Ippei Maruyama

List of Publications by Year in descending order

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47 papers	2,337 citations	186209 28 h-index	233338 45 g-index
48 all docs	48 docs citations	48 times ranked	1482 citing authors

#	Article	IF	Citations
1	Micro Xâ€ray diffraction and elemental study on Alâ€tobermorite formation in aged modern concrete. Journal of the American Ceramic Society, 2022, 105, 6924-6937.	1.9	1
2	Effects of heating and drying on the strength and stiffness of high-early-strength Portland cement pastes. Cement and Concrete Composites, 2020, 106, 103455.	4.6	12
3	Ionic conductive and photocatalytic properties of cementitious materials: calcium silicate hydrate and calcium aluminoferrite. Journal of Materials Chemistry A, 2020, 8, 15157-15166.	5.2	10
4	Reply to Zhou et al.'s â€œA discussion of the paper â€œDynamic microstructural evaluation of hardened cement paste during first drying monitored by 1H NMR relaxometryâ€â€•. Cement and Concrete Research, 2020, 137, 106219.	4.6	10
5	Characterization of irradiation-induced novel voids in Î±-quartz. AIP Advances, 2020, 10, 125212.	0.6	5
6	Numerical study on the shear failure behavior of RC beams subjected to drying. Nuclear Engineering and Design, 2019, 351, 203-211.	0.8	9
7	Dynamic microstructural evolution of hardened cement paste during first drying monitored by 1H NMR relaxometry. Cement and Concrete Research, 2019, 122, 107-117.	4.6	106
8	Properties of early-age concrete relevant to cracking in massive concrete. Cement and Concrete Research, 2019, 123, 105770.	4.6	119
9	Impact of gamma-ray irradiation on hardened white Portland cement pastes exposed to atmosphere. Cement and Concrete Research, 2018, 108, 59-71.	4.6	41
10	Cavitation of water in hardened cement paste under short-term desorption measurements. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	1.3	43
11	Impact of TiO₂ Nanoparticles on Drying Shrinkage of Hardened Cement Paste. Journal of Advanced Concrete Technology, 2018, 16, 272-281.	0.8	3
12	Fe-oxide concretions formed by interacting carbonate and acidic waters on Earth and Mars. Science Advances, 2018, 4, eaau0872.	4.7	33
13	Role of alcohol-ethylene oxide polymers on the reduction of shrinkage of cement paste. Cement and Concrete Research, 2018, 111, 157-168.	4.6	23
14	A new model for the C-S-H phase formed during the hydration of Portland cements. Cement and Concrete Research, 2017, 97, 95-106.	4.6	136
15	Microstructural changes in white Portland cement paste under the first drying process evaluated by WAXS, SAXS, and USAXS. Cement and Concrete Research, 2017, 91, 24-32.	4.6	56
16	Feedback System of Ion Transfer through Cracks During Deterioration of Mortar Due to Sulfate Attack Evaluated by RBSM-Truss Network Model. Journal of Advanced Concrete Technology, 2017, 15, 610-626.	0.8	13
17	Development of Soundness Assessment Procedure for Concrete Members Affected by Neutron and Gamma-Ray Irradiation. Journal of Advanced Concrete Technology, 2017, 15, 440-523.	0.8	68
18	A Numerical Model for Concrete Strength Change under Neutron and Gamma-ray Irradiation. Journal of Advanced Concrete Technology, 2016, 14, 144-162.	0.8	29

