Hyo-Gyoung Kwak

List of Publications by Year
in descending order

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73	1,224	304743	454955
papers	citations	22 h-index	30 g-index

73	73	73	795
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization of thermally damaged concrete using a nonlinear ultrasonic method. Cement and Concrete Research, 2012, 42, 1438-1446.	11.0	68
2	Long-term behavior of composite girder bridges. Computers and Structures, 2000, 74, 583-599.	4.4	49
3	Bondâ€“slip behavior under monotonic uniaxial loads. Engineering Structures, 2001, 23, 298-309.	5.3	47
4	Implementation of bond-slip effect in analyses of RC frames under cyclic loads using layered section method. Engineering Structures, 2006, 28, 1715-1727.	5.3	47
5	Cracking analysis of RC members using polynomial strain distribution function. Engineering Structures, 2002, 24, 455-468.	5.3	45
6	Structural damage evaluation using genetic algorithm. Journal of Sound and Vibration, 2011, 330, 2772-2783.	3.9	41
7	Wave attenuation measurement technique for nondestructive evaluation of concrete. Nondestructive Testing and Evaluation, 2012, 27, 81-94.	2.1	38
8	Non-structural cracking in RC walls. Cement and Concrete Research, 2006, 36, 749-760.	11.0	35
9	Optimum design of reinforced concrete plane frames based on predetermined section database. CAD Computer Aided Design, 2008, 40, 396-408.	2.7	34
10	Simplified monotonic momentâ€“curvature relation considering fixed-end rotation and axial force effect. Engineering Structures, 2010, 32, 69-79.	5.3	34
11	An integrated genetic algorithm complemented with direct search for optimum design of RC frames. CAD Computer Aided Design, 2009, 41, 490-500.	2.7	32
12	Effects of the slab casting sequences and the drying shrinkage of concrete slabs on the short-term and long-term behavior of composite steel box girder bridges. Part 1. Engineering Structures, 2000, 22, 1453-1466.	5.3	31
13	Nonlinear analysis of RC shear walls considering tension-stiffening effect. Computers and Structures, 2001, 79, 499-517.	4.4	30
14	Effects of post-fire curing conditions on the restoration of material properties of fire-damaged concrete. Construction and Building Materials, 2015, 99, 90-98.	7.2	30
15	Nondestructive Evaluation of Elastic Properties of Concrete Using Simulation of Surface Waves. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 611-624.	9.8	29
16	Numerical analysis of time-dependent behavior of pre-cast pre-stressed concrete girder bridges. Construction and Building Materials, 2002, 16, 49-63.	7.2	26
17	Numerical models for prestressing tendons in containment structures. Nuclear Engineering and Design, 2006, 236, 1061-1080.	1.7	26
18	Nonlinear resonance vibration method to estimate the damage level on heat-exposed concrete. Fire Safety Journal, 2014, 69, 36-42.	3.1	26

