Joon Ho Seo

List of Publications by Year in Descending Order

65 papers	1,988 citations	23 h-index	43 g-index
65 ext. papers	2,612 ext. citations	6.5 avg, IF	5.77 L-index

#	Paper	IF	Citations
65	Enhanced electrical heating capability of CNT-embedded cementitious composites exposed to water ingress with addition of silica aerogel. *Ceramics International*, **2022**,	5.1	1
64	Effects of exposure temperature on the piezoresistive sensing performances of MWCNT-embedded cementitious sensor. *Journal of Building Engineering*, **2022**, 47, 103816	5.2	3
63	Evaluation of physicochemical properties and environmental impact of environmentally amicable Portland cement/metakaolin bricks exposed to humid or CO2 curing condition. *Journal of Building Engineering*, **2022**, 47, 103831	5.2	1
62	Improved electromagnetic interference shielding performances of carbon nanotube and carbonyl iron powder (CNT@CIP)-embedded polymeric composites. *Journal of Materials Research and Technology*, **2022**, 18, 1256-1266	5.5	0
61	Local Al network and material characterization of belite-calcium sulfoaluminate (CSA) cements. *Materials and Structures/Materiaux Et Constructions*, **2022**, 55, 1	3.4	1
60	Modifications in hydration kinetics and characteristics of calcium aluminate cement upon blending with calcium sulfoaluminate cement. *Construction and Building Materials*, **2022**, 342, 127958	6.7	0
59	Exploration of effects of CO2 exposure on the NOx-removal performance of TiO2-incorporated Portland cement evaluated via microstructural and morphological investigation. *Journal of Building Engineering*, **2021**, 103609	5.2	1
58	Effect of the molar ratio of calcium sulfate over ye'elimite on the reaction of CSA cement/slag blends under an accelerated carbonation condition. *Journal of Building Engineering*, **2021**, 103785	5.2	
57	Characterization of bio-adsorptive removal performance of strontium through ureolysis-mediated bio-mineralization. *Chemosphere*, **2021**, 288, 132586	8.4	1
56	Recent advances in microbial viability and self-healing performance in bacterial-based cementitious materials: A review. *Construction and Building Materials*, **2021**, 274, 122094	6.7	10
55	Experimental and theoretical studies of hydration of ultra-high performance concrete cured under various curing conditions. *Construction and Building Materials*, **2021**, 278, 122352	6.7	3
54	Carbonation of calcium sulfoaluminate cement blended with blast furnace slag. *Cement and Concrete Composites*, **2021**, 118, 103918	8.6	15
53	Microstructural evolution and carbonation behavior of lime-slag binary binders. *Cement and Concrete Composites*, **2021**, 119, 104000	8.6	5
52	Influence of Polyethylene Terephthalate Powder on Hydration of Portland Cement. *Polymers*, **2021**, 13,	4.5	3
51	Hydration of calcium sulfoaluminate cement blended with blast-furnace slag. *Construction and Building Materials*, **2021**, 268, 121214	6.7	15
50	Effects of silica aerogel inclusion on the stability of heat generation and heat-dependent electrical characteristics of cementitious composites with CNT. *Cement and Concrete Composites*, **2021**, 115, 103861	8.6	12
49	A novel physicomechanical approach to dispersion of carbon nanotubes in polypropylene composites. *Composite Structures*, **2021**, 258, 113377	5.3	8

48	Improved electric heating characteristics of CNT-embedded polymeric composites with an addition of silica aerogel. *Composites Science and Technology*, **2021**, 212, 108866	8.6	12
47	Influence of water ingress on the electrical properties and electromechanical sensing capabilities of CNT/cement composites. *Journal of Building Engineering*, **2021**, 42, 103065	5.2	7
46	Artificial neural network approach for predicting tunneling-induced and frequency-dependent electrical impedances of conductive polymeric composites. *Materials Letters*, **2021**, 302, 130420	3.3	5
45	Internal carbonation of belite-rich Portland cement: An in-depth observation at the interaction of the belite phase with sodium bicarbonate. *Journal of Building Engineering*, **2021**, 44, 102907	5.2	1
44	Hydration properties of alkali-activated fly ash/slag binders modified by MgO with different reactivity. *Journal of Building Engineering*, **2021**, 44, 103252	5.2	5
43	Effect of carbonyl iron powder incorporation on the piezoresistive sensing characteristics of CNT-based polymeric sensor. *Composite Structures*, **2020**, 244, 112260	5.3	19
42	Effect of CaO incorporation on the microstructure and autogenous shrinkage of ternary blend Portland cement-slag-silica fume. *Construction and Building Materials*, **2020**, 249, 118691	6.7	12
41	Impact of Bio-Carrier Immobilized with Marine Bacteria on Self-Healing Performance of Cement-Based Materials. *Materials*, **2020**, 13,	3.5	3
40	Characterization of blast furnace slag-blended Portland cement for immobilization of Co. *Cement and Concrete Research*, **2020**, 134, 106089	10.3	16
39	Hydration kinetics and products of MgO-activated blast furnace slag. *Construction and Building Materials*, **2020**, 249, 118700	6.7	24
38	Role of Al in the crystal growth of alkali-activated fly ash and slag under a hydrothermal condition. *Construction and Building Materials*, **2020**, 239, 117842	6.7	10
37	Structural evolution of binder gel in alkali-activated cements exposed to electrically accelerated leaching conditions. *Journal of Hazardous Materials*, **2020**, 387, 121825	12.8	4
36	Thermal behavior of alkali-activated fly ash/slag with the addition of an aerogel as an aggregate replacement. *Cement and Concrete Composites*, **2020**, 106, 103462	8.6	17
35	Effects of biological admixtures on hydration and mechanical properties of Portland cement paste. *Construction and Building Materials*, **2020**, 235, 117461	6.7	9
34	CO Uptake and Physicochemical Properties of Carbonation-Cured Ternary Blend Portland Cement-Metakaolin-Limestone Pastes. *Materials*, **2020**, 13,	3.5	5
33	Effect of CaSO Incorporation on Pore Structure and Drying Shrinkage of Alkali-Activated Binders. *Materials*, **2019**, 12,	3.5	6
32	Calcined Oyster Shell Powder as an Expansive Additive in Cement Mortar. *Materials*, **2019**, 12,	3.5	17
31	Carbon nanotube (CNT) incorporated cementitious composites for functional construction materials: The state of the art. *Composite Structures*, **2019**, 227, 111244	5.3	61

