

Karina K. Sand

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,162
citations

471509

17
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization of CaCO ₃ in Water-Alcohol Mixtures: Spherulitic Growth, Polymorph Stabilization, and Morphology Change. <i>Crystal Growth and Design</i> , 2012, 12, 842-853.	3.0	176
2	Interaction of Ethanol and Water with the {101̄...4} Surface of Calcite. <i>Langmuir</i> , 2010, 26, 14520-14529.	3.5	115
3	Binding of Ethanol on Calcite: The Role of the OH Bond and Its Relevance to Biomineralization. <i>Langmuir</i> , 2010, 26, 15239-15247.	3.5	102
4	Citrate Effects on Amorphous Calcium Carbonate (ACC) Structure, Stability, and Crystallization. <i>Advanced Functional Materials</i> , 2015, 25, 3081-3090.	14.9	84
5	THE MAJUAGAA KIMBERLITE DIKE, MANIITSOQ REGION, WEST GREENLAND: CONSTRAINTS ON AN Mg-RICH SILICOCARBONATITIC MELT COMPOSITION FROM GROUNDMASS MINERALOGY AND BULK COMPOSITIONS. <i>Canadian Mineralogist</i> , 2008, 46, 1043-1061.	1.0	70
6	Inhibition of Calcite Growth: Combined Effects of Mg ²⁺ and SO ₄ ²⁻ . <i>Crystal Growth and Design</i> , 2016, 16, 6199-6207.	3.0	69
7	The Effect of Aspartic Acid and Glycine on Amorphous Calcium Carbonate (ACC) Structure, Stability and Crystallization. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 143-148.	0.6	61
8	The mechanisms of crystal growth inhibition by organic and inorganic inhibitors. <i>Nature Communications</i> , 2018, 9, 1578.	12.8	57
9	Distribution of kimberlite and aillikite in the Diamond Province of southern West Greenland: A regional perspective based on groundmass mineral chemistry and bulk compositions. <i>Lithos</i> , 2009, 112, 358-371.	1.4	54
10	The lithospheric mantle below southern West Greenland: A geothermobarometric approach to diamond potential and mantle stratigraphy. <i>Lithos</i> , 2009, 112, 1155-1166.	1.4	51
11	Efficient long-range conduction in cable bacteria through nickel protein wires. <i>Nature Communications</i> , 2021, 12, 3996.	12.8	32
12	Polysaccharide Effects on Calcite Growth: The Influence of Composition and Branching. <i>Crystal Growth and Design</i> , 2012, 12, 4906-4910.	3.0	30
13	Biomineralization: Long-Term Effectiveness of Polysaccharides on the Growth and Dissolution of Calcite. <i>Crystal Growth and Design</i> , 2014, 14, 5486-5494.	3.0	30
14	Calcite Growth Kinetics: Dependence on Saturation Index, Ca ²⁺ :CO ₃ ²⁻ Activity Ratio, and Surface Atomic Structure. <i>Crystal Growth and Design</i> , 2016, 16, 3602-3612.	3.0	30
15	ACC and Vaterite as Intermediates in the Solution-Based Crystallization of CaCO ₃ . , 2017, , 93-111.		30
16	A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11086-11090.	13.8	24
17	Infrared Spectroscopy and Density Functional Theory Investigation of Calcite, Chalk, and Coccoliths-Do We Observe the Mineral Surface?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10720-10729.	2.5	22
18	Mineral Facilitated Horizontal Gene Transfer: A New Principle for Evolution of Life?. <i>Frontiers in Microbiology</i> , 2018, 9, 2217.	3.5	19

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19	A Microkinetic Model of Calcite Step Growth. <i>Angewandte Chemie</i> , 2016, 128, 11252-11256.	2.0	18
20	Ethanol adsorption on the {104} calcite surface: preliminary observations with atomic force microscopy. <i>Mineralogical Magazine</i> , 2008, 72, 353-357.	1.4	11
21	Quantifying the free energy landscape between polymers and minerals. <i>Scientific Reports</i> , 2017, 7, 8663.	3.3	11
22	Prebiotic RNA polymerisation: energetics of nucleotide adsorption and polymerisation on clay mineral surfaces. <i>Chemical Communications</i> , 2017, 53, 12700-12703.	4.1	10
23	Hematite Crystallization in the Presence of Organic Matter: Impact on Crystal Properties and Bacterial Dissolution. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 510-518.	2.7	10
24	Mechanistic insight into biopolymer induced iron oxide mineralization through quantification of molecular bonding. <i>Nanoscale Advances</i> , 2020, 2, 3323-3333.	4.6	10
25	Provinces of ultramafic lamprophyre dykes, kimberlite dykes and carbonatite in West Greenland characterised by minerals and chemical components in surface media. <i>Lithos</i> , 2009, 112, 116-123.	1.4	7
26	Controlling biomineralisation with cations. <i>Nanoscale</i> , 2017, 9, 12925-12933.	5.6	7
27	Thermodynamic and Kinetic Parameters for Calcite Nucleation on Peptoid and Model Scaffolds: A Step toward Nacre Mimicry. <i>Crystal Growth and Design</i> , 2020, 20, 3762-3771.	3.0	7
28	Aragonite growth in water-alcohol mixtures: Classical or nonclassical crystallization?. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1419, 7.	0.1	2