE: RESIDENCE TIME EFFECT. Soil Science, 1999, 164, 28-39.	0.9	143
38	Surface Charge and Metal Sorption to Kaolinite. , 1998, , 371-382.		7
39	Molecular Models of Cesium Sorption on Kaolinite. , 1998, , 383-399.		10
40	Effect of Al and Organic Acids on the Surface Chemistry of Kaolinite. Clays and Clay Minerals, 1998, 46, 453-465.	1.3	60
41	Seafloor weathering controls on atmospheric CO2 and global climate. Geochimica Et Cosmochimica Acta, 1997, 61, 965-973.	3.9	157
42	Controls on polyacrylamide adsorption to quartz, kaolinite, and feldspar. Geochimica Et Cosmochimica Acta, 1997, 61, 3515-3523.	3.9	29
43	Surface complexation clues to dolomite growth. Geochimica Et Cosmochimica Acta, 1996, 60, 727-731.	3.9	98
44	Molecular Controls on Kaolinite Surface Charge. Journal of Colloid and Interface Science, 1996, 183, 356-364.	9.4	273
45	Rock-based measurement of temperature-dependent plagioclase weathering. Geochimica Et Cosmochimica Acta, 1995, 59, 2847-2852.	3.9	36
46	Direct effects of CO2 and temperature on silicate weathering: Possible implications for climate control. Geochimica Et Cosmochimica Acta, 1994, 58, 1853-1856.	3.9	212
47	Alumina surface chemistry at 25, 40, and 60 Â°C. Geochimica Et Cosmochimica Acta, 1994, 58, 1213-1217.	3.9	45
48	Silica surface chemistry at elevated temperatures. Geochimica Et Cosmochimica Acta, 1992, 56, 2941-2946.	3.9	82
49	The effect of silicate weathering on global temperature and atmospheric CO₂. Journal of Geophysical Research, 1991, 96, 18101-18106.	3.3	181
50	Kinetics of quartz dissolution at low temperatures. Chemical Geology, 1990, 82, 253-264.	3.3	299
51	Controls on silicate dissolution rates in neutral and basic pH solutions at 25Â°C. Geochimica Et Cosmochimica Acta, 1989, 53, 2823-2830.	3.9	403