

Kathryn L Nagy

List of Publications by Year in descending order

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56
papers

4,408
citations

87888

38
h-index

149698

56
g-index

56
all docs

56
docs citations

56
times ranked

4769
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical weathering rate laws and global geochemical cycles. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2361-2386.	3.9	630
2	Molecular Controls on Kaolinite Surface Charge. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 356-364.	9.4	273
3	Formation of Metallic Copper Nanoparticles at the Soil-Root Interface. <i>Environmental Science & Technology</i> , 2008, 42, 1766-1772.	10.0	221
4	Cation sorption on the muscovite (001) surface in chloride solutions using high-resolution X-ray reflectivity. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3549-3565.	3.9	182
5	Dodecyl sulfate-hydrotalcite nanocomposites for trapping chlorinated organic pollutants in water. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 613-624.	9.4	171
6	Quantitative analysis of sulfur functional groups in natural organic matter by XANES spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 206-223.	3.9	146
7	Dissolution of cinnabar (HgS) in the presence of natural organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1575-1588.	3.9	145
8	Ab initio determination of edge surface structures for dioctahedral 2:1 phyllosilicates: implications for acid-base reactivity. <i>Clays and Clay Minerals</i> , 2003, 51, 359-371.	1.3	135
9	Mercury(II) Sorption to Two Florida Everglades Peats: Evidence for Strong and Weak Binding and Competition by Dissolved Organic Matter Released from the Peat. <i>Environmental Science & Technology</i> , 2002, 36, 4058-4064.	10.0	134
10	Monovalent Ion Adsorption at the Muscovite (001)-Solution Interface: Relationships among Ion Coverage and Speciation, Interfacial Water Structure, and Substrate Relaxation. <i>Langmuir</i> , 2012, 28, 8637-8650.	3.5	128
11	Hydrated Cation Speciation at the Muscovite (001)-Water Interface. <i>Langmuir</i> , 2010, 26, 16647-16651.	3.5	126
12	Structures of quartz (100)- and (101)-water interfaces determined by x-ray reflectivity and atomic force microscopy of natural growth surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3037-3054.	3.9	115
13	The effect of Al(OH) ₄ ⁻ on the dissolution rate of quartz. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 290-305.	3.9	114
14	Formation of Mercury Sulfide from Hg(II)-Thiolate Complexes in Natural Organic Matter. <i>Environmental Science & Technology</i> , 2015, 49, 9787-9796.	10.0	111
15	Nitrate-Cancrinite Precipitation on Quartz Sand in Simulated Hanford Tank Solutions. <i>Environmental Science & Technology</i> , 2001, 35, 4481-4486.	10.0	90
16	All-atom ab initio energy minimization of the kaolinite crystal structure. <i>American Mineralogist</i> , 1997, 82, 657-662.	1.9	82
17	Evidence for the Formation of Trioctahedral Clay upon Sorption of Co ²⁺ on Quartz. <i>Journal of Colloid and Interface Science</i> , 1999, 220, 181-197.	9.4	80
18	Spatial Dependence of Reduced Sulfur in Everglades Dissolved Organic Matter Controlled by Sulfate Enrichment. <i>Environmental Science & Technology</i> , 2017, 51, 3630-3639.	10.0	78

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19	Quantifying surface areas of clays by atomic force microscopy. <i>American Mineralogist</i> , 2002, 87, 780-783.	1.9	74
20	Relationships between Hg(ii)-S bond distance and Hg(ii) coordination in thiolates. <i>Dalton Transactions</i> , 2008, , 1421.	3.3	73
21	Surfactant-Templated Mesoporous Silicate Materials as Sorbents for Organic Pollutants in Water. <i>Environmental Science & Technology</i> , 2000, 34, 4822-4827.	10.0	67
22	Simultaneous precipitation kinetics of kaolinite and gibbsite at 80°C and pH 3. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4329-4335.	3.9	64
23	Real-time observation of cation exchange kinetics and dynamics at the muscovite-water interface. <i>Nature Communications</i> , 2017, 8, 15826.	12.8	61
24	Demethylation of Methylmercury in Bird, Fish, and Earthworm. <i>Environmental Science & Technology</i> , 2021, 55, 1527-1534.	10.0	61
25	Metallothionein-Like Multinuclear Clusters of Mercury(II) and Sulfur in Peat. <i>Environmental Science & Technology</i> , 2011, 45, 7298-7306.	10.0	59
26	Thermodynamics, Interfacial Structure, and pH Hysteresis of Rb ⁺ and Sr ²⁺ Adsorption at the Muscovite (001)-Solution Interface. <i>Langmuir</i> , 2008, 24, 13993-14004.	3.5	58
27	Changes in adsorption free energy and speciation during competitive adsorption between monovalent cations at the muscovite (001)-water interface. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 416-426.	3.9	57
28	Structure, Bonding, and Stability of Mercury Complexes with Thiolate and Thioether Ligands from High-Resolution XANES Spectroscopy and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2015, 54, 11776-11791.	4.0	57
29	Gibbsite growth kinetics on gibbsite, kaolinite, and muscovite substrates: atomic force microscopy evidence for epitaxy and an assessment of reactive surface area. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2337-2351.	3.9	56
30	Influence of Anionic Layer Structure of Fe-Oxyhydroxides on the Structure of Cd Surface Complexes. <i>Journal of Colloid and Interface Science</i> , 2000, 228, 306-316.	9.4	53
31	Distribution of barium and fulvic acid at the mica-solution interface using in-situ X-ray reflectivity. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5763-5781.	3.9	53
32	Chemical Forms of Mercury in Human Hair Reveal Sources of Exposure. <i>Environmental Science & Technology</i> , 2016, 50, 10721-10729.	10.0	53
33	Reaction pathways for quartz dissolution determined by statistical and graphical analysis of macroscopic experimental data. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4521-4536.	3.9	50
34	Mercury transformation and release differs with depth and time in a contaminated riparian soil during simulated flooding. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 118-138.	3.9	50
35	Competitive adsorption of strontium and fulvic acid at the muscovite-solution interface observed with resonant anomalous X-ray reflectivity. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1762-1776.	3.9	47
36	Incorporation of Pb at the Calcite (104)-Water Interface. <i>Environmental Science & Technology</i> , 2014, 48, 9263-9269.	10.0	46

