

Joon Ho Seo

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,345
citations

168829

31
h-index

162838

57
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65
docs citations

65
times ranked

2435
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of bio-adsorptive removal performance of strontium through ureolysis-mediated bio-mineralization. <i>Chemosphere</i> , 2022, 288, 132586.	4.2	1
2	Exploration of effects of CO ₂ exposure on the NO _x -removal performance of TiO ₂ -incorporated Portland cement evaluated via microstructural and morphological investigation. <i>Journal of Building Engineering</i> , 2022, 45, 103609.	1.6	3
3	Effect of the molar ratio of calcium sulfate over ye'elimite on the reaction of CSA cement/slag blends under an accelerated carbonation condition. <i>Journal of Building Engineering</i> , 2022, 46, 103785.	1.6	2
4	Effects of exposure temperature on the piezoresistive sensing performances of MWCNT-embedded cementitious sensor. <i>Journal of Building Engineering</i> , 2022, 47, 103816.	1.6	14
5	Evaluation of physicochemical properties and environmental impact of environmentally amicable Portland cement/metakaolin bricks exposed to humid or CO ₂ curing condition. <i>Journal of Building Engineering</i> , 2022, 47, 103831.	1.6	5
6	Enhanced electrical heating capability of CNT-embedded cementitious composites exposed to water ingress with addition of silica aerogel. <i>Ceramics International</i> , 2022, 48, 13356-13365.	2.3	9
7	Improved electromagnetic interference shielding performances of carbon nanotube and carbonyl iron powder (CNT@CIP)-embedded polymeric composites. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1256-1266.	2.6	20
8	Local AI network and material characterization of belite-calcium sulfoaluminate (CSA) cements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	7
9	Modifications in hydration kinetics and characteristics of calcium aluminate cement upon blending with calcium sulfoaluminate cement. <i>Construction and Building Materials</i> , 2022, 342, 127958.	3.2	12
10	Hydration of calcium sulfoaluminate cement blended with blast-furnace slag. <i>Construction and Building Materials</i> , 2021, 268, 121214.	3.2	44
11	Effects of silica aerogel inclusion on the stability of heat generation and heat-dependent electrical characteristics of cementitious composites with CNT. <i>Cement and Concrete Composites</i> , 2021, 115, 103861.	4.6	26
12	A novel physicochemical approach to dispersion of carbon nanotubes in polypropylene composites. <i>Composite Structures</i> , 2021, 258, 113377.	3.1	24
13	Recent advances in microbial viability and self-healing performance in bacterial-based cementitious materials: A review. <i>Construction and Building Materials</i> , 2021, 274, 122094.	3.2	39
14	Experimental and theoretical studies of hydration of ultra-high performance concrete cured under various curing conditions. <i>Construction and Building Materials</i> , 2021, 278, 122352.	3.2	17
15	Carbonation of calcium sulfoaluminate cement blended with blast furnace slag. <i>Cement and Concrete Composites</i> , 2021, 118, 103918.	4.6	45
16	Microstructural evolution and carbonation behavior of lime-slag binary binders. <i>Cement and Concrete Composites</i> , 2021, 119, 104000.	4.6	21
17	Influence of Polyethylene Terephthalate Powder on Hydration of Portland Cement. <i>Polymers</i> , 2021, 13, 2551.	2.0	6
18	Improved electric heating characteristics of CNT-embedded polymeric composites with an addition of silica aerogel. <i>Composites Science and Technology</i> , 2021, 212, 108866.	3.8	25

