Ke Yuan

List of Publications by Year
in descending order

20 papers	519 citations	933447 10 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	666 citing authors

#	Article	IF	Citations
1	Electrochemical and Spectroscopic Evidence on the One-Electron Reduction of U(VI) to U(V) on Magnetite. Environmental Science & Technology, 2015, 49, 6206-6213.	10.0	96
2	A self-consistent model describing the thermodynamics of Eu(III) adsorption onto hematite. Geochimica Et Cosmochimica Acta, 2013, 122, 430-447.	3.9	52
3	Uranium reduction on magnetite: Probing for pentavalent uranium using electrochemical methods. Geochimica Et Cosmochimica Acta, 2015, 156, 194-206.	3.9	52
4	Replacement of Calcite (CaCO₃) by Cerussite (PbCO₃). Environmental Science & Technology, 2016, 50, 12984-12991.	10.0	51
5	The energetics and kinetics of uranyl reduction on pyrite, hematite, and magnetite surfaces: A powder microelectrode study. Geochimica Et Cosmochimica Acta, 2013, 118, 56-71.	3.9	50
6	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
7	Oxidation induced strain and defects in magnetite crystals. Nature Communications, 2019, 10, 703.	12.8	40
8	Redox reactions of selenium as catalyzed by magnetite: Lessons learned from using electrochemistry and spectroscopic methods. Geochimica Et Cosmochimica Acta, 2017, 199, 304-323.	3.9	27
9	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
10	Opposing Effects of Impurity Ion Sr²⁺ on the Heterogeneous Nucleation and Growth of Barite (BaSO₄). Crystal Growth and Design, 2021, 21, 5828-5839.	3.0	17
11	Studies of Mineral Nucleation and Growth Across Multiple Scales: Review of the Current State of Research Using the Example of Barite (BaSO₄). ACS Earth and Space Chemistry, 2021, 5, 3338-3361.	2.7	15
12	An ab initio study of the adsorption of Eu3+, Pu3+, Am3+, and Cm3+ hydroxide complexes on hematite (001) surface: Role of magnetism on adsorption. Surface Science, 2017, 664, 120-128.	1.9	10
13	Replacement of Calcium Carbonate Polymorphs by Cerussite. ACS Earth and Space Chemistry, 2021, 5, 2433-2441.	2.7	9
14	Solution and Interface Structure and Dynamics in Geochemistry: Gateway to Link Elementary Processes to Mineral Nucleation and Growth. Crystal Growth and Design, 2022, 22, 853-870.	3.0	8
15	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
16	Numerical Study of Mineral Nucleation and Growth on a Substrate. ACS Earth and Space Chemistry, 2022, 6, 1655-1665.	2.7	6
17	Pentavalent Uranium Enriched Mineral Surface under Electrochemically Controlled Reducing Environments. ACS Earth and Space Chemistry, 2022, 6, 1204-1212.	2.7	5
18	Templating Growth of a Pseudomorphic Lepidocrocite Microshell at the Calciteâ€“Water Interface. Chemistry of Materials, 2018, 30, 700-707.	6.7	4

#	Article	IF	Citations
19	Density Functional Tight-Binding Simulations Reveal the Presence of Surface Defects on the Quartz (101)â€“Water Interface. Journal of Physical Chemistry C, 2021, 125, 16246-16255.	3.1	4
20	Thermodynamic mixing properties of the UO2â€“HfO2 solid solution: Density functional theory and Monte Carlo simulations. Journal of Nuclear Materials, 2015, 458, 296-303.	2.7	3