

Kenichiro Nakarai

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

687
citations

567281

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57
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Calcium Leaching from Cement Hydrates Coupled with Micro-Pore Formation. <i>Journal of Advanced Concrete Technology</i> , 2006, 4, 395-407.	1.8	89
2	Strength development of cement-treated soils: Effects of water content, carbonation, and pozzolanic reaction under drying curing condition. <i>Construction and Building Materials</i> , 2017, 134, 703-712.	7.2	72
3	Analysis of strength development in cement-treated soils under different curing conditions through microstructural and chemical investigations. <i>Construction and Building Materials</i> , 2018, 166, 634-646.	7.2	64
4	Effect of carbonation on strength development of cement-treated Toyoura silica sand. <i>Soils and Foundations</i> , 2015, 55, 857-865.	3.1	50
5	Effect of internal water content on carbonation progress in cement-treated sand and effect of carbonation on compressive strength. <i>Cement and Concrete Composites</i> , 2018, 85, 9-21.	10.7	43
6	Multi-Scale Physicochemical Modeling of Soil-Cementitious Material Interaction. <i>Soils and Foundations</i> , 2006, 46, 653-663.	3.1	34
7	Internal curing of Class-F fly-ash concrete using high-volume roof-tile waste aggregate. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	3.1	32
8	A study on pozzolanic reaction of fly ash cement paste activated by an injection of alkali solution. <i>Construction and Building Materials</i> , 2015, 94, 28-34.	7.2	30
9	Effect of water-cement ratio, aggregate type, and curing temperature on the fracture energy of concrete. <i>Construction and Building Materials</i> , 2020, 259, 119646.	7.2	25
10	Long-term permeability measurements on site-cast concrete box culverts. <i>Construction and Building Materials</i> , 2019, 198, 777-785.	7.2	21
11	Enhanced thermodynamic analysis coupled with temperature-dependent microstructures of cement hydrates. <i>Cement and Concrete Research</i> , 2007, 37, 139-150.	11.0	20
12	Shear Strength of Reinforced Concrete Beams: Concrete Volumetric Change Effects. <i>Journal of Advanced Concrete Technology</i> , 2016, 14, 229-244.	1.8	20
13	Durability index for quality classification of cover concrete based on water intentional spraying tests. <i>Cement and Concrete Composites</i> , 2019, 104, 103355.	10.7	20
14	Early evaluation of cover concrete quality utilizing water intentional spray tests. <i>Construction and Building Materials</i> , 2020, 231, 117144.	7.2	17
15	Validation of simple nondestructive method for evaluation of cover concrete quality. <i>Construction and Building Materials</i> , 2019, 201, 430-438.	7.2	15
16	Effect of internal alkali activation on pozzolanic reaction of low-calcium fly ash cement paste. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 3039-3053.	3.1	13
17	Effects of early-age thermal microcracking on material properties and structural performance of limestone aggregate concrete. <i>Cement and Concrete Composites</i> , 2021, 124, 104267.	10.7	11
18	Adsorptivity of heavy metals CuII, CdII, and PbII on woodchip-mixed porous mortar. <i>Chemical Engineering Journal</i> , 2013, 215-216, 202-208.	12.7	8

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19	Difference in Strength Development between Cement-Treated Sand and Mortar with Various Cement Types and Curing Temperatures. <i>Materials</i> , 2020, 13, 4999.	2.9	8
20	Service life prediction of steam-cured concrete utilizing in-situ air permeability measurements. <i>Cement and Concrete Composites</i> , 2020, 114, 103747.	10.7	8
21	Calcite Precipitation at Cement–Bentonite Interface. Part 1: Effect of Carbonate Admixture in Bentonite. <i>Journal of Advanced Concrete Technology</i> , 2021, 19, 433-446.	1.8	8
22	Influences of moisture change and pore structure alteration on transport properties of concrete cover. <i>Cement and Concrete Composites</i> , 2021, 122, 104090.	10.7	8
23	Effect of temperature on nondestructive measurements for air permeability and water sorptivity of cover concrete. <i>Construction and Building Materials</i> , 2022, 334, 127361.	7.2	8
24	Effects of slag type and curing method on the performance of expansive concrete. <i>Construction and Building Materials</i> , 2020, 262, 120422.	7.2	7
25	Effect of surface moisture on air-permeability kT and its correction. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	7
26	Applicability of a simplified estimation method to steam-cured expansive concrete. <i>Cement and Concrete Composites</i> , 2019, 95, 217-227.	10.7	6
27	Shear Strength of Reinforced Limestone Aggregate Concrete Beams. <i>ACI Structural Journal</i> , 2017, 114, .	0.2	6
28	Delayed Shear Crack Formation of Shallow RC Box Culverts in Service. , 2015, , .		5
29	Shear Creep Failures of Reinforced Concrete Slender Beams without Shear Reinforcement. <i>ACI Structural Journal</i> , 2017, 114, .	0.2	5
30	Physicomechanical properties and durability of a new lightweight porous mortar utilizing woodchips. <i>Journal of Cleaner Production</i> , 2019, 235, 158-165.	9.3	3
31	Calcite Precipitation at Cement–Bentonite Interface. Part 2: Acceleration of Transport by an Electrical Gradient. <i>Journal of Advanced Concrete Technology</i> , 2021, 19, 447-461.	1.8	3
32	Low-Level Radioactive Waste Disposal in Japan and Role of Cementitious Materials. <i>Journal of Advanced Concrete Technology</i> , 2022, 20, 359-374.	1.8	3
33	Strength development of cement-treated sand using different cement types cured at different temperatures. <i>MATEC Web of Conferences</i> , 2018, 195, 01006.	0.2	2
34	EXPERIMENTAL STUDY ON EFFECT OF CARBONATION OF EARLY AGED CEMENT PASTE ON MICRO-PORE STRUCTURE AND EFFECTIVE DIFFUSION COEFFICIENT OF OXYGEN. <i>Cement Science and Concrete Technology</i> , 2009, 63, 99-106.	0.1	2
35	Air permeability coefficients of expansive concrete confined by rebars. <i>Lecture Notes in Civil Engineering</i> , 2020, , 561-566.	0.4	2
36	INFLUENCE OF CO ₂ CONCENTRATION ON MICRO-PORE STRUCTURE AND OXYGEN DIFFUSION COEFFICIENT OF CARBONATED CEMENT PASTE AT EARLY AGE. <i>Cement Science and Concrete Technology</i> , 2010, 64, 111-118.	0.1	1

