

Taehwan Kim

List of Publications by Year in descending order

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41
papers

1,187
citations

361045

20
h-index

377514

34
g-index

41
all docs

41
docs citations

41
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Sample Preparation and Interpretation of Thermogravimetric Curves on Calcium Hydroxide in Hydrated Pastes and Mortars. Transportation Research Record, 2012, 2290, 10-18.	1.0	201
2	Alkali-silica reaction: Kinetics of chemistry of pore solution and calcium hydroxide content in cementitious system. Cement and Concrete Research, 2015, 71, 36-45.	4.6	70
3	Waste-derived activators for alkali-activated materials: A review. Cement and Concrete Composites, 2021, 118, 103980.	4.6	62
4	Distinctive rheological and temporal viscoelastic behaviour of alkali-activated fly ash/slag pastes: A comparative study with cement paste. Cement and Concrete Research, 2021, 144, 106441.	4.6	58
5	Direct three-dimensional observation of the microstructure and chemistry of C3S hydration. Cement and Concrete Research, 2016, 88, 157-169.	4.6	54
6	High strength/density ratio in a syntactic foam made from one-part mix geopolymer and cenospheres. Composites Part B: Engineering, 2019, 173, 106908.	5.9	53
7	Chemical Sequence and Kinetics of Alkali-Silica Reaction Part I. Experiments. Journal of the American Ceramic Society, 2014, 97, 2195-2203.	1.9	49
8	Mitigation of alkali-silica reaction by limestone calcined clay cement (LC3). Cement and Concrete Research, 2020, 137, 106176.	4.6	47
9	Fly ash particle characterization for predicting concrete compressive strength. Construction and Building Materials, 2018, 165, 560-571.	3.2	46
10	Direct measurements of 3d structure, chemistry and mass density during the induction period of C3s hydration. Cement and Concrete Research, 2016, 89, 14-26.	4.6	44
11	Autogenous and total shrinkage of limestone calcined clay cement (LC3) concretes. Construction and Building Materials, 2022, 314, 125720.	3.2	42
12	Chemical Sequence and Kinetics of Alkali-Silica Reaction Part II. A Thermodynamic Model. Journal of the American Ceramic Society, 2014, 97, 2204-2212.	1.9	40
13	Performance of fly ash concrete with ferronickel slag fine aggregate against alkali-silica reaction and chloride diffusion. Cement and Concrete Research, 2021, 139, 106265.	4.6	35
14	Physical and chemical characteristics of fly ash using automated scanning electron microscopy. Construction and Building Materials, 2016, 106, 1-10.	3.2	33
15	Long-term behaviour of square concrete-filled steel tubular columns under axial service loads. Magazine of Concrete Research, 2007, 59, 53-68.	0.9	32
16	The effects of lithium ions on chemical sequence of alkali-silica reaction. Cement and Concrete Research, 2016, 79, 159-168.	4.6	32
17	Durability and Microstructure Properties of Low-Carbon Concrete Incorporating Ferronickel Slag Sand and Fly Ash. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	32
18	Predicting the compressive strength of fly ash concrete with the Particle Model. Cement and Concrete Research, 2020, 137, 106218.	4.6	29

#	ARTICLE	IF	CITATIONS
19	Effect of rice husk ash-derived activator on the structural build-up of alkali activated materials. Cement and Concrete Research, 2021, 150, 106590.	4.6	27
20	Using particle composition of fly ash to predict concrete strength and electrical resistivity. Cement and Concrete Composites, 2020, 107, 103493.	4.6	23
21	Effect of limestone in General Purpose cement on autogenous shrinkage of high strength GGBFS concrete and pastes. Construction and Building Materials, 2022, 327, 126949.	3.2	22
22	Using the Particle Model to predict electrical resistivity performance of fly ash in concrete. Construction and Building Materials, 2020, 261, 119975.	3.2	21
23	Evaluating Effect of GGBFS in Alkali-Silica Reaction in Geopolymer Mortar with Accelerated Mortar Bar Test. Journal of Materials in Civil Engineering, 2019, 31, 04019167.	1.3	19
24	Initial sequence for alkali-silica reaction: Transport barrier and spatial distribution of reaction products. Cement and Concrete Composites, 2019, 104, 103378.	4.6	17
25	Analytical model predicting the concrete tensile stress development in the restrained shrinkage ring test. Construction and Building Materials, 2021, 307, 124930.	3.2	16
26	Sensor array for wireless remote monitoring of carbon dioxide and methane near carbon sequestration and oil recovery sites. RSC Advances, 2021, 11, 6972-6984.	1.7	13
27	Evolution of flow properties, plastic viscosity, and yield stress of alkali-activated fly ash/slag pastes. RILEM Technical Letters, 0, 5, 141-149.	0.0	11
28	The influence of air cooled blast furnace slag (ACBFS) aggregate on the concentration of sulfates in concrete's pore solution. Construction and Building Materials, 2018, 168, 394-403.	3.2	9
29	Durability performance of binary and ternary blended cementitious systems with calcined clay: a RILEM TC 282-CCL, review. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	1.3	9
30	The efficiency of recycled glass powder in mitigating the alkali-silica reaction induced by recycled glass aggregate in cementitious mortars. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	1.3	8
31	Modeling of early age loss of lithium ions from pore solution of cementitious systems treated with lithium nitrate. Cement and Concrete Research, 2015, 67, 204-214.	4.6	7
32	Analytical model to parameterize the adiabatic temperature rise of concrete. Construction and Building Materials, 2021, 268, 121656.	3.2	6
33	Chemo-mechanical properties of carbon fiber reinforced geopolymer interphase. Journal of the American Ceramic Society, 2022, 105, 1519-1532.	1.9	6
34	Synthesis of chemically controlled cementitious materials using organic steric entrapment (OSE) method: Process, advantages, and characterisation. Cement and Concrete Research, 2022, 153, 106698.	4.6	4
35	Dissolution and Leaching of Fly Ash in Nitric Acid Using Automated Scanning Electron Microscopy. Advances in Civil Engineering Materials, 2018, 7, 291-307.	0.2	3
36	Mitigation of Alkali-Silica Reaction in Limestone Calcined Clay Cement-Based Mortar. RILEM Bookseries, 2020, , 665-672.	0.2	3

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37	Modeling blended cement concrete tensile creep for standard ring test application. Structural Concrete, 2023, 24, 2170-2188.	1.5	2
38	Using Particle Characterization to Study Fly Ash Dissolution and Leaching in Water and KOH Solution. ACI Materials Journal, 2019, 116, .	0.3	1
39	Autogenous Shrinkage of Fly Ash and GGBFS Concrete. Magazine of Concrete Research, 0, , 1-31.	0.9	1
40	Effects of Air-Cooled Blast Furnace Slag Aggregate on Pore Solution Chemistry of Cementitious Systems. Journal of Materials in Civil Engineering, 2020, 32, 04019317.	1.3	0
41	Rheological Behaviour and Flow Properties of Alkali-Activated Materials. RILEM Bookseries, 2021, , 257-269.	0.2	0