Seyoon Yoon

List of Publications by Year
in descending order

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36	978	516710 16	434195 31
papers	citations	h-index	g-index

36	36	36	1026
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unlocking the secrets of Al-tobermorite in Roman seawater concrete. American Mineralogist, 2013, 98, 1669-1687.	1.9	133
2	A study of thermal decomposition of phases in cementitious systems using HT-XRD and TG. Construction and Building Materials, 2018, 169, 648-661.	7.2	84
3	Characterization of natural pozzolan-based geopolymeric binders. Cement and Concrete Composites, 2014, 53, 97-104.	10.7	83
4	Chloride adsorption by calcined layered double hydroxides inÂhardened Portland cement paste. Materials Chemistry and Physics, 2014, 145, 376-386.	4.0	75
5	Effects of CaCl 2 on hydration and properties of lime(CaO)-activated slag/fly ash binder. Cement and Concrete Composites, 2017, 84, 111-123.	10.7	62
6	Statistical evaluation of the mechanical properties of high-volume class F fly ash concretes. Construction and Building Materials, 2014, 54, 432-442.	7.2	55
7	Advanced Nanoscale Characterization of Cement Based Materials Using X-Ray Synchrotron Radiation: A Review. International Journal of Concrete Structures and Materials, 2013, 7, 95-110.	3.2	51
8	A Comparison Study for Chloride-Binding Capacity between Alkali-Activated Fly Ash and Slag in the Use of Seawater. Applied Sciences (Switzerland), 2017, 7, 971.	2.5	48
9	Phase Changes of Monosulfoaluminate in NaCl Aqueous Solution. Materials, 2016, 9, 401.	2.9	37
10	Mechanical properties of jennite: A theoretical and experimental study. Cement and Concrete Research, 2015, 71, 106-114.	11.0	33
11	Elastic Properties of Tricalcium Aluminate from Highâ€Pressure Experiments and Firstâ€Principles Calculations. Journal of the American Ceramic Society, 2012, 95, 2972-2978.	3.8	32
12	Estimation of the thermal properties of hardened cement paste on the basis of guarded heat flow meter measurements. Thermochimica Acta, 2014, 588, 1-10.	2.7	28
13	Mesoporous La/Mg/Si-incorporated palm shell activated carbon for the highly efficient removal of aluminum and fluoride from water. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 306-314.	5.3	28
14	First-principles elasticity of monocarboaluminate hydrates. American Mineralogist, 2014, 99, 1360-1368.	1.9	21
15	X-ray spectromicroscopic study of interactions between NaCl and calcium silicate hydrates. Magazine of Concrete Research, 2014, 66, 141-149.	2.0	20
16	Soft Xâ€ray Spectromicroscopic Investigation of Synthetic Câ€Sâ€H and C 3 S Hydration Products. Journal of the American Ceramic Society, 2015, 98, 2914-2920.	3.8	19
17	Influence of calcium and sodium nitrate on the strength and reaction products of the CaO-activated GGBFS system. Construction and Building Materials, 2019, 215, 839-848.	7.2	17
18	Incorporation of copper slag in cement brick production as a radiation shielding material. Applied Radiation and Isotopes, 2021, 176, 109851.	1.5	17

#	Article	IF	Citations
19	Development of strong lightweight cementitious matrix for lightweight concrete simply by increasing a water-to-binder ratio in Ca(OH)2-Na2CO3-activated fly ash system. Construction and Building Materials, 2017, 152, 444-455.	7.2	16
20	Application of Hydrophilic Silanol-Based Chemical Grout for Strengthening Damaged Reinforced Concrete Flexural Members. Materials, 2014, 7, 4823-4844.	2.9	14
21	Application of micro-CT to Mori-Tanaka method for non-randomly oriented pores in air-entrained cement pastes. Construction and Building Materials, 2020, 255, 119342.	7.2	13
22	Molecular Dynamics Study of Water Molecules in Interlayer of 14 Ã... Tobermorite. Journal of Advanced Concrete Technology, 2013, 11, 180-188.	1.8	12
23	Evaluation of orientation and distribution of steel fibers in high-performance concrete column determined via micro-computed tomography. Construction and Building Materials, 2021, 270, 121473.	7.2	12
24	High-accuracy rebar position detection using deep learningâ€“based frequency-difference electrical resistance tomography. Automation in Construction, 2022, 135, 104116.	9.8	11
25	Proposed specific heat capacity model for a concrete wall containing phase change material (PCM) under field experiment conditions. Construction and Building Materials, 2022, 336, 127381.	7.2	8
26	The effects of surface treatments on rapid chloride permeability tests. Materials Chemistry and Physics, 2012, 135, 699-708.	4.0	7
27	Influence of the degree of crystallinity of added nano-alumina on strength and reaction products of the CaO-activated GGBFS system. Construction and Building Materials, 2021, 296, 123647.	7.2	7
28	Use of Coal Bottom Ash and CaO-CaCl2-Activated GGBFS Binder in the Manufacturing of Artificial Fine Aggregates through Cold-Bonded Pelletization. Materials, 2020, 13, 5598.	2.9	6
29	Predicting airborne chloride deposition in marine bridge structures using an artificial neural network model. Construction and Building Materials, 2022, 337, 127623.	7.2	6
30	Influence of Calcium Sulfate Type on Evolution of Reaction Products and Strength in NaOH- and CaO-Activated Ground Granulated Blast-Furnace Slag. Applied Sciences (Switzerland), 2018, 8, 2500.	2.5	5
31	Lightweight cementless composite of CaO-CaCl2-CaSO4-activated GGBFS developed as an alternative to lightweight gypsum composite. Construction and Building Materials, 2021, 268, 121065.	7.2	4
32	Detecting embedded rebar in cement mortar by frequency-difference electrical resistance tomography. Automation in Construction, 2021, 132, 103974.	9.8	4
33	Micropore Structures in Cenosphere-Containing Cementitious Materials Using Micro-CT. Advances in Materials Science and Engineering, 2017, 2017, 1-10.	1.8	3
34	The cuboid method for measurement of thermal properties of cement-based materials using the guarded heat flow meter. Construction and Building Materials, 2018, 186, 801-810.	7.2	3
35	Characterization of Micro-Pore Structure in Novel Cement Matrices. Materials Research Society Symposia Proceedings, 2014, 1712, 57.	0.1	2
36	Simulation of Chloride Ingress through Surface-Coated Concrete during Migration Test Using Finite-Difference and Finite-Element Method. International Journal of Polymer Science, 2017, 2017, 1-12.	2.7	2