Xinyuan Ke

List of Publications by Year in descending order

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24	1,348	516561 16	642610 23
papers	citations	h-index	g-index

24	24	24	1118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uptake of chloride and carbonate by Mg-Al and Ca-Al layered double hydroxides in simulated pore solutions of alkali-activated slag cement. Cement and Concrete Research, 2017, 100, 1-13.	4.6	224
2	Controlling the reaction kinetics of sodium carbonate-activated slag cements using calcined layered double hydroxides. Cement and Concrete Research, 2016, 81, 24-37.	4.6	213
3	Oneâ€Part Geopolymers Based on Thermally Treated Red Mud/NaOH Blends. Journal of the American Ceramic Society, 2015, 98, 5-11.	1.9	184
4	Synthesis and Characterization of Geopolymer from Bayer Red Mud with Thermal Pretreatment. Journal of the American Ceramic Society, 2014, 97, 1652-1660.	1.9	167
5	Incorporation of strontium and calcium in geopolymer gels. Journal of Hazardous Materials, 2020, 382, 121015.	6.5	71
6	Characterization of supplementary cementitious materials by thermal analysis. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	64
7	Thermodynamic modelling of phase evolution in alkali-activated slag cements exposed to carbon dioxide. Cement and Concrete Research, 2020, 136, 106158.	4.6	56
8	Chloride binding and mobility in sodium carbonate-activated slag pastes and mortars. Materials and Structures/Materiaux Et Constructions, 2017, 50, 252.	1.3	52
9	Slag and Activator Chemistry Control the Reaction Kinetics of Sodium Metasilicate-Activated Slag Cements. Sustainability, 2018, 10, 4709.	1.6	47
10	Slag-Based Cements That Resist Damage Induced by Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 5067-5075.	3.2	39
11	A Bayesian machine learning approach for inverse prediction of high-performance concrete ingredients with targeted performance. Construction and Building Materials, 2021, 270, 121424.	3.2	32
12	Micro-fabricated electrochemical chloride ion sensors: From the present to the future. Talanta, 2020, 211, 120734.	2.9	29
13	Coupling machine learning with thermodynamic modelling to develop a composition-property model for alkali-activated materials. Composites Part B: Engineering, 2021, 216, 108801.	5.9	29
14	Alkali aluminosilicate geopolymers as binders to encapsulate strontium-selective titanate ion-exchangers. Dalton Transactions, 2019, 48, 12116-12126.	1.6	25
15	Activator Anion Influences the Nanostructure of Alkali-Activated Slag Cements. Journal of Physical Chemistry C, 2021, 125, 20727-20739.	1.5	23
16	The effects of biomineralization on the localised phase and microstructure evolutions of bacteria-based self-healing cementitious composites. Cement and Concrete Composites, 2022, 128, 104421.	4.6	22
17	Alternative inorganic binders based on alkali-activated metallurgical slags. , 2017, , 185-220.		15
18	Thermodynamic properties of sodium aluminosilicate hydrate (Nâ€“Aâ€“Sâ€“H). Dalton Transactions, 2021, 50, 13968-13984.	1.6	14

#	Article	IF	Citations
19	A spatially-varying relaxation parameter Lattice Boltzmann Method (SVRP-LBM) for predicting the effective thermal conductivity of composite material. Computational Materials Science, 2019, 169, 109080.	1.4	10
20	Assessing the suitability of alkali-activated metakaolin geopolymer for thermochemical heat storage. Microporous and Mesoporous Materials, 2021, 325, 111329.	2.2	10
21	Layered double hydroxides modify the reaction of sodium silicate-activated slag cements. Green Materials, 2019, 7, 52-60.	1.1	8
22	Metakaolin-Based Geopolymers for Nuclear Waste Encapsulation. RILEM Bookseries, 2018, , 183-188.	0.2	7
23	Influence of Thermal Treatment on Phase Transformation and Dissolubility of Aluminosilicate Phase in Red Mud. Materials Research Society Symposia Proceedings, 2012, 1488, 88.	0.1	5
24	Structural Ordering of Aged and Hydrothermally Cured Metakaolin Based Potassium Geopolymers. RILEM Bookseries, 2018, , 232-237.	0.2	2