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19	Material nonlinear analysis of RC shear walls subject to monotonic loadings. Engineering Structures, 2004, 26, 1517-1533.	5.3	25
20	Nonlinear Analysis of RC Beam Subject to Cyclic Loading. Journal of Structural Engineering, 2001, 127, 1436-1444.	3.4	24
21	Ultimate resisting capacity of slender RC columns. Computers and Structures, 2004, 82, 901-915.	4.4	24
22	Effect of warping in geometric nonlinear analysis of spatial beams. Journal of Constructional Steel Research, 2001, 57, 729-751.	3.9	23
23	An improved design formula for a biaxially loaded slender RC column. Engineering Structures, 2010, 32, 226-237.	5.3	23
24	Effects of the slab casting sequences and the drying shrinkage of concrete slabs on the short-term and long-term behavior of composite steel box girder bridges. Part 2. Engineering Structures, 2000, 22, 1467-1480.	5.3	21
25	Nonlinear analysis of containment structure based on modified tendon model. Annals of Nuclear Energy, 2016, 92, 113-126.	1.8	18
26	Characterization of the crack depth in concrete using self-compensating frequency response function. NDT and E International, 2010, 43, 375-384.	3.7	17
27	FE model to simulate bond-slip behavior in composite concrete beam bridges. Computers and Structures, 2010, 88, 973-984.	4.4	17
28	Evaluation of residual tensile strength of fire-damaged concrete using a non-linear resonance vibration method. Magazine of Concrete Research, 2015, 67, 235-246.	2.0	16
29	Material nonlinear analysis of RC shear walls subject to cyclic loadings. Engineering Structures, 2004, 26, 1423-1436.	5.3	15
30	Ultrasonic Wave Reflection and Resonant Frequency Measurements for Monitoring Early-Age Concrete. Journal of Materials in Civil Engineering, 2009, 21, 476-483.	2.9	15
31	Characterization of stress-dependent ultrasonic nonlinearity variation in concrete under cyclic loading using nonlinear resonant ultrasonic method. Construction and Building Materials, 2017, 145, 272-282.	7.2	15
32	An improved calibration method of the K&C model for modeling steel-fiber reinforced concrete. Composite Structures, 2021, 269, 114010.	5.8	15
33	Nonlinear dynamic analysis of RC frames using cyclic moment-curvature relation. Structural Engineering and Mechanics, 2004, 17, 357-378.	1.0	15
34	An improved criterion to minimize FE mesh-dependency in concrete structures under high strain rate conditions. International Journal of Impact Engineering, 2015, 86, 84-95.	5.0	14
35	Three-dimensional equivalent static analysis for design of submerged floating tunnel. Marine Structures, 2021, 80, 103080.	3.8	14
36	Damage characteristics of high-performance fiber-reinforced cement composites panels subjected to projectile impact. International Journal of Mechanical Sciences, 2022, 214, 106919.	6.7	14

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37	Cracking behavior of RC panels subject to biaxial tensile stresses. Computers and Structures, 2006, 84, 305-317.	4.4	13
38	effect of slender RC columns under seismic load. Engineering Structures, 2007, 29, 3121-3133.	5.3	13
39	A strain rate dependent orthotropic concrete material model. International Journal of Impact Engineering, 2017, 103, 211-224.	5.0	13
40	Evaluation of nonlinear behavior and resisting capacity of reinforced concrete columns subjected to blast loads. Engineering Failure Analysis, 2018, 93, 268-288.	4.0	13
41	Non-structural cracking in RC walls: Part II. Quantitative prediction model. Cement and Concrete Research, 2006, 36, 761-775.	11.0	12
42	Shrinkage cracking at interior supports of continuous pre-cast pre-stressed concrete girder bridges. Construction and Building Materials, 2002, 16, 35-47.	7.2	11
43	Influence of Portland cement and ground-granulated blast-furnace slag on bleeding of fresh mix. Construction and Building Materials, 2015, 80, 132-140.	7.2	11
44	Blast Analysis of RC Beams Based on Moment-Curvature Relationship Considering Fixed-End Rotation. Journal of Structural Engineering, 2017, 143, .	3.4	11
45	Blast and Impact Analyses of RC Beams Considering Bond-Slip Effect and Loading History of Constituent Materials. International Journal of Concrete Structures and Materials, 2018, 12, .	3.2	11
46	Rayleigh wave velocity computation using principal wavelet-component analysis. NDT and E International, 2011, 44, 47-56.	3.7	10
47	Finite element analyses and design of post-tensioned anchorage zone in ultra-high-performance concrete beams. Advances in Structural Engineering, 2019, 22, 323-336.	2.4	10
48	Evaluation of post-fire residual resistance of RC columns considering non-mechanical deformations. Fire Safety Journal, 2018, 100, 128-139.	3.1	9
49	Improved FE model to simulate interfacial bond-slip behavior in composite beams under cyclic loadings. Computers and Structures, 2013, 125, 164-176.	4.4	8
50	A numerical model for considering the bond-slip effect in axially loaded circular concrete-filled tube columns. Advances in Structural Engineering, 2018, 21, 1923-1935.	2.4	8
51	Numerical simulations of blast responses for SFRC slabs using an orthotropic model. Engineering Structures, 2021, 238, 112150.	5.3	8
52	Air voids size distribution determined by ultrasonic attenuation. Construction and Building Materials, 2013, 47, 502-510.	7.2	7
53	A numerical tension-stiffening model for ultra high strength fiber-reinforced concrete beams. Computers and Concrete, 2011, 8, 1-22.	0.7	7
54	Determination of design moments in bridges constructed with a movable scaffolding system (MSS). Computers and Structures, 2006, 84, 2141-2150.	4.4	6

