Sang Soo Lee

List of Publications by Year
in descending order

49 papers	1,984 citations	218677 26 h-index	243625 44 g-index
50 all docs	50 docs citations	50 times ranked	2265 citing authors

#	Article	IF	Citations
1	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. Environmental Earth Sciences, 2010, 61, 1301-1308.	2.7	178
2	Nanoscale Perturbations of Room Temperature Ionic Liquid Structure at Charged and Uncharged Interfaces. ACS Nano, 2012, 6, 9818-9827.	14.6	151
3	Monovalent Ion Adsorption at the Muscovite (001)â€“Solution Interface: Relationships among Ion Coverage and Speciation, Interfacial Water Structure, and Substrate Relaxation. Langmuir, 2012, 28, 8637-8650.	3.5	128
4	Hydrated Cation Speciation at the Muscovite (001)âˆ'Water Interface. Langmuir, 2010, 26, 16647-16651.	3.5	126
5	Application of eggshell waste for the immobilization of cadmium and lead in a contaminated soil. Environmental Geochemistry and Health, 2011, 33, 31-39.	3.4	119
6	Stern Layer Structure and Energetics at Micaâ€“Water Interfaces. Journal of Physical Chemistry C, 2017, 121, 9402-9412.	3.1	119
7	X-rayâ€“driven reaction front dynamics at calcite-water interfaces. Science, 2015, 349, 1330-1334.	12.6	69
8	Hydration layer structure at solidâ€“water interfaces. MRS Bulletin, 2014, 39, 1056-1061.	3.5	65
9	Real-time observation of cation exchange kinetics and dynamics at the muscovite-water interface. Nature Communications, 2017, 8, 15826.	12.8	61
10	Changes in adsorption free energy and speciation during competitive adsorption between monovalent cations at the muscovite (001)-water interface. Geochimica Et Cosmochimica Acta, 2013, 123, 416-426.	3.9	57
11	X-ray Analyses of Lead Adsorption on the (001), (110), and (012) Hematite Surfaces. Environmental Science & Technology, 2016, 50, 12283-12291.	10.0	55
12	Distribution of barium and fulvic acid at the micaâ€“solution interface using in-situ X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2007, 71, 5763-5781.	3.9	53
13	Heterogeneous Nucleation and Growth of Barium Sulfate at Organicâ€“Water Interfaces: Interplay between Surface Hydrophobicity and Ba²⁺ Adsorption. Langmuir, 2016, 32, 5277-5284.	3.5	53
14	Replacement of Calcite (CaCO₃) by Cerussite (PbCO₃). Environmental Science & Technology, 2016, 50, 12984-12991.	10.0	51
15	Competitive adsorption of strontium and fulvic acid at the muscoviteâ€“solution interface observed with resonant anomalous X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2010, 74, 1762-1776.	3.9	47
16	Enhanced Uptake and Modified Distribution of Mercury(II) by Fulvic Acid on the Muscovite (001) Surface. Environmental Science & Technology, 2009, 43, 5295-5300.	10.0	43
17	Mapping Three-dimensional Dissolution Rates of Calcite Microcrystals: Effects of Surface Curvature and Dissolved Metal Ions. ACS Earth and Space Chemistry, 2019, 3, 833-843.	2.7	40
18	Oxidation induced strain and defects in magnetite crystals. Nature Communications, 2019, 10, 703.	12.8	40