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19	Review of the Current State of Knowledge on the Effects of Radiation on Concrete. Journal of Advanced Concrete Technology, 2016, 14, 368-383.	0.8	57
20	Impact of aggregate properties on the development of shrinkage-induced cracking in concrete under restraint conditions. Cement and Concrete Research, 2016, 85, 82-101.	4.6	39
21	Change in Relative Density of Natural Rock Minerals Due to Electron Irradiation. Journal of Advanced Concrete Technology, 2016, 14, 706-716.	0.8	17
22	Early post-mortem formation of carbonate concretions around tusk-shells over week-month timescales. Scientific Reports, 2015, 5, 14123.	1.6	53
23	Numerical Approach towards Aging Management of Concrete Structures: Material Strength Evaluation in a Massive Concrete Structure under One-Sided Heating. Journal of Advanced Concrete Technology, 2015, 13, 500-527.	0.8	20
24	Influence of mineral composition of siliceous rock on its volume change. Construction and Building Materials, 2015, 94, 701-709.	3.2	39
25	Bimodal behavior of C-S-H interpreted from short-term length change and water vapor sorption isotherms of hardened cement paste. Cement and Concrete Research, 2015, 73, 158-168.	4.6	77
26	Control of cracking in full-scaled columns made of ultra-high-strength concrete. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1627-1643.	1.3	1
27	Mechanism of Change in Splitting Tensile Strength of Concrete during Heating or Drying up to 90Â°C. Journal of Advanced Concrete Technology, 2015, 13, 94-102.	0.8	23
28	Cement Reaction and Resultant Physical Properties of Cement Paste. Journal of Advanced Concrete Technology, 2014, 12, 200-213.	0.8	58
29	Numerical Study on Drying Shrinkage of Concrete Affected by Aggregate Size. Journal of Advanced Concrete Technology, 2014, 12, 279-288.	0.8	37
30	Strain and crack distribution in concrete during drying. Materials and Structures/Materiaux Et Constructions, 2014, 47, 517-532.	1.3	49
31	Strain and thermal expansion coefficients of various cement pastes during hydration at early ages. Materials and Structures/Materiaux Et Constructions, 2014, 47, 27-37.	1.3	16
32	Strength and Young's modulus change in concrete due to long-term drying and heating up to 90Â°C. Cement and Concrete Research, 2014, 66, 48-63.	4.6	99
33	Microstructural and bulk property changes in hardened cement paste during the first drying process. Cement and Concrete Research, 2014, 58, 20-34.	4.6	177
34	Temperature dependence of autogenous shrinkage of silica fume cement pastes with a very low waterâ€“binder ratio. Cement and Concrete Research, 2013, 50, 41-50.	4.6	56
35	Evaluation of Irradiation Effects on Concrete Structure: Background and Preparation of Neutron Irradiation Test. , 2013, , .		16
36	Effect of water-retaining lightweight aggregate on the reduction of thermal expansion coefficient in mortar subject to temperature histories. Cement and Concrete Composites, 2012, 34, 1124-1129.	4.6	12

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37	Stress distribution and crack formation in full-scaled ultra-high strength concrete columns. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1829-1847.	1.3	11
38	FUNDAMENTAL STUDY ON WATER TRANSFER IN PORTLAND CEMENT PASTE. Journal of Structural and Construction Engineering, 2011, 76, 1737-1744.	0.2	9
39	Impact of time-dependant thermal expansion coefficient on the early-age volume changes in cement pastes. Cement and Concrete Research, 2011, 41, 380-391.	4.6	36
40	RATE OF HYDRATION OF ALITE AND BELITE IN PORTLAND CEMENT. Journal of Structural and Construction Engineering, 2010, 75, 681-688.	0.2	15
41	Origin of Drying Shrinkage of Hardened Cement Paste: Hydration Pressure. Journal of Advanced Concrete Technology, 2010, 8, 187-200.	0.8	77
42	Evaluation of water transfer from saturated lightweight aggregate to cement paste matrix by neutron radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 159-162.	0.7	32
43	Quantification of water penetration into concrete through cracks by neutron radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 154-158.	0.7	79
44	Flexural Behavior of Reinforced Recycled Concrete Beams. Journal of Advanced Concrete Technology, 2007, 5, 43-61.	0.8	169
45	Application of Conventionally Recycled Coarse Aggregate to Concrete Structure by Surface Modification Treatment. Journal of Advanced Concrete Technology, 2007, 5, 13-25.	0.8	116
46	Early Age Deformation and Resultant Induced Stress in Expansive High Strength Concrete. Journal of Advanced Concrete Technology, 2004, 2, 155-174.	0.8	45
47	Effect of curing temperature and type of cement on early-age shrinkage of high-performance concrete. Cement and Concrete Research, 2001, 31, 1867-1872.	4.6	185