

Kyoungsoo Park

List of Publications by Year in descending order

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1965
citing authors

#	ARTICLE	IF	CITATIONS
1	Recursive aggregate segmentation by erosion and reconstitution (RASER) to characterize concrete microstructure using complementarity of X-ray and neutron computed tomography. Cement and Concrete Composites, 2024, 148, 105437.	10.5	1
2	Gurson-Cohesive modeling (GCM) for 3D ductile fracture simulation. International Journal of Plasticity, 2024, 175, 103914.	8.7	0
3	Mechanical property evaluation of 3D multi-phase cement paste microstructures reconstructed using generative adversarial networks. Cement and Concrete Composites, 2024, 152, 105646.	10.5	0
4	Numerical Modeling of Hydrogen Embrittlement-induced Ductile Fracture Using a Gurson-Cohesive Model (GCM) and Hydrogen Diffusion. Journal of the Computational Structural Engineering Institute of Korea, 2024, 37, 267-274.	0.4	0
5	Assessment of Speckle-Pattern Quality using Deep-Learning-Based CNN. Experimental Mechanics, 2023, 63, 163-176.	2.2	7
6	Virtual element method for mixed-mode cohesive fracture simulation with element split and domain integral. International Journal of Fracture, 2023, 240, 51-70.	2.2	2
7	Evaluation of stress intensity factor for arbitrary and low-quality meshes using virtual grid-based stress recovery (VGSR). Engineering Fracture Mechanics, 2022, 263, 108172.	4.3	4
8	Computed tomography (CT) Image-based analysis of concrete microstructure using virtual element method. Composite Structures, 2022, 299, 115937.	5.9	8
9	Mechanical behavior comparison of single and multiple phase models for cement paste using micro-CT images and nanoindentation. Construction and Building Materials, 2022, 342, 127938.	7.2	12
10	B-bar virtual element method for nearly incompressible and compressible materials. Meccanica, 2021, 56, 1423-1439.	2.0	13
11	Computational Morphogenesis: Morphologic constructions using polygonal discretizations. International Journal for Numerical Methods in Engineering, 2021, 122, 25-52.	2.8	3
12	Application of cohesive zone model to large scale circumferential through-wall and 360° surface cracked pipes under static and dynamic loadings. Nuclear Engineering and Technology, 2021, 53, 974-987.	2.3	5
13	Numerical evaluation of long-term neutron irradiation damage on reinforced concrete (RC) members. Construction and Building Materials, 2021, 302, 124252.	7.2	3
14	Reconstruction of concrete microstructure using complementarity of X-ray and neutron tomography. Cement and Concrete Research, 2021, 148, 106540.	10.9	15
15	Numerical recipes for elastodynamic virtual element methods with explicit time integration. International Journal for Numerical Methods in Engineering, 2020, 121, 1-31.	2.8	29
16	Mixed-mode fatigue crack growth using cohesive zone modeling. Engineering Fracture Mechanics, 2020, 240, 107234.	4.3	15
17	Multiscale dynamic fracture analysis of composite materials using adaptive microstructure modeling. International Journal for Numerical Methods in Engineering, 2020, 121, 5719-5741.	2.8	9
18	Mechanical Behavior of Fine Recycled Concrete Aggregate Concrete with the Mineral Admixtures. Materials, 2020, 13, 2264.	3.0	18

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19	Generalized Finite Element Formulation of Fiber Beam Elements for Distributed Plasticity in Multiple Regions. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 146-163.	10.4	6
20	Removing mesh bias in mixed-mode cohesive fracture simulation with stress recovery and domain integral. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 1047-1070.	2.8	15
21	Investigation of irradiation effects on microstructure of cement paste using small-angle neutron scattering. <i>Cement and Concrete Research</i> , 2019, 123, 105791.	10.9	4
22	On nonconvex meshes for elastodynamics using virtual element methods with explicit time integration. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 356, 669-684.	6.7	43
23	Mechanical Behavior of Recycled Fine Aggregate Concrete with High Slump Property in Normal- and High-Strength. <i>International Journal of Concrete Structures and Materials</i> , 2019, 13, .	3.2	25
24	Cohesive frictional-contact model for dynamic fracture simulations under compression. <i>International Journal of Solids and Structures</i> , 2018, 144-145, 86-99.	2.7	22
25	Dilation behavior of normal strength concrete confined by FRP wire jackets. <i>Construction and Building Materials</i> , 2018, 190, 728-739.	7.2	7
26	Punching Shear Behavior of Two-Way Concrete Slabs Reinforced with Glass-Fiber-Reinforced Polymer (GFRP) Bars. <i>Polymers</i> , 2018, 10, 893.	4.5	31
27	On the size effect of interfacial fracture between concrete and fiber reinforced polymer. <i>Cement and Concrete Composites</i> , 2018, 93, 99-106.	10.5	5
28	Topographic Amplification Factors for Japan Using 2D Finite Element Analysis. , 2018, , .		2
29	Vibration tests of precompressed rubber springs and a flag-shaped smart damper. <i>Engineering Structures</i> , 2017, 132, 372-382.	5.3	16
30	Assessment of speckle-pattern quality in digital image correlation based on gray intensity and speckle morphology. <i>Optics and Lasers in Engineering</i> , 2017, 91, 62-72.	3.8	70
31	Estimation of Compressive Strength of High Strength Concrete Using Non-Destructive Technique and Concrete Core Strength. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1249.	2.6	24
32	Design strength evaluation of RC beams under radiation environments for nuclear power plants. <i>Nuclear Engineering and Design</i> , 2016, 301, 101-110.	1.7	5
33	Assessment of cohesive traction-separation relationships in ABAQUS: A comparative study. <i>Mechanics Research Communications</i> , 2016, 78, 71-78.	1.9	64
34	Viscoelastic Properties of Fresh Cement Paste to Study the Flow Behavior. <i>International Journal of Concrete Structures and Materials</i> , 2016, 10, 65-74.	3.2	39
35	Effect of neutron irradiation on response of reinforced concrete members for nuclear power plants. <i>Nuclear Engineering and Design</i> , 2016, 310, 15-26.	1.7	14
36	Deterministic and Probabilistic Investigation on Multiple Crack Interactions in a Semi-Infinite Domain. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-9.	1.2	4

