

# Andrew J Frierdich

## List of Publications by Year in descending order

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28  
papers

1,298  
citations

430874

18  
h-index

501196

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30  
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30  
docs citations

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times ranked

1150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Zn substitution on Fe(II)-induced ferrihydrite transformation pathways. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 320, 143-160.	3.9	15
2	Natural nanoparticles of the critical element tellurium. <i>Journal of Hazardous Materials Letters</i> , 2022, 3, 100053.	3.6	2
3	Synchronous solid-state diffusion, dissolution-reprecipitation, and recrystallization leading to isotopic resetting: insights from chalcopyrite replacement by copper sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 331, 48-68.	3.9	8
4	Trace element catalyses mineral replacement reactions and facilitates ore formation. <i>Nature Communications</i> , 2021, 12, 1388.	12.8	19
5	Iron isotope geochemistry and mineralogy of jarosite in sulfur-rich sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 282-295.	3.9	9
6	Iron isotope exchange and fractionation between jarosite and aqueous Fe(II). <i>Chemical Geology</i> , 2020, 554, 119802.	3.3	1
7	Nickel exchange between aqueous Ni(II) and deep-sea ferromanganese nodules and crusts. <i>Chemical Geology</i> , 2019, 528, 119276.	3.3	7
8	Direct Observation of Nanoparticulate Goethite Recrystallization by Atom Probe Analysis of Isotopic Tracers. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13126-13135.	10.0	19
9	Nickel Cycling and Negative Feedback on Fe(II)-Catalyzed Recrystallization of Goethite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1932-1941.	2.7	12
10	Iron isotope exchange and fractionation between hematite ( $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> ) and aqueous Fe(II): A combined three-isotope and reversal-approach to equilibrium study. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 207-221.	3.9	31
11	Recrystallization of Manganite ( $\hat{\pm}$ -MnOOH) and Implications for Trace Element Cycling. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1311-1319.	10.0	19
12	Changes in Crystallinity and Tracer-Isotope Distribution of Goethite during Fe(II)-Accelerated Recrystallization. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1271-1282.	2.7	28
13	Oxygen Isotope Evidence for Mn(II)-Catalyzed Recrystallization of Manganite ( $\hat{\pm}$ -MnOOH). <i>Environmental Science &amp; Technology</i> , 2016, 50, 6374-6380.	10.0	29
14	The effect of pH on stable iron isotope exchange and fractionation between aqueous Fe(II) and goethite. <i>Chemical Geology</i> , 2015, 397, 118-127.	3.3	48
15	Atom Exchange between Aqueous Fe(II) and Structural Fe in Clay Minerals. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2786-2795.	10.0	46
16	Iron Atom Exchange between Hematite and Aqueous Fe(II). <i>Environmental Science &amp; Technology</i> , 2015, 49, 8479-8486.	10.0	99
17	Low temperature, non-stoichiometric oxygen-isotope exchange coupled to Fe(II)-goethite interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 160, 38-54.	3.9	27
18	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. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 383-398.	3.9	84

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19	Determination of the Fe(II)-mediated magnetite equilibrium iron isotope fractionation factor using the three-isotope method and a multi-direction approach to equilibrium. <i>Earth and Planetary Science Letters</i> , 2014, 391, 77-86.	4.4	91
20	Fe(II)-Catalyzed Recrystallization of Goethite Revisited. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11302-11311.	10.0	160
21	Inhibition of Trace Element Release During Fe(II)-Activated Recrystallization of Al-, Cr-, and Sn-Substituted Goethite and Hematite. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10031-10039.	10.0	61
22	Distribution and speciation of trace elements in iron and manganese oxide cave deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 240-253.	3.9	57
23	Fe(II)-Mediated Reduction and Repartitioning of Structurally Incorporated Cu, Co, and Mn in Iron Oxides. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11070-11077.	10.0	63
24	Controls on Fe(II)-Activated Trace Element Release from Goethite and Hematite. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1519-1526.	10.0	101
25	Composition and structure of nanocrystalline Fe and Mn oxide cave deposits: Implications for trace element mobility in karst systems. <i>Chemical Geology</i> , 2011, 284, 82-96.	3.3	78
26	Trace element cycling through iron oxide minerals during redox-driven dynamic recrystallization. <i>Geology</i> , 2011, 39, 1083-1086.	4.4	97
27	Catalytic reduction of N-nitrosodimethylamine with nanophase nickel-boron. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 175-183.	20.2	35
28	Rapid Reduction of N-Nitrosamine Disinfection Byproducts in Water with Hydrogen and Porous Nickel Catalysts. <i>Environmental Science &amp; Technology</i> , 2008, 42, 262-269.	10.0	51