Kenichiro Nakarai

List of Publications by Year
in descending order

55	687	567281 15	580821 25
papers	citations	h-index	g-index

57	57	57	526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Effect of temperature on nondestructive measurements for air permeability and water sorptivity of cover concrete. Construction and Building Materials, 2022, 334, 127361.	7.2	8
3	Low-Level Radioactive Waste Disposal in Japan and Role of Cementitious Materials. Journal of Advanced Concrete Technology, 2022, 20, 359-374.	1.8	3
4	Effect of surface moisture on air-permeability kT and its correction. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	7
5	Calcite Precipitation at Cementâ€“Bentonite Interface. Part 2: Acceleration of Transport by an Electrical Gradient. Journal of Advanced Concrete Technology, 2021, 19, 447-461.	1.8	3
6	Calcite Precipitation at Cementâ€“Bentonite Interface. Part 1: Effect of Carbonate Admixture in Bentonite. Journal of Advanced Concrete Technology, 2021, 19, 433-446.	1.8	8
7	Influences of moisture change and pore structure alteration on transport properties of concrete cover. Cement and Concrete Composites, 2021, 122, 104090.	10.7	8
8	Effects of early-age thermal microcracking on material properties and structural performance of limestone aggregate concrete. Cement and Concrete Composites, 2021, 124, 104267.	10.7	11
9	Early evaluation of cover concrete quality utilizing water intentional spray tests. Construction and Building Materials, 2020, 231, 117144.	7.2	17
10	Difference in Strength Development between Cement-Treated Sand and Mortar with Various Cement Types and Curing Temperatures. Materials, 2020, 13, 4999.	2.9	8
11	Service life prediction of steam-cured concrete utilizing in-situ air permeability measurements. Cement and Concrete Composites, 2020, 114, 103747.	10.7	8
12	Effects of slag type and curing method on the performance of expansive concrete. Construction and Building Materials, 2020, 262, 120422.	7.2	7
13	Effect of waterâ€“cement ratio, aggregate type, and curing temperature on the fracture energy of concrete. Construction and Building Materials, 2020, 259, 119646.	7.2	25
14	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
15	Air permeability coefficients of expansive concrete confined by rebars. Lecture Notes in Civil Engineering, 2020, , 561-566.	0.4	2
16	Air Permeability of Precast Concrete Box Culvert Applying Steam Curing Condition. Lecture Notes in Civil Engineering, 2020, , 425-430.	0.4	0
17	Long-term permeability measurements on site-cast concrete box culverts. Construction and Building Materials, 2019, 198, 777-785.	7.2	21
18	Physicomechanical properties and durability of a new lightweight porous mortar utilizing woodchips. Journal of Cleaner Production, 2019, 235, 158-165.	9.3	3

