

Helen E King

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

912
citations

471061

17
h-index

454577

30
g-index

40
all docs

40
docs citations

40
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Secondary Phase Formation on the Carbonation of Olivine. <i>Environmental Science & Technology</i> , 2010, 44, 6503-6509.	4.6	126
2	Computer simulations of water interactions with low-coordinated forsterite surface sites: Implications for the origin of water in the inner solar system. <i>Earth and Planetary Science Letters</i> , 2010, 300, 11-18.	1.8	68
3	The role of grain boundaries and transient porosity in rocks as fluid pathways for reaction front propagation. <i>Earth and Planetary Science Letters</i> , 2014, 386, 64-74.	1.8	68
4	Control of silicate weathering by interface-coupled dissolution-precipitation processes at the mineral-solution interface. <i>Geology</i> , 2016, 44, 567-570.	2.0	68
5	Subduction zone forearc serpentinites as incubators for deep microbial life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4324-4329.	3.3	59
6	Experimental investigations into the silicification of olivine: Implications for the reaction mechanism and acid neutralization. <i>American Mineralogist</i> , 2011, 96, 1503-1511.	0.9	58
7	The legacy of crystal-plastic deformation in olivine: high-diffusivity pathways during serpentinization. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 701-724.	1.2	43
8	Nano-Tomography of Porous Geological Materials Using Focused Ion Beam-Scanning Electron Microscopy. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 104.	0.8	34
9	Coupled Dissolution and Precipitation at the Cerussite-Phosphate Solution Interface: Implications for Immobilization of Lead in Soils. <i>Environmental Science & Technology</i> , 2013, 47, 13502-13510.	4.6	29
10	Sequestration of Selenium on Calcite Surfaces Revealed by Nanoscale Imaging. <i>Environmental Science & Technology</i> , 2013, 47, 13469-13476.	4.6	28
11	Where on Earth has our water come from?. <i>Chemical Communications</i> , 2010, 46, 8923.	2.2	27
12	Forming Cohesive Calcium Oxalate Layers on Marble Surfaces for Stone Conservation. <i>Crystal Growth and Design</i> , 2014, 14, 3910-3917.	1.4	27
13	Siderite dissolution coupled to iron oxyhydroxide precipitation in the presence of arsenic revealed by nanoscale imaging. <i>Chemical Geology</i> , 2017, 449, 123-134.	1.4	27
14	Sequestration of Antimony on Calcite Observed by Time-Resolved Nanoscale Imaging. <i>Environmental Science & Technology</i> , 2018, 52, 107-113.	4.6	23
15	Surface-specific measurements of olivine dissolution by phase-shift interferometry. <i>American Mineralogist</i> , 2014, 99, 377-386.	0.9	22
16	Imaging Organophosphate and Pyrophosphate Sequestration on Brucite by in Situ Atomic Force Microscopy. <i>Environmental Science & Technology</i> , 2017, 51, 328-336.	4.6	21
17	3D Raman Spectroscopy of Large Zeolite ZSM-5 Crystals. <i>Chemistry - A European Journal</i> , 2019, 25, 7158-7167.	1.7	21
18	Visualizing Organophosphate Precipitation at the Calcite-Water Interface by in Situ Atomic-Force Microscopy. <i>Environmental Science & Technology</i> , 2016, 50, 259-268.	4.6	15

#	ARTICLE	IF	CITATIONS
19	Direct imaging of coupled dissolution-precipitation and growth processes on calcite exposed to chromium-rich fluids. <i>Chemical Geology</i> , 2020, 552, 119770.	1.4	15
20	Pseudomorphic replacement of diopside during interaction with (Ni,Mg)Cl ₂ aqueous solutions: Implications for the Ni-enrichment mechanism in talc- and serpentine-type phases. <i>Chemical Geology</i> , 2014, 380, 27-40.	1.4	14
21	Novel anatomic adaptation of cortical bone to meet increased mineral demands of reproduction. <i>Bone</i> , 2016, 85, 59-69.	1.4	14
22	The nanogeochemistry of abiotic carbonaceous matter in serpentinites from the Yap Trench, western Pacific Ocean. <i>Geology</i> , 2021, 49, 330-334.	2.0	14
23	Direct observations of the influence of solution composition on magnesite dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 113-126.	1.6	13
24	Vibrational spectroscopic analysis of hydroxyapatite in HYP mice and individuals with X-linked hypophosphatemia. <i>Therapeutic Advances in Chronic Disease</i> , 2018, 9, 268-281.	1.1	13
25	Tracing Mineral Reactions Using Confocal Raman Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 158.	0.8	11
26	Influence of Inorganic Solution Components on Lithium Carbonate Crystal Growth. <i>Crystal Growth and Design</i> , 2019, 19, 6994-7006.	1.4	9
27	The evolution of polycyclic aromatic hydrocarbons under simulated inner asteroid conditions. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1930-1950.	0.7	9
28	Nanoscale Observations of Magnesite Growth in Chloride- And Sulfate-Rich Solutions. <i>Environmental Science & Technology</i> , 2013, 47, 130722083055001.	4.6	7
29	Mineral Surface Rearrangement at High Temperatures: Implications for Extraterrestrial Mineral Grain Reactivity. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 113-121.	1.2	7
30	Changes in CO ₂ Adsorption Affinity Related to Ni Doping in FeS Surfaces: A DFT-D3 Study. <i>Catalysts</i> , 2021, 11, 486.	1.6	6
31	A computational study of the interaction of organic surfactants with goethite $\hat{\pm}$ -FeO(OH) surfaces. <i>RSC Advances</i> , 2016, 6, 91893-91903.	1.7	5
32	Rapid post-mortem oxygen isotope exchange in biogenic silica. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 61-74.	1.6	3
33	Fluids in human bodies and biomineralization: parallels to global water resources and reactions. <i>Environmental Earth Sciences</i> , 2014, 72, 5229-5234.	1.3	2
34	In Situ Nanoscale Investigation of Step Retreat on Fluoranthene Crystal Surfaces. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1301-1311.	1.2	2
35	Direct Observations of the Coupling between Quartz Dissolution and Mg-Silicate Formation. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 617-625.	1.2	2
36	Correlative vibrational spectroscopy and 2D X-ray diffraction to probe the mineralization of bone in phosphate-deficient mice. <i>Journal of Applied Crystallography</i> , 2019, 52, 960-971.	1.9	1

#	ARTICLE	IF	CITATIONS
37	Experimental and Theoretical Constraints on Amino Acid Formation from PAHs in Asteroidal Settings. ACS Earth and Space Chemistry, 2022, 6, 468-481.	1.2	1