

Siham Kamali-Bernard

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

982
citations

567281

15
h-index

642732

23
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29
all docs

29
docs citations

29
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of the reactivity and hydration of Portland cement clinker phases from atomistic simulation: A critical review. <i>Cement and Concrete Research</i> , 2022, 154, 106711.	11.0	14
2	Assessment of mechanical, thermal properties and crystal shapes of monoclinic tricalcium silicate from atomistic simulations. <i>Cement and Concrete Research</i> , 2021, 140, 106269.	11.0	18
3	Ab initio molecular dynamics description of proton transfer at water-tricalcium silicate interface. <i>Cement and Concrete Research</i> , 2020, 136, 106162.	11.0	15
4	Water's behaviour on Ca-rich tricalcium silicate surfaces for various degrees of hydration: A molecular dynamics investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 48-55.	4.0	22
5	Multiscale modelling approach to determine the specific heat of cementitious materials. <i>European Journal of Environmental and Civil Engineering</i> , 2019, 23, 535-551.	2.1	8
6	Durability of self-compacting concrete containing pumice and zeolite against acid attack, carbonation and marine environment. <i>Construction and Building Materials</i> , 2018, 165, 247-263.	7.2	74
7	Assessment of the elastic properties of amorphous calcium silicates hydrates (I) and (II) structures by molecular dynamics simulation. <i>Molecular Simulation</i> , 2018, 44, 285-299.	2.0	37
8	Experiment-based modelling of the mechanical behaviour of non-hazardous waste incineration bottom ashes treated by hydraulic binder. <i>MATEC Web of Conferences</i> , 2018, 149, 01038.	0.2	6
9	Statistical analysis of mechanical properties for main cement phases by nanoindentation technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 439, 042018.	0.6	0
10	Comparison of mechanical properties of C-S-H and portlandite between nano-indentation experiments and a modeling approach using various simulation techniques. <i>Composites Part B: Engineering</i> , 2018, 151, 127-138.	12.0	65
11	Experiment-based modelling of the mechanical behaviour of non-hazardous waste incineration bottom ashes treated by hydraulic binder. <i>MATEC Web of Conferences</i> , 2018, 149, 01038.	0.2	2
12	First-principles calculations of typical anisotropic cubic and hexagonal structures and homogenized moduli estimation based on the Y-parameter: Application to CaO, MgO, CH and Calcite CaCO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2017, 101, 74-89.	4.0	41
13	Influence of pumice and zeolite on compressive strength, transport properties and resistance to chloride penetration of high strength self-compacting concretes. <i>Construction and Building Materials</i> , 2017, 151, 292-311.	7.2	94
14	Combined meso-scale modeling and experimental investigation of the effect of mechanical damage on the transport properties of cementitious composites. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 96-97, 22-37.	4.0	12
15	Multiscale Modeling and Mechanical Properties of Zigzag CNT and Triple-Layer Graphene Sheet Based on Atomic Finite Element Method. <i>Journal of Nano Research</i> , 2015, 33, 92-105.	0.8	12
16	Numerical study of ITZ contribution on mechanical behavior and diffusivity of mortars. <i>Computational Materials Science</i> , 2015, 102, 250-257.	3.0	67
17	Towards a realistic morphological model for the meso-scale mechanical and transport behavior of cementitious composites. <i>Composites Part B: Engineering</i> , 2015, 81, 72-83.	12.0	24
18	Effect of Aggregate Type on the Concrete Matrix/Aggregates Interface and its Influence on the Overall Mechanical Behavior. A Numerical Study.. <i>Key Engineering Materials</i> , 2014, 617, 14-17.	0.4	19

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19	Nanoscale Modeling and Elastic Properties of Portlandite and Graphene Based on Atomic Finite Element Method. <i>Applied Mechanics and Materials</i> , 2014, 711, 137-142.	0.2	4
20	Design of new blended cement based on marine dredged sediment. <i>Construction and Building Materials</i> , 2013, 41, 602-611.	7.2	88
21	Predicting the evolution of mechanical and diffusivity properties of cement pastes and mortars for various hydration degrees " A numerical simulation investigation. <i>Computational Materials Science</i> , 2012, 61, 106-115.	3.0	29
22	How to assess the long-term behaviour of a mortar submitted to leaching?. <i>European Journal of Environmental and Civil Engineering</i> , 2011, 15, 1031-1043.	2.1	9
23	Physical and mechanical properties of mortars containing PET and PC waste aggregates. <i>Waste Management</i> , 2010, 30, 2312-2320.	7.4	263
24	Performance simulation and quantitative analysis of cement-based materials subjected to leaching. <i>Computational Materials Science</i> , 2010, 50, 218-226.	3.0	37
25	Modélisation tridimensionnelle et multi-échelle du comportement des matériaux cimentaires. <i>European Journal of Environmental and Civil Engineering</i> , 2009, 13, 21-32.	2.1	2
26	Effect of the interfacial transition zone and the nature of the matrix-aggregate interface on the overall elastic and inelastic behaviour of concrete under compression: a 3D numerical study. <i>European Journal of Environmental and Civil Engineering</i> , 0, , 1-10.	2.1	4
27	Experimental Estimation of the Elastic Modulus of Non-Hazardous Waste Incineration Bottom Ash Aggregates by Indentation Tests - Microanalysis of Particles by Scanning Electron Microscopy. <i>Advanced Materials Research</i> , 0, 1145, 80-84.	0.3	8
28	Original Experimental Campaign of Indentation Instrumented on Aggregates of Non-Hazardous Waste Incineration Bottom Ash to Study the Heterogeneity of their Rigidity. <i>Key Engineering Materials</i> , 0, 805, 177-182.	0.4	6
29	Mechanical Behaviour of Cement-Bound Gravels by Experiment-Based 3D Multi-Scale Modelling: Application to Non-Hazardous Waste Incineration Bottom Ashes Aggregates for Use in Road Engineering. <i>International Journal of Engineering Research in Africa</i> , 0, 54, 71-85.	0.7	2