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37	INFLUENCE OF CARBONATION AT EARLY AGES ON DEPTH DISTRIBUTION OF OXYGEN DIFFUSION COEFFICIENT OF HARDENED CEMENT PASTE. Cement Science and Concrete Technology, 2010, 64, 370-376.	0.1	1
38	Analytical study on creep shear failures of RC slender beams without web reinforcement. MATEC Web of Conferences, 2018, 195, 02010.	0.2	1
39	ANALYSIS OF APPLICABILITY OF SIMPLIFIED ESTIMATION METHOD OF EXPANSIVE CEMENT CONCRETE USING CYLINDRICAL LIGHT-WEIGHT STEEL MOLD BASED ON MECHANICAL WORK. Cement Science and Concrete Technology, 2011, 65, 209-216.	0.1	1
40	CAPTURING IN CEMENT PASTE OF HEAVY METAL ADDED WITH DIFFERENT METHODS. Cement Science and Concrete Technology, 2014, 68, 375-381.	0.1	1
41	CHANGE IN SURFACE AIR PERMEABILITY OF CONCRETE WITH DIFFERENT MIX DESIGNS AND CURING. Cement Science and Concrete Technology, 2017, 71, 410-417.	0.1	1
42	CARBON DIOXIDE FIXATION DUE TO PHOTOSYNTHESIS OF EUGLENA IN POROUS MORTAR. Cement Science and Concrete Technology, 2011, 65, 536-543.	0.1	1
43	EFFECT OF MOISTURE CONTENT AND PONDING CONDITION ON PENETRATION AND LEACHING OF CESIUM IN MORTAR. Cement Science and Concrete Technology, 2013, 67, 210-215.	0.1	1
44	INSTIGATION ON MECHANISM OF LONG-TERM STRENGTH DEVELOPMENT OF CARBONATED CEMENT-TREATED SAND. Cement Science and Concrete Technology, 2014, 68, 523-528.	0.1	1
45	Experimental investigation of loading rate effects on the shear capacity of reinforced concrete deep beams. Lecture Notes in Civil Engineering, 2020, , 573-578.	0.4	1
46	Influence of water content of surrounding soil on surface strength of cement-treated soil. Japanese Geotechnical Journal, 2019, 14, 307-320.	0.1	1
47	Effect of Lime Stone Aggregate on Drying Shrinkage and Shear Strength of an RC Beam. , 2015, , .		0
48	Influence of Longitudinal Reinforcement Ratio on Shear Strength of RC Slender Beam Under Different Loading Rates. Applied Mechanics and Materials, 0, 897, 91-97.	0.2	0
49	Evaluation of Chloride Penetration in Concrete by Resistivity. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 1005-1010.	0.2	0
50	RE-EVALUATION OF WORK BY EXPANSIVE CEMENT CONCRETE WITH LOW REINFORCEMENT RATIOS. Cement Science and Concrete Technology, 2010, 64, 154-161.	0.1	0
51	Swelling deformation of bentonite mixed with inorganic materials in alkaline solution. Japanese Geotechnical Journal, 2015, 10, 45-55.	0.1	0
52	WORK DONE BY EXPANSIVE CONCRETE RESTRAINED BY ECCENTRIC DOUBLE STEEL PIPE. Cement Science and Concrete Technology, 2017, 71, 218-225.	0.1	0
53	Nondestructive Evaluation for Air Permeability and Water Absorption of Cover Concrete Affected by Rainfall. Lecture Notes in Civil Engineering, 2022, , 773-781.	0.4	0
54	Air Permeability of Precast Concrete Box Culvert Applying Steam Curing Condition. Lecture Notes in Civil Engineering, 2020, , 425-430.	0.4	0

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55	Woodchip-mixing porous mortar's adsorption of cesium in aqueous media. Journal of Material Cycles and Waste Management, 0, , 1.	3.0	0