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55	Experimental characterization of ultrasonic nonlinearity in concrete under cyclic change of prestressing force using Nonlinear Resonant Ultrasonic Spectroscopy. Construction and Building Materials, 2017, 157, 700-707.	7.2	6
56	Feasibility assessment for design of a circular one-cell concrete submerged floating tunnel structure. Ocean Engineering, 2022, 245, 110481.	4.3	6
57	FE analysis of circular CFT columns considering bond-slip effect: Evaluation of ultimate strength. Journal of Constructional Steel Research, 2018, 145, 266-276.	3.9	5
58	Nonlinear Ultrasonic Method to Evaluate Residual Mechanical Properties of Thermally Damaged Concrete. ACI Materials Journal, 2014, 111, .	0.2	5
59	Numerical approach for concrete carbonation considering moisture diffusion. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	3.1	4
60	A strain rate dependent nonlinear elastic orthotropic model for SFRC structures. Journal of Building Engineering, 2021, 42, 102466.	3.4	4
61	A FE model to evaluate the resisting capacity of RC beams and columns under blast loading based on P-I diagram. International Journal of Impact Engineering, 2022, 161, 104113.	5.0	4
62	Live load design moments for parking garage slabs considering support deflection effect. Computers and Structures, 2001, 79, 1735-1751.	4.4	3
63	Inelastic orthotropic model for blast analysis of RC slabs. International Journal of Impact Engineering, 2020, 140, 103545.	5.0	3
64	Moment-curvature approach for blast analysis of RC frames with multitudinous members. Journal of Building Engineering, 2021, 42, 102463.	3.4	3
65	Tension stiffening effect of RC panels subject to biaxial stresses. Computers and Concrete, 2004, 1, 417-432.	0.7	3
66	FE analysis of circular CFT columns considering bond-slip effect: A numerical formulation. Mechanical Sciences, 2018, 9, 245-257.	1.0	2
67	Optimization of an RC frame structure based on a plastic analysis and direct search of a section database. Journal of Building Engineering, 2022, 48, 103959.	3.4	2
68	Finite-Element Model to Evaluate Nonlinear Behavior of Posttensioned Composite Beams with Partial Shear Connection. Journal of Structural Engineering, 2015, 141, 04014205.	3.4	0
69	08.52: Numerical modeling of circular CFT columns with experimental verification. Ce/Papers, 2017, 1, 2267-2272.	0.3	0
70	A simplified equation to determine stud spacing in SCP member. Journal of Constructional Steel Research, 2021, 177, 106457.	3.9	0
71	Cracking behavior of RC shear walls subject to cyclic loadings. Computers and Concrete, 2004, 1, 77-98.	0.7	0
72	Numerical Approach for a Partial CFST Column using an Improved Bond-Slip Model. Journal of the Computational Structural Engineering Institute of Korea, 2020, 33, 153-158.	0.4	0

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73	Numerical Model to Evaluate Resistance against Direct Shear Failure and Bending Failure of Reinforced Concrete Members Subjected to Blast Loading. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 393-401.	0.4	0