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37	Convergence of fracture process zone size in cohesive zone modeling. Applied Mathematical Modelling, 2015, 39, 5828-5836.	4.3	41
38	Prediction of interfacial fracture between concrete and fiber reinforced polymer (FRP) by using cohesive zone modeling. Cement and Concrete Composites, 2015, 63, 122-131.	10.5	22
39	Effect of Confining Pressure Due to External Jacket of Steel Plate or Shape Memory Alloy Wire on Bond Behavior Between Concrete and Steel Reinforcing Bars. Journal of Nanoscience and Nanotechnology, 2014, 14, 9657-9661.	0.9	2
40	Effect of steel wrapping jackets on the bond strength of concrete and the lateral performance of circular RC columns. Engineering Structures, 2013, 48, 43-54.	5.3	24
41	External jacket of FRP wire for confining concrete and its advantages. Engineering Structures, 2013, 56, 555-566.	5.3	33
42	Scalable parallel dynamic fracture simulation using an extrinsic cohesive zone model. Computer Methods in Applied Mechanics and Engineering, 2013, 266, 144-161.	6.7	13
43	Computational implementation of the PPR potential-based cohesive model in ABAQUS: Educational perspective. Engineering Fracture Mechanics, 2012, 93, 239-262.	4.3	182
44	Adaptive mesh refinement and coarsening for cohesive zone modeling of dynamic fracture. International Journal for Numerical Methods in Engineering, 2012, 92, 1-35.	2.8	72
45	Comparing the cyclic behavior of concrete cylinders confined by shape memory alloy wire or steel jackets. Smart Materials and Structures, 2011, 20, 094008.	3.4	23
46	Cohesive Zone Models: A Critical Review of Traction-Separation Relationships Across Fracture Surfaces. Applied Mechanics Reviews, 2011, 64, .	10.1	522
47	Thermal Cracking Prediction Model and Software for Asphalt Pavements. , 2011, , .		10
48	Parallel computing of wave propagation in three dimensional functionally graded media. Mechanics Research Communications, 2011, 38, 431-436.	1.9	4
49	Inducing recovery stress of NiTiNb SMA wires using heat of hydration for confining concrete. Journal of Intelligent Material Systems and Structures, 2011, 22, 1949-1957.	2.6	4
50	Adaptive dynamic cohesive fracture simulation using nodal perturbation and edgeâ€swap operators. International Journal for Numerical Methods in Engineering, 2010, 84, 1303-1343.	2.8	44
51	On the constitutive relation of materials with microstructure using a potential-based cohesive model for interface interaction. Engineering Fracture Mechanics, 2010, 77, 1153-1174.	4.3	26
52	Cohesive fracture model for functionally graded fiber reinforced concrete. Cement and Concrete Research, 2010, 40, 956-965.	10.9	137
53	Integration of singular enrichment functions in the generalized/extended finite element method for threeâ€dimensional problems. International Journal for Numerical Methods in Engineering, 2009, 78, 1220-1257.	2.8	79
54	A unified potential-based cohesive model of mixed-mode fracture. Journal of the Mechanics and Physics of Solids, 2009, 57, 891-908.	4.9	378

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55	Determination of the kink point in the bilinear softening model for concrete. Engineering Fracture Mechanics, 2008, 75, 3806-3818.	4.3	81
56	Fracture Behavior and Properties of Functionally Graded Fiber-Reinforced Concrete. AIP Conference Proceedings, 2008, , .	0.2	6
57	Concrete Fracture Prediction Using Virtual Internal Bond Model with Modified Morse Functional Potential. AIP Conference Proceedings, 2008, , .	0.2	2
58	Virtual Internal Pair-Bond Model for Quasi-Brittle Materials. Journal of Engineering Mechanics - ASCE, 2008, 134, 856-866.	3.1	11
59	Fracture Behavior of Functionally Graded Concrete Materials for Rigid Pavements. Transportation Research Record, 2007, 2037, 40-49.	1.8	69
60	Concrete fracture prediction using bilinear softening. Cement and Concrete Composites, 2007, 29, 300-312.	10.5	174
61	Models for topographic ground motion amplification based on finite element analyses considering topographic features and ground motions in Japan. Natural Hazards, 0, , .	3.4	0