

Kwesi Sagoe-Crentsil

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

447
citations

759055

12
h-index

713332

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29
all docs

29
docs citations

29
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	Limestone calcined clay cement: mechanical properties, crystallography, and microstructure development. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 427-440.	1.7	5
2	A new empirical diffusion model for solvents in sprayed seals based on evaporation measurements. <i>International Journal of Pavement Engineering</i> , 2022, 23, 3592-3602.	2.2	1
3	Determining the disordered nanostructure of calcium silicate hydrate (C-S-H) from broad X-ray diffractograms. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1491-1502.	1.9	6
4	Graphene Oxide-Based Mesoporous Calcium Silicate Hydrate Sandwich-like Structure: Synthesis and Application for Thermal Energy Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 958-969.	2.5	10
5	The interaction of graphene oxide with cement mortar: implications on reinforcing mechanisms. <i>Journal of Materials Science</i> , 2022, 57, 3405-3415.	1.7	7
6	A century of research on calcium silicate hydrate (C-S-H): Leaping from structural characterization to nanoengineering. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3081-3099.	1.9	15
7	Microstructure of graphene oxide-silica-reinforced OPC composites: Image-based characterization and nano-identification through deep learning. <i>Cement and Concrete Research</i> , 2022, 154, 106737.	4.6	20
8	Effective strategies to realize high-performance graphene-reinforced cement composites. <i>Construction and Building Materials</i> , 2022, 324, 126636.	3.2	19
9	Capillary bridges between unsaturated nano-mineral particles: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8398-8407.	1.3	0
10	Damage-tolerant material design motif derived from asymmetrical rotation. <i>Nature Communications</i> , 2022, 13, 1289.	5.8	3
11	Graphene oxide-reinforced thin shells for high-performance, lightweight cement composites. <i>Composites Part B: Engineering</i> , 2022, 235, 109796.	5.9	12
12	Large set microstructure reconstruction mimicking quantum computing approach via deep learning. <i>Acta Materialia</i> , 2022, 230, 117860.	3.8	1
13	Revealing Microstructural Modifications of Graphene Oxide-Modified Cement via Deep Learning and Nanoporosity Mapping: Implications for Structural Materials™ Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 7092-7102.	2.4	3
14	Proposed mechanism for the enhanced microstructure of graphene oxide-Portland cement composites. <i>Journal of Building Engineering</i> , 2022, 54, 104604.	1.6	5
15	Antifoaming effect of graphene oxide nanosheets in polymer-modified cement composites for enhanced microstructure and mechanical performance. <i>Cement and Concrete Research</i> , 2022, 158, 106843.	4.6	22
16	Direct 2D cement-nanoadditive deposition enabling carbon-neutral hydrogen from natural gas. <i>Nano Energy</i> , 2022, 99, 107415.	8.2	8
17	Pathways to Commercialisation for Brown Coal Fly Ash-Based Geopolymer Concrete in Australia. <i>Sustainability</i> , 2021, 13, 4350.	1.6	8
18	Controlling the rheological properties of cement for a submillimetre-thin shell structure. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Controlled growth and ordering of poorly-crystalline calcium-silicate-hydrate nanosheets. <i>Communications Materials</i> , 2021, 2, .	2.9	19
20	Graphene oxide-coated sand for improving performance of cement composites. <i>Cement and Concrete Composites</i> , 2021, 124, 104279.	4.6	28
21	Digital concrete modelling: An alternative approach to microstructural pore analysis of cement hydrates. <i>Construction and Building Materials</i> , 2021, 303, 124558.	3.2	9
22	Mechanisms of dispersion of nanoparticle-decorated graphene oxide nanosheets in aqueous media: Experimental and molecular dynamics simulation study. <i>Carbon</i> , 2021, 184, 689-697.	5.4	9
23	Dispersion of silane-functionalized GO and its reinforcing effects in cement composites. <i>Journal of Building Engineering</i> , 2021, 43, 103228.	1.6	5
24	Predicting the permeability of consolidated silty clay via digital soil reconstruction. <i>Computers and Geotechnics</i> , 2021, 140, 104468.	2.3	8
25	Effect of Graphene Oxide on the Pore Structure of Cement Paste: Implications for Performance Enhancement. <i>ACS Applied Nano Materials</i> , 2021, 4, 10623-10633.	2.4	15
26	Dispersion of graphene oxide-silica nanohybrids in alkaline environment for improving ordinary Portland cement composites. <i>Cement and Concrete Composites</i> , 2020, 106, 103488.	4.6	71
27	Graphene oxide-coated Poly(vinyl alcohol) fibers for enhanced fiber-reinforced cementitious composites. <i>Composites Part B: Engineering</i> , 2019, 174, 107010.	5.9	45
28	Pore shape analysis using centrifuge driven metal intrusion: Indication on porosimetry equations, hydration and packing. <i>Construction and Building Materials</i> , 2017, 154, 95-104.	3.2	40
29	Distribution of carbon nanotubes in fresh ordinary Portland cement pastes: understanding from a two-phase perspective. <i>RSC Advances</i> , 2016, 6, 5745-5753.	1.7	50