#	Article	IF	Citations
19	Hydration Structure of the Barite (001)â€“Water Interface: Comparison of X-ray Reflectivity with Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2017, 121, 12236-12248.	3.1	38
20	Cathodic Corrosion at the Bismuthâ€“Ionic Liquid Electrolyte Interface under Conditions for CO₂ Reduction. Chemistry of Materials, 2018, 30, 2362-2373.	6.7	38
21	Investigation of Structure, Adsorption Free Energy, and Overcharging Behavior of Trivalent Yttrium Adsorbed at the MuscoviteÂ(001)â€“Water Interface. Journal of Physical Chemistry C, 2013, 117, 23738-23749.	3.1	36
22	Heavy Metal Sorption at the Muscovite (001)â€“Fulvic Acid Interface. Environmental Science & Technology, 2011, 45, 9574-9581.	10.0	35
23	Rb⁺ Adsorption at the Quartz(101)â€“Aqueous Interface: Comparison of Resonant Anomalous X-ray Reflectivity with ab Initio Calculations. Journal of Physical Chemistry C, 2015, 119, 4778-4788.	3.1	34
24	Heteroepitaxial growth of cadmium carbonate at dolomite and calcite surfaces: Mechanisms and rates. Geochimica Et Cosmochimica Acta, 2017, 205, 360-380.	3.9	28
25	Ion correlations drive charge overscreening and heterogeneous nucleation at solidâ€“aqueous electrolyte interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
26	Adsorption of Plutonium Oxide Nanoparticles. Langmuir, 2012, 28, 2620-2627.	3.5	27
27	Surface-Mediated Formation of Pu(IV) Nanoparticles at the Muscovite-Electrolyte Interface. Environmental Science & Technology, 2013, 47, 14178-14184.	10.0	27
28	Surface Charge of the Calcite (104) Terrace Measured by Rb⁺ Adsorption in Aqueous Solutions Using Resonant Anomalous X-ray Reflectivity. Journal of Physical Chemistry C, 2016, 120, 15216-15223.	3.1	24
29	Pb²⁺â€“Calcite Interactions under Far-from-Equilibrium Conditions: Formation of Micropyramids and Pseudomorphic Growth of Cerussite. Journal of Physical Chemistry C, 2018, 122, 2238-2247.	3.1	23
30	Simultaneous Adsorption and Incorporation of Sr²⁺ at the Barite (001)â€“Water Interface. Journal of Physical Chemistry C, 2019, 123, 1194-1207.	3.1	21
31	Arsenic uptake in bacterial calcite. Geochimica Et Cosmochimica Acta, 2018, 222, 642-654.	3.9	20
32	Optimizing a flow-through X-ray transmission cell for studies of temporal and spatial variations of ion distributions at mineralâ€“water interfaces. Journal of Synchrotron Radiation, 2013, 20, 125-136.	2.4	17
33	Structural Characterization of Aluminum (Oxy)hydroxide Films at the Muscovite (001)â€“Water Interface. Langmuir, 2016, 32, 477-486.	3.5	14
34	Effect of pH on the Formation of Gibbsite-Layer Films at the Muscovite (001)â€“Water Interface. Journal of Physical Chemistry C, 2019, 123, 6560-6571.	3.1	14
35	Effect of nitrogen passivation on interface composition and physical stress in SiO2/SiC(4H) structures. Applied Physics Letters, 2018, 113, .	3.3	12
36	Effects of the background electrolyte on Th(IV) sorption to muscovite mica. Geochimica Et Cosmochimica Acta, 2015, 165, 280-293.	3.9	11

#	ARTICLE	IF	CITATIONS
37	Epitaxial Growth of Gibbsite Sheets on the Basal Surface of Muscovite Mica. Journal of Physical Chemistry C, 2019, 123, 27615-27627.	3.1	10
38	Nonclassical Behavior in Competitive Ion Adsorption at a Charged Solidâ€“Water Interface. Journal of Physical Chemistry Letters, 2020, 11, 4029-4035.	4.6	10
39	Pb Sorption at the Barite (001)â€“Water Interface. Journal of Physical Chemistry C, 2020, 124, 22035-22045.	3.1	9
40	Replacement of Calcium Carbonate Polymorphs by Cerussite. ACS Earth and Space Chemistry, 2021, 5, 2433-2441.	2.7	9
41	A Comparison of Adsorption, Reduction, and Polymerization of the Plutonyl(VI) and Uranyl(VI) Ions from Solution onto the Muscovite Basal Plane. Langmuir, 2016, 32, 10473-10482.	3.5	8
42	Effect of Anions on the Changes in the Structure and Adsorption Mechanism of Zirconium Species at the Muscovite (001)â€“Water Interface. Journal of Physical Chemistry C, 2019, 123, 16699-16710.	3.1	7
43	Evolution of Strain in Heteroepitaxial Cadmium Carbonate Overgrowths on Dolomite. Crystal Growth and Design, 2018, 18, 2871-2882.	3.0	6
44	Molecular-scale origins of wettability at petroleumâ€“brineâ€“carbonate interfaces. Scientific Reports, 2020, 10, 20507.	3.3	5
45	Templating Growth of a Pseudomorphic Lepidocrocite Microshell at the Calciteâ€“Water Interface. Chemistry of Materials, 2018, 30, 700-707.	6.7	4
46	Emergent Behavior at the Calciteâ€“Water Interface during Reactive Transport in a Simple Microfluidic Channel. ACS Earth and Space Chemistry, 2022, 6, 861-870.	2.7	4
47	Dissolution Kinetics of Epitaxial Cadmium Carbonate Overgrowths on Dolomite. ACS Earth and Space Chemistry, 2019, 3, 212-220.	2.7	3
48	Trivalent ion overcharging on electrified graphene. Journal of Physics Condensed Matter, 2022, 34, 144001.	1.8	3
49	Impact of Ionâ€“Ion Correlations on the Adsorption of M(III) (M = Am, Eu, Y) onto Muscovite (001) in the Presence of Sulfate. Journal of Physical Chemistry C, 2022, 126, 1400-1410.	3.1	3