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19	Influence of water ingress on the electrical properties and electromechanical sensing capabilities of CNT/cement composites. <i>Journal of Building Engineering</i> , 2021, 42, 103065.	1.6	15
20	Artificial neural network approach for predicting tunneling-induced and frequency-dependent electrical impedances of conductive polymeric composites. <i>Materials Letters</i> , 2021, 302, 130420.	1.3	16
21	Internal carbonation of belite-rich Portland cement: An in-depth observation at the interaction of the belite phase with sodium bicarbonate. <i>Journal of Building Engineering</i> , 2021, 44, 102907.	1.6	2
22	Hydration properties of alkali-activated fly ash/slag binders modified by MgO with different reactivity. <i>Journal of Building Engineering</i> , 2021, 44, 103252.	1.6	14
23	Role of Al in the crystal growth of alkali-activated fly ash and slag under a hydrothermal condition. <i>Construction and Building Materials</i> , 2020, 239, 117842.	3.2	15
24	Structural evolution of binder gel in alkali-activated cements exposed to electrically accelerated leaching conditions. <i>Journal of Hazardous Materials</i> , 2020, 387, 121825.	6.5	14
25	Thermal behavior of alkali-activated fly ash/slag with the addition of an aerogel as an aggregate replacement. <i>Cement and Concrete Composites</i> , 2020, 106, 103462.	4.6	33
26	Effects of biological admixtures on hydration and mechanical properties of Portland cement paste. <i>Construction and Building Materials</i> , 2020, 235, 117461.	3.2	19
27	CO ₂ Uptake and Physicochemical Properties of Carbonation-Cured Ternary Blend Portland Cement–Metakaolin–Limestone Pastes. <i>Materials</i> , 2020, 13, 4656.	1.3	19
28	Effect of carbonyl iron powder incorporation on the piezoresistive sensing characteristics of CNT-based polymeric sensor. <i>Composite Structures</i> , 2020, 244, 112260.	3.1	37
29	Effect of CaO incorporation on the microstructure and autogenous shrinkage of ternary blend Portland cement-slag-silica fume. <i>Construction and Building Materials</i> , 2020, 249, 118691.	3.2	27
30	Characterization of blast furnace slag-blended Portland cement for immobilization of Co. <i>Cement and Concrete Research</i> , 2020, 134, 106089.	4.6	26
31	Hydration kinetics and products of MgO-activated blast furnace slag. <i>Construction and Building Materials</i> , 2020, 249, 118700.	3.2	46
32	Impact of Bio-Carrier Immobilized with Marine Bacteria on Self-Healing Performance of Cement-Based Materials. <i>Materials</i> , 2020, 13, 4164.	1.3	9
33	Carbon nanotube (CNT) incorporated cementitious composites for functional construction materials: The state of the art. <i>Composite Structures</i> , 2019, 227, 111244.	3.1	95
34	Effect of CaSO ₄ on hydration and phase conversion of calcium aluminate cement. <i>Construction and Building Materials</i> , 2019, 224, 40-47.	3.2	31
35	Effect of CaSO ₄ Incorporation on Pore Structure and Drying Shrinkage of Alkali-Activated Binders. <i>Materials</i> , 2019, 12, 1673.	1.3	14
36	Calcined Oyster Shell Powder as an Expansive Additive in Cement Mortar. <i>Materials</i> , 2019, 12, 1322.	1.3	51

