Andrew J Frierdich

List of Publications by Year
in descending order

28	1,298	430874 18	501196 28
papers	citations	h-index	g-index

30	30	30	1150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fe(II)-Catalyzed Recrystallization of Goethite Revisited. Environmental Science & Technology, 2014, 48, 11302-11311.	10.0	160
2	Controls on Fe(II)-Activated Trace Element Release from Goethite and Hematite. Environmental Science & Technology, 2012, 46, 1519-1526.	10.0	101
3	Iron Atom Exchange between Hematite and Aqueous Fe(II). Environmental Science & Technology, 2015, 49, 8479-8486.	10.0	99
4	Trace element cycling through iron oxide minerals during redox-driven dynamic recrystallization. Geology, 2011, 39, 1083-1086.	4.4	97
5	Determination of the Fe(II)aqâ€“magnetite equilibrium iron isotope fractionation factor using the three-isotope method and a multi-direction approach to equilibrium. Earth and Planetary Science Letters, 2014, 391, 77-86.	4.4	91
6	Iron isotope fractionation between aqueous Fe(II) and goethite revisited: New insights based on a multi-direction approach to equilibrium and isotopic exchange rate modification. Geochimica Et Cosmochimica Acta, 2014, 139, 383-398.	3.9	84
7	Composition and structure of nanocrystalline Fe and Mn oxide cave deposits: Implications for trace element mobility in karst systems. Chemical Geology, 2011, 284, 82-96.	3.3	78
8	Fe(II)-Mediated Reduction and Repartitioning of Structurally Incorporated Cu, Co, and Mn in Iron Oxides. Environmental Science & Technology, 2012, 46, 11070-11077.	10.0	63
9	Inhibition of Trace Element Release During Fe(II)-Activated Recrystallization of Al-, Cr-, and Sn-Substituted Goethite and Hematite. Environmental Science & Technology, 2012, 46, 10031-10039.	10.0	61
10	Distribution and speciation of trace elements in iron and manganese oxide cave deposits. Geochimica Et Cosmochimica Acta, 2012, 91, 240-253.	3.9	57
11	Rapid Reduction of N-Nitrosamine Disinfection Byproducts in Water with Hydrogen and Porous Nickel Catalysts. Environmental Science & Technology, 2008, 42, 262-269.	10.0	51
12	The effect of pH on stable iron isotope exchange and fractionation between aqueous Fe(II) and goethite. Chemical Geology, 2015, 397, 118-127.	3.3	48
13	Atom Exchange between Aqueous Fe(II) and Structural Fe in Clay Minerals. Environmental Science & Technology, 2015, 49, 2786-2795.	10.0	46
14	Catalytic reduction of N-nitrosodimethylamine with nanophase nickelâ€“boron. Applied Catalysis B: Environmental, 2009, 90, 175-183.	20.2	35
15	Iron isotope exchange and fractionation between hematite (Î±-Fe2O3) and aqueous Fe(II): A combined three-isotope and reversal-approach to equilibrium study. Geochimica Et Cosmochimica Acta, 2019, 245, 207-221.	3.9	31
16	Oxygen Isotope Evidence for Mn(II)-Catalyzed Recrystallization of Manganite (Î³-MnOOH). Environmental Science & Technology, 2016, 50, 6374-6380.	10.0	29
17	Changes in Crystallinity and Tracer-Isotope Distribution of Goethite during Fe(II)-Accelerated Recrystallization. ACS Earth and Space Chemistry, 2018, 2, 1271-1282.	2.7	28
18	Low temperature, non-stoichiometric oxygen-isotope exchange coupled to Fe(II)â€“goethite interactions. Geochimica Et Cosmochimica Acta, 2015, 160, 38-54.	3.9	27

#	Article	IF	Citations
19	Recrystallization of Manganite (Î³-MnOOH) and Implications for Trace Element Cycling. Environmental Science & Technology, 2018, 52, 1311-1319.	10.0	19
20	Direct Observation of Nanoparticulate Goethite Recrystallization by Atom Probe Analysis of Isotopic Tracers. Environmental Science & Technology, 2019, 53, 13126-13135.	10.0	19
21	Trace element catalyses mineral replacement reactions and facilitates ore formation. Nature Communications, 2021, 12, 1388.	12.8	19
22	Impact of Zn substitution on Fe(II)-induced ferrihydrite transformation pathways. Geochimica Et Cosmochimica Acta, 2022, 320, 143-160.	3.9	15
23	Nickel Cycling and Negative Feedback on Fe(II)-Catalyzed Recrystallization of Goethite. ACS Earth and Space Chemistry, 2019, 3, 1932-1941.	2.7	12
24	Iron isotope geochemistry and mineralogy of jarosite in sulfur-rich sediments. Geochimica Et Cosmochimica Acta, 2020, 270, 282-295.	3.9	9
25	Synchronous solid-state diffusion, dissolution-reprecipitation, and recrystallization leading to isotopic resetting: insights from chalcopyrite replacement by copper sulfides. Geochimica Et Cosmochimica Acta, 2022, 331, 48-68.	3.9	8
26	Nickel exchange between aqueous Ni(II) and deep-sea ferromanganese nodules and crusts. Chemical Geology, 2019, 528, 119276.	3.3	7
27	Natural nanoparticles of the critical element tellurium. Journal of Hazardous Materials Letters, 2022, 3, 100053.	3.6	2
28	Iron isotope exchange and fractionation between jarosite and aqueous Fe(II). Chemical Geology, 2020, 554, 119802.	3.3	1