

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
g-index

29
all docs

29
docs citations

29
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and mechanical properties of mortars containing PET and PC waste aggregates. Waste Management, 2010, 30, 2312-2320.	7.4	263
2	Influence of pumice and zeolite on compressive strength, transport properties and resistance to chloride penetration of high strength self-compacting concretes. Construction and Building Materials, 2017, 151, 292-311.	7.2	94
3	Design of new blended cement based on marine dredged sediment. Construction and Building Materials, 2013, 41, 602-611.	7.2	88
4	Durability of self-compacting concrete containing pumice and zeolite against acid attack, carbonation and marine environment. Construction and Building Materials, 2018, 165, 247-263.	7.2	74
5	Numerical study of ITZ contribution on mechanical behavior and diffusivity of mortars. Computational Materials Science, 2015, 102, 250-257.	3.0	67
6	Comparison of mechanical properties of C-S-H and portlandite between nano-indentation experiments and a modeling approach using various simulation techniques. Composites Part B: Engineering, 2018, 151, 127-138.	12.0	65
7	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 . Journal of Physics and Chemistry of Solids, 2017, 101, 74-89.	4.0	41
8	Performance simulation and quantitative analysis of cement-based materials subjected to leaching. Computational Materials Science, 2010, 50, 218-226.	3.0	37
9	Assessment of the elastic properties of amorphous calcium silicates hydrates (I) and (II) structures by molecular dynamics simulation. Molecular Simulation, 2018, 44, 285-299.	2.0	37
10	Predicting the evolution of mechanical and diffusivity properties of cement pastes and mortars for various hydration degrees " A numerical simulation investigation. Computational Materials Science, 2012, 61, 106-115.	3.0	29
11	Towards a realistic morphological model for the meso-scale mechanical and transport behavior of cementitious composites. Composites Part B: Engineering, 2015, 81, 72-83.	12.0	24
12	Water's behaviour on Ca-rich tricalcium silicate surfaces for various degrees of hydration: A molecular dynamics investigation. Journal of Physics and Chemistry of Solids, 2019, 132, 48-55.	4.0	22
13	Effect of Aggregate Type on the Concrete Matrix/Aggregates Interface and its Influence on the Overall Mechanical Behavior. A Numerical Study.. Key Engineering Materials, 2014, 617, 14-17.	0.4	19
14	Assessment of mechanical, thermal properties and crystal shapes of monoclinic tricalcium silicate from atomistic simulations. Cement and Concrete Research, 2021, 140, 106269.	11.0	18
15	Ab initio molecular dynamics description of proton transfer at water-tricalcium silicate interface. Cement and Concrete Research, 2020, 136, 106162.	11.0	15
16	Assessment of the reactivity and hydration of Portland cement clinker phases from atomistic simulation: A critical review. Cement and Concrete Research, 2022, 154, 106711.	11.0	14
17	Multiscale Modeling and Mechanical Properties of Zigzag CNT and Triple-Layer Graphene Sheet Based on Atomic Finite Element Method. Journal of Nano Research, 2015, 33, 92-105.	0.8	12
18	Combined meso-scale modeling and experimental investigation of the effect of mechanical damage on the transport properties of cementitious composites. Journal of Physics and Chemistry of Solids, 2016, 96-97, 22-37.	4.0	12

#	ARTICLE	IF	CITATIONS
19	How to assess the long-term behaviour of a mortar submitted to leaching?. European Journal of Environmental and Civil Engineering, 2011, 15, 1031-1043.	2.1	9
20	Experimental Estimation of the Elastic Modulus of Non-Hazardous Waste Incineration Bottom Ash Aggregates by Indentation Tests - Microanalysis of Particles by Scanning Electron Microscopy. Advanced Materials Research, 0, 1145, 80-84.	0.3	8
21	Multiscale modelling approach to determine the specific heat of cementitious materials. European Journal of Environmental and Civil Engineering, 2019, 23, 535-551.	2.1	8
22	Experiment-based modelling of the mechanical behaviour of non-hazardous waste incineration bottom ashes treated by hydraulic binder. MATEC Web of Conferences, 2018, 149, 01038.	0.2	6
23	Original Experimental Campaign of Indentation Instrumented on Aggregates of Non-Hazardous Waste Incineration Bottom Ash to Study the Heterogeneity of their Rigidity. Key Engineering Materials, 0, 805, 177-182.	0.4	6
24	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. European Journal of Environmental and Civil Engineering, 0, , 1-10.	2.1	4
25	Nanoscale Modeling and Elastic Properties of Portlandite and Graphene Based on Atomic Finite Element Method. Applied Mechanics and Materials, 2014, 711, 137-142.	0.2	4
26	Modélisation tridimensionnelle et multi-échelle du comportement des matériaux cimentaires. European Journal of Environmental and Civil Engineering, 2009, 13, 21-32.	2.1	2
27	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. International Journal of Engineering Research in Africa, 0, 54, 71-85.	0.7	2
28	Experiment-based modelling of the mechanical behaviour of non-hazardous waste incineration bottom ashes treated by hydraulic binder. MATEC Web of Conferences, 2018, 149, 01038.	0.2	2
29	Statistical analysis of mechanical properties for main cement phases by nanoindentation technique. IOP Conference Series: Materials Science and Engineering, 2018, 439, 042018.	0.6	0