30	Effect of CaSO4 on hydration and phase conversion of calcium aluminate cement. *Construction and Building Materials*, **2019**, 224, 40-47	6.7	16
29	Utilization of Calcium Carbide Residue Using Granulated Blast Furnace Slag. *Materials*, **2019**, 12,	3.5	5
28	Enhancement of the modulus of compression of calcium silicate hydrates via covalent synthesis of CNT and silica fume. *Construction and Building Materials*, **2019**, 198, 218-225	6.7	11
27	Evolution of the binder gel in carbonation-cured Portland cement in an acidic medium. *Cement and Concrete Research*, **2018**, 109, 81-89	10.3	29
26	Pull-off bond behavior of anchored random-chopped FRP composites bonded to concrete. *Composite Structures*, **2018**, 185, 193-202	5.3	6
25	Hydration kinetics of high-strength concrete with untreated coal bottom ash for internal curing. *Cement and Concrete Composites*, **2018**, 91, 67-75	8.6	26
24	Synergistic effects of carbon nanotubes and carbon fibers on heat generation and electrical characteristics of cementitious composites. *Carbon*, **2018**, 134, 283-292	10.4	31
23	Effect of nano-silica on hydration and conversion of calcium aluminate cement. *Construction and Building Materials*, **2018**, 169, 819-825	6.7	32
22	Fabrication and design of electromagnetic wave absorber composed of carbon nanotube-incorporated cement composites. *Composite Structures*, **2018**, 206, 439-447	5.3	25
21	Autogenous shrinkage and electrical characteristics of cement pastes and mortars with carbon nanotube and carbon fiber. *Construction and Building Materials*, **2018**, 177, 428-435	6.7	30
20	CO□Uptake of Carbonation-Cured Cement Blended with Ground Volcanic Ash. *Materials*, **2018**, 11,	3.5	12
19	Pressure-Induced Geopolymerization in Alkali-Activated Fly Ash. *Sustainability*, **2018**, 10, 3538	3.6	10
18	Effect of MgO on chloride penetration resistance of alkali-activated binder. *Construction and Building Materials*, **2018**, 178, 584-592	6.7	19
17	Circulating fluidized bed combustion ash as controlled low-strength material (CLSM) by alkaline activation. *Construction and Building Materials*, **2017**, 156, 728-738	6.7	23
16	Stable conversion of metastable hydrates in calcium aluminate cement by early carbonation curing. *Journal of CO2 Utilization*, **2017**, 21, 224-226	7.6	28
15	Structural strengthening and damage behaviors of hybrid sprayed fiber-reinforced polymer composites containing carbon fiber cores. *International Journal of Damage Mechanics*, **2017**, 26, 358-376	3	13
14	Physicochemical properties of binder gel in alkali-activated fly ash/slag exposed to high temperatures. *Cement and Concrete Research*, **2016**, 89, 72-79	10.3	98
13	Microstructural densification and CO2 uptake promoted by the carbonation curing of belite-rich Portland cement. *Cement and Concrete Research*, **2016**, 82, 50-57	10.3	110

12	Resistance of coal bottom ash mortar against the coupled deterioration of carbonation and chloride penetration. *Materials and Design*, **2016**, 93, 160-167	8.1	37
11	Heating and heat-dependent mechanical characteristics of CNT-embedded cementitious composites. *Composite Structures*, **2016**, 136, 162-170	5.3	80
10	Percolation threshold and piezoresistive response of multi-wall carbon nanotube/cement composites. *Smart Structures and Systems*, **2016**, 18, 217-231		33
9	Physical barrier effect of geopolymeric waste form on diffusivity of cesium and strontium. *Journal of Hazardous Materials*, **2016**, 318, 339-346	12.8	39
8	Synergistic effect of MWNT/fly ash incorporation on the EMI shielding/absorbing characteristics of cementitious materials. *Construction and Building Materials*, **2016**, 115, 651-661	6.7	30
7	Review on recent advances in CO2 utilization and sequestration technologies in cement-based materials. *Construction and Building Materials*, **2016**, 127, 762-773	6.7	105
6	The influence of sodium hydrogen carbonate on the hydration of cement. *Construction and Building Materials*, **2015**, 94, 746-749	6.7	24
5	Reactivity and reaction products of alkali-activated, fly ash/slag paste. *Construction and Building Materials*, **2015**, 81, 303-312	6.7	126
4	Shrinkage characteristics of alkali-activated fly ash/slag paste and mortar at early ages. *Cement and Concrete Composites*, **2014**, 53, 239-248	8.6	207
3	Enhanced effect of carbon nanotube on mechanical and electrical properties of cement composites by incorporation of silica fume. *Composite Structures*, **2014**, 107, 60-69	5.3	219
2	Microbially mediated calcium carbonate precipitation on normal and lightweight concrete. *Construction and Building Materials*, **2013**, 38, 1073-1082	6.7	93
1	Autogenous shrinkage of concrete containing granulated blast-furnace slag. *Cement and Concrete Research*, **2006**, 36, 1279-1285	10.3	159