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37	Utilization of Calcium Carbide Residue Using Granulated Blast Furnace Slag. <i>Materials</i> , 2019, 12, 3511.	1.3	17
38	Enhancement of the modulus of compression of calcium silicate hydrates via covalent synthesis of CNT and silica fume. <i>Construction and Building Materials</i> , 2019, 198, 218-225.	3.2	12
39	Evolution of the binder gel in carbonation-cured Portland cement in an acidic medium. <i>Cement and Concrete Research</i> , 2018, 109, 81-89.	4.6	49
40	Pull-off bond behavior of anchored random-chopped FRP composites bonded to concrete. <i>Composite Structures</i> , 2018, 185, 193-202.	3.1	7
41	Hydration kinetics of high-strength concrete with untreated coal bottom ash for internal curing. <i>Cement and Concrete Composites</i> , 2018, 91, 67-75.	4.6	51
42	Synergistic effects of carbon nanotubes and carbon fibers on heat generation and electrical characteristics of cementitious composites. <i>Carbon</i> , 2018, 134, 283-292.	5.4	46
43	Effect of nano-silica on hydration and conversion of calcium aluminate cement. <i>Construction and Building Materials</i> , 2018, 169, 819-825.	3.2	59
44	CO ₂ Uptake of Carbonation-Cured Cement Blended with Ground Volcanic Ash. <i>Materials</i> , 2018, 11, 2187.	1.3	23
45	Pressure-Induced Geopolymerization in Alkali-Activated Fly Ash. <i>Sustainability</i> , 2018, 10, 3538.	1.6	14
46	Effect of MgO on chloride penetration resistance of alkali-activated binder. <i>Construction and Building Materials</i> , 2018, 178, 584-592.	3.2	32
47	Fabrication and design of electromagnetic wave absorber composed of carbon nanotube-incorporated cement composites. <i>Composite Structures</i> , 2018, 206, 439-447.	3.1	42
48	Autogenous shrinkage and electrical characteristics of cement pastes and mortars with carbon nanotube and carbon fiber. <i>Construction and Building Materials</i> , 2018, 177, 428-435.	3.2	46
49	Circulating fluidized bed combustion ash as controlled low-strength material (CLSM) by alkaline activation. <i>Construction and Building Materials</i> , 2017, 156, 728-738.	3.2	39
50	Stable conversion of metastable hydrates in calcium aluminate cement by early carbonation curing. <i>Journal of CO₂ Utilization</i> , 2017, 21, 224-226.	3.3	47
51	Structural strengthening and damage behaviors of hybrid sprayed fiber-reinforced polymer composites containing carbon fiber cores. <i>International Journal of Damage Mechanics</i> , 2017, 26, 358-376.	2.4	17
52	Physical barrier effect of geopolymeric waste form on diffusivity of cesium and strontium. <i>Journal of Hazardous Materials</i> , 2016, 318, 339-346.	6.5	61
53	Synergistic effect of MWNT/fly ash incorporation on the EMI shielding/absorbing characteristics of cementitious materials. <i>Construction and Building Materials</i> , 2016, 115, 651-661.	3.2	50
54	Review on recent advances in CO ₂ utilization and sequestration technologies in cement-based materials. <i>Construction and Building Materials</i> , 2016, 127, 762-773.	3.2	209

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55	Physicochemical properties of binder gel in alkali-activated fly ash/slag exposed to high temperatures. Cement and Concrete Research, 2016, 89, 72-79.	4.6	155
56	Microstructural densification and CO ₂ uptake promoted by the carbonation curing of belite-rich Portland cement. Cement and Concrete Research, 2016, 82, 50-57.	4.6	220
57	Resistance of coal bottom ash mortar against the coupled deterioration of carbonation and chloride penetration. Materials and Design, 2016, 93, 160-167.	3.3	52
58	Heating and heat-dependent mechanical characteristics of CNT-embedded cementitious composites. Composite Structures, 2016, 136, 162-170.	3.1	110
59	Percolation threshold and piezoresistive response of multi-wall carbon nanotube/cement composites. Smart Structures and Systems, 2016, 18, 217-231.	1.9	44
60	The influence of sodium hydrogen carbonate on the hydration of cement. Construction and Building Materials, 2015, 94, 746-749.	3.2	33
61	Reactivity and reaction products of alkali-activated, fly ash/slag paste. Construction and Building Materials, 2015, 81, 303-312.	3.2	192
62	Enhanced effect of carbon nanotube on mechanical and electrical properties of cement composites by incorporation of silica fume. Composite Structures, 2014, 107, 60-69.	3.1	280
63	Shrinkage characteristics of alkali-activated fly ash/slag paste and mortar at early ages. Cement and Concrete Composites, 2014, 53, 239-248.	4.6	309
64	Microbially mediated calcium carbonate precipitation on normal and lightweight concrete. Construction and Building Materials, 2013, 38, 1073-1082.	3.2	120
65	Autogenous shrinkage of concrete containing granulated blast-furnace slag. Cement and Concrete Research, 2006, 36, 1279-1285.	4.6	206