#	Article	IF	Citations
19	Durability index for quality classification of cover concrete based on water intentional spraying tests. Cement and Concrete Composites, 2019, 104, 103355.	10.7	20
20	Applicability of a simplified estimation method to steam-cured expansive concrete. Cement and Concrete Composites, 2019, 95, 217-227.	10.7	6
21	Validation of simple nondestructive method for evaluation of cover concrete quality. Construction and Building Materials, 2019, 201, 430-438.	7.2	15
22	Influence of water content of surrounding soil on surface strength of cement-treated soil. Japanese Geotechnical Journal, 2019, 14, 307-320.	0.1	1
23	Analysis of strength development in cement-treated soils under different curing conditions through microstructural and chemical investigations. Construction and Building Materials, 2018, 166, 634-646.	7.2	64
24	Effect of internal water content on carbonation progress in cement-treated sand and effect of carbonation on compressive strength. Cement and Concrete Composites, 2018, 85, 9-21.	10.7	43
25	Strength development of cement-treated sand using different cement types cured at different temperatures. MATEC Web of Conferences, 2018, 195, 01006.	0.2	2
26	Analytical study on creep shear failures of RC slender beams without web reinforcement. MATEC Web of Conferences, 2018, 195, 02010.	0.2	1
27	Strength development of cement-treated soils: Effects of water content, carbonation, and pozzolanic reaction under drying curing condition. Construction and Building Materials, 2017, 134, 703-712.	7.2	72
28	Internal curing of Class-F fly-ash concrete using high-volume roof-tile waste aggregate. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	32
29	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
30	Shear Strength of Reinforced Limestone Aggregate Concrete Beams. ACI Structural Journal, 2017, 114, .	0.2	6
31	Shear Creep Failures of Reinforced Concrete Slender Beams without Shear Reinforcement. ACI Structural Journal, 2017, 114, .	0.2	5
32	WORK DONE BY EXPANSIVE CONCRETE RESTRAINED BY ECCENTRIC DOUBLE STEEL PIPE. Cement Science and Concrete Technology, 2017, 71, 218-225.	0.1	0
33	Shear Strength of Reinforced Concrete Beams: Concrete Volumetric Change Effects. Journal of Advanced Concrete Technology, 2016, 14, 229-244.	1.8	20
34	Effect of internal alkali activation on pozzolanic reaction of low-calcium fly ash cement paste. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3039-3053.	3.1	13
35	Effect of carbonation on strength development of cement-treated Toyoura silica sand. Soils and Foundations, 2015, 55, 857-865.	3.1	50
36	Delayed Shear Crack Formation of Shallow RC Box Culverts in Service. , 2015, , .		5

#	Article	IF	Citations
37	Effect of Lime Stone Aggregate on Drying Shrinkage and Shear Strength of an RC Beam. , 2015, , .		0
38	A study on pozzolanic reaction of fly ash cement paste activated by an injection of alkali solution. Construction and Building Materials, 2015, 94, 28-34.	7.2	30
39	Swelling deformation of bentonite mixed with inorganic materials in alkaline solution. Japanese Geotechnical Journal, 2015, 10, 45-55.	0.1	0
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	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
42	Adsorptivity of heavy metals CuII, CdII, and PbII on woodchip-mixed porous mortar. Chemical Engineering Journal, 2013, 215-216, 202-208.	12.7	8
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	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
45	CARBON DIOXIDE FIXATION DUE TO PHOTOSYNTHESIS OF EUGLENA IN POROUS MORTAR. Cement Science and Concrete Technology, 2011, 65, 536-543.	0.1	1
46	INFLUENCE OF CO₂ CONCENTRATION ON MICRO-PORE STRUCTURE AND OXYGEN DIFFUSION COEFFICIENT OF CARBONATED CEMENT PASTE AT EARLY AGE. Cement Science and Concrete Technology, 2010, 64, 111-118.	0.1	1
47	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
48	RE-EVALUATION OF WORK BY EXPANSIVE CEMENT CONCRETE WITH LOW REINFORCEMENT RATIOS. Cement Science and Concrete Technology, 2010, 64, 154-161.	0.1	0
49	EXPERIMENTAL STUDY ON EFFECT OF CARBONATION OF EARLY AGED CEMENT PASTE ON MICRO-PORE STRUCTURE AND EFFECTIVE DIFFUSION COEFFICIENT OF OXYGEN. Cement Science and Concrete Technology, 2009, 63, 99-106.	0.1	2
50	Evaluation of Chloride Penetration in Concrete by Resistivity. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 1005-1010.	0.2	0
51	Enhanced thermodynamic analysis coupled with temperature-dependent microstructures of cement hydrates. Cement and Concrete Research, 2007, 37, 139-150.	11.0	20
52	Modeling of Calcium Leaching from Cement Hydrates Coupled with Micro-Pore Formation. Journal of Advanced Concrete Technology, 2006, 4, 395-407.	1.8	89
53	Multi-Scale Physicochemical Modeling of Soil-Cementitious Material Interaction. Soils and Foundations, 2006, 46, 653-663.	3.1	34
54	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

#	Article	IF	Citations
55	Woodchip-mixing porous mortarâ€™s adsorption of cesium in aqueous media. Journal of Material Cycles and Waste Management, 0, , 1.	3.0	0