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37	Enhanced Uptake and Modified Distribution of Mercury(II) by Fulvic Acid on the Muscovite (001) Surface. <i>Environmental Science & Technology</i> , 2009, 43, 5295-5300.	10.0	43
38	Perrhenate Uptake by Iron and Aluminum Oxyhydroxides: An Analogue for Pertechnetate Incorporation in Hanford Waste Tank Sludges. <i>Environmental Science & Technology</i> , 2004, 38, 1765-1771.	10.0	40
39	Heavy Metal Sorption at the Muscovite (001)-Fulvic Acid Interface. <i>Environmental Science & Technology</i> , 2011, 45, 9574-9581.	10.0	35
40	Molecular Modeling of the Tributyl Phosphate Complex of Europium Nitrate in the Clay Hectorite. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6722-6729.	2.5	31
41	Transient and quasi-steady-state dissolution of biotite at 22-25°C in high pH, sodium, nitrate, and aluminate solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 399-413.	3.9	30
42	Resonant anomalous X-ray reflectivity as a probe of ion adsorption at solid-liquid interfaces. <i>Thin Solid Films</i> , 2007, 515, 5654-5659.	1.8	30
43	Divalent Mercury in Dissolved Organic Matter Is Bioavailable to Fish and Accumulates as Dithiolate and Tetrathiolate Complexes. <i>Environmental Science & Technology</i> , 2019, 53, 4880-4891.	10.0	30
44	Heteroepitaxial growth of cadmium carbonate at dolomite and calcite surfaces: Mechanisms and rates. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 360-380.	3.9	28
45	Nucleation of mercury sulfide by dealkylation. <i>Scientific Reports</i> , 2016, 6, 39359.	3.3	21
46	Fulvic Acid Sorption on Muscovite Mica as a Function of pH and Time Using In Situ X-ray Reflectivity. <i>Langmuir</i> , 2008, 24, 7817-7829.	3.5	19
47	<i>Thlaspi arvense</i> binds Cu(II) as a bis-(l-histidinato) complex on root cell walls in an urban ecosystem. <i>Metallomics</i> , 2013, 5, 1674.	2.4	17
48	Structural Characterization of Aluminum (Oxy)hydroxide Films at the Muscovite (001)-Water Interface. <i>Langmuir</i> , 2016, 32, 477-486.	3.5	14
49	Effect of pH on the Formation of Gibbsite-Layer Films at the Muscovite (001)-Water Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6560-6571.	3.1	14
50	Quantification of minor phases in growth kinetics experiments with powder X-ray diffraction. <i>American Mineralogist</i> , 2000, 85, 1217-1222.	1.9	11
51	Fish Consumption and Hair Mercury Among Asians in Chicago. <i>Journal of Occupational and Environmental Medicine</i> , 2015, 57, 1325-1330.	1.7	9
52	Comment on "Molecular controls on Cu and Zn isotopic fractionation in Fe-Mn crusts" by Little et al.. <i>Earth and Planetary Science Letters</i> , 2015, 411, 310-312.	4.4	9
53	Thiols in Natural Organic Matter: Molecular Forms, Acidity, and Reactivity with Mercury(II) from First-Principles Calculations and High Energy-Resolution X-ray Absorption Near-Edge Structure Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2795-2807.	2.7	9
54	Acute Toxicity of Divalent Mercury to Bacteria Explained by the Formation of Dicysteinate and Tetracysteinate Complexes Bound to Proteins in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> . <i>Environmental Science & Technology</i> , 2021, 55, 3612-3623.	10.0	9

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55	Evolution of Strain in Heteroepitaxial Cadmium Carbonate Overgrowths on Dolomite. <i>Crystal Growth and Design</i> , 2018, 18, 2871-2882.	3.0	6
56	Dissolution Kinetics of Epitaxial Cadmium Carbonate Overgrowths on Dolomite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 212-220.	2.7	3