

Peter J Swedlund

List of Publications by Year in descending order

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36
papers

1,836
citations

471509

17
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

2173
citing authors

#	ARTICLE	IF	CITATIONS
1	The physicochemical properties of spray-dried watermelon powders. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 386-392.	3.6	560
2	Trace Metal Adsorption onto an Acid Mine Drainage Iron(III) Oxy Hydroxy Sulfate. <i>Environmental Science & Technology</i> , 1998, 32, 1361-1368.	10.0	296
3	Goethite adsorption of Cu(II), Pb(II), Cd(II), and Zn(II) in the presence of sulfate: Properties of the ternary complex. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1548-1562.	3.9	126
4	The effect of SO ₄ on the ferrihydrite adsorption of Co, Pb and Cd: ternary complexes and site heterogeneity. <i>Applied Geochemistry</i> , 2003, 18, 1671-1689.	3.0	74
5	An attenuated total reflectance IR study of silicic acid adsorbed onto a ferric oxyhydroxide surface. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4199-4214.	3.9	74
6	Silicic Acid Adsorption and Oligomerization at the Ferrihydrite-Water Interface: Interpretation of ATR-IR Spectra Based on a Model Surface Structure. <i>Langmuir</i> , 2010, 26, 3394-3401.	3.5	71
7	Physical and rheological properties of fish gelatin gel as influenced by Î²-carrageenan. <i>Food Bioscience</i> , 2017, 20, 88-95.	4.4	68
8	Degradation of Chlorinated Phenols by Zero Valent Iron and Bimetals of Iron: A Review. <i>Environmental Engineering Research</i> , 2011, 16, 187-203.	2.5	57
9	Effect of high hydrostatic pressure on the supramolecular structure of corn starch with different amylose contents. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 604-614.	7.5	52
10	Assessing the role of silicate polymerization on metal oxyhydroxide surfaces using X-ray photoelectron spectroscopy. <i>Chemical Geology</i> , 2011, 285, 62-69.	3.3	46
11	Copper(II) and Cadmium(II) Sorption onto Ferrihydrite in the Presence of Phthalic Acid: Some Properties of the Ternary Complex. <i>Environmental Science & Technology</i> , 2008, 42, 4008-4013.	10.0	40
12	Demystifying the interfacial aquatic geochemistry of thallium(I): New and old data reveal just a regular cation. <i>Chemical Geology</i> , 2015, 398, 97-103.	3.3	38
13	Cadmium(II) Speciation in Complex Aquatic Systems: A Study with Ferrihydrite, Bacteria, and an Organic Ligand. <i>Environmental Science & Technology</i> , 2009, 43, 7430-7436.	10.0	37
14	Insights into H ₄ SiO ₄ surface chemistry on ferrihydrite suspensions from ATR-IR, Diffuse Layer Modeling and the adsorption enhancing effects of carbonate. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 149-157.	9.4	33
15	Ionic Strength Effects on Silicic Acid (H ₄ SiO ₄) Sorption and Oligomerization on an Iron Oxide Surface: An Interesting Interplay between Electrostatic and Chemical Forces. <i>Langmuir</i> , 2011, 27, 12930-12937.	3.5	33
16	Arsenate-Ferrihydrite Systems from Minutes to Months: A Macroscopic and IR Spectroscopic Study of an Elusive Equilibrium. <i>Environmental Science & Technology</i> , 2014, 48, 2759-2765.	10.0	31
17	Experimental and theoretical investigations into the counter-intuitive shift in the antisymmetric Î½(Si-O) vibrational modes upon deuteration of solvated silicic acid (H ₄ SiO ₄). <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2314-2322.	2.8	27
18	Fabrication of Spray-Dried Microcapsules Containing Noni Juice Using Blends of Maltodextrin and Gum Acacia: Physicochemical Properties of Powders and Bioaccessibility of Bioactives during In Vitro Digestion. <i>Foods</i> , 2020, 9, 1316.	4.3	20

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19	Depositing alginate on the surface of bilayer emulsions. <i>Food Hydrocolloids</i> , 2020, 100, 105385.	10.7	18
20	Cu(II) removal by <i>Anoxybacillus flavithermus</i> iron oxide composites during the addition of Fe(II)aq. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 139-158.	3.9	17
21	The Influence of Surface Structure on H ₄ SiO ₄ Oligomerization on Rutile and Amorphous TiO ₂ Surfaces: An ATR-IR and Synchrotron XPS Study. <i>Langmuir</i> , 2012, 28, 16890-16899.	3.5	16
22	Short range order at the amorphous TiO ₂ -water interface probed by silicic acid adsorption and interfacial oligomerization: An ATR-IR and ²⁹ Si MAS-NMR study. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 447-455.	9.4	16
23	The influence of surface structure on H ₄ SiO ₄ sorption and oligomerization on goethite surfaces: An XPS study using goethites differing in morphology. <i>Chemical Geology</i> , 2013, 347, 114-122.	3.3	16
24	Calcium Phosphates in Ca ²⁺ -Fortified Milk: Phase Identification and Quantification by Raman Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 12223-12228.	5.2	14
25	Retrogradation of Maize Starch after High Hydrostatic Pressure Gelation: Effect of Amylose Content and Depressurization Rate. <i>PLoS ONE</i> , 2016, 11, e0156061.	2.5	12
26	Pentachlorophenol dechlorination with zero-valent iron: a Raman and GCMS study of the complex role of surficial iron oxides. <i>Environmental Science and Pollution Research</i> , 2018, 25, 17797-17806.	5.3	10
27	The Application of Raman Spectroscopy to Probe the Association of H ₄ SiO ₄ with Iron Oxides. <i>Aquatic Geochemistry</i> , 2017, 23, 21-31.	1.3	8
28	Cadmium (II) distribution in complex aquatic systems containing ferrihydrite, bacteria and an organic ligand: The effect of bioactivity. <i>Applied Geochemistry</i> , 2011, 26, 898-906.	3.0	6
29	Bacterial exudate effects on Cu ²⁺ sorption by cells: Quantifying significant ternary interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 268-278.	3.9	6
30	Effect of O ₂ , NiO coatings, and iron oxide phases on pentachlorophenol dechlorination by zero-valent iron. <i>Environmental Science and Pollution Research</i> , 2019, 26, 27687-27698.	5.3	4
31	H ₄ SiO ₄ sorption and polymerization at the magnetite - aqueous interface: The influence of interfacial redox state. <i>Applied Geochemistry</i> , 2019, 104, 146-157.	3.0	4
32	A spectroscopic and Monte Carlo study of the unexpected promotion of interfacial H ₄ SiO ₄ polymerization on an iron oxide in the presence of arsenate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 486, 69-77.	4.7	3
33	Quantifying arsenate partitioning in aquatic systems: Narrowing the laboratory-real world gap with kinetic sediment extractions and the Diffuse Layer Model. <i>Applied Geochemistry</i> , 2015, 58, 38-45.	3.0	1
34	From swollen gels to dried films: Relating the IR spectra of ferrihydrite dried as a film on an ATRIR crystal to aqueous suspensions. <i>Applied Geochemistry</i> , 2018, 91, 89-96.	3.0	1
35	An Experiment to Visualize and Probe the Relationship between Polysaccharide Structure and a Glycemic Index Proxy. <i>Journal of Chemical Education</i> , 2021, 98, 553-558.	2.3	1
36	Mid-infrared Spectroscopy as a Probe for Caramelization in Dispersed Systems. <i>Food Analytical Methods</i> , 2019, 12, 2121-2128.	2.6	0