

Jeong-Hoon Song

List of Publications by Year in descending order

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64
papers

3,365
citations

236833

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67
all docs

67
docs citations

67
times ranked

2052
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong-form meshfree collocation method for multibody thermomechanical contact. Engineering With Computers, 2023, 39, 89-108.	3.5	3
2	Strong form meshfree collocation method for frictional contact between a rigid pile and an elastic foundation. Engineering With Computers, 2023, 39, 791-807.	3.5	2
3	A Strong Form Meshfree Collocation Method: Engineering Applications Including Frictional Contact. , 2022, , 257-265.		0
4	Interface Immersed Particle Difference Method for weak discontinuity in elliptic boundary value problems. Computer Methods in Applied Mechanics and Engineering, 2021, 375, 113650.	3.4	8
5	Multiphysics Integrated Computational Materials Engineering Linking Additive Manufacturing Process Parameters with Part Performance. , 2021, , 293-338.		2
6	A Nitsche-type variational formulation for the shape deformation of a single component vesicle. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112661.	3.4	2
7	A general mass lumping scheme for the variants of the extended finite element method. International Journal for Numerical Methods in Engineering, 2020, 121, 2262-2284.	1.5	11
8	Extended finite element method. , 2020, , 29-151.		0
9	Phantom node method. , 2020, , 153-160.		0
10	Extended meshfree methods. , 2020, , 161-313.		6
11	Fracture in plates and shells. , 2020, , 359-435.		0
12	Multiscale methods for fracture. , 2020, , 471-519.		0
13	A short overview of alternatives for fracture. , 2020, , 521-579.		0
14	Extended IFC-based strong form meshfree collocation analysis of a bridge structure. Automation in Construction, 2020, 119, 103364.	4.8	14
15	Nonnodal Extended Finite-Element Method for Crack Modeling with Four-Node Quadrilateral Elements. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	6
16	Strong-Form Collocation Method for Solidification and Mechanical Analysis of Polycrystalline Materials. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019082.	1.6	16
17	A strong form meshfree collocation method for frictional contact on a rigid obstacle. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112597.	3.4	18
18	Strong form-based meshfree collocation method for wind-driven ocean circulation. Computer Methods in Applied Mechanics and Engineering, 2019, 351, 404-421.	3.4	18

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19	New strong formulation for material nonlinear problems based on the particle difference method. Engineering Analysis With Boundary Elements, 2019, 98, 310-327.	2.0	29
20	Fast and accurate two-field reduced basis approximation for parametrized thermoelasticity problems. Finite Elements in Analysis and Design, 2018, 141, 96-118.	1.7	7
21	Phase field simulations of coupled microstructure solidification problems via the strong form particle difference method. International Journal of Mechanics and Materials in Design, 2018, 14, 491-509.	1.7	27
22	A linear complete extended finite element method for dynamic fracture simulation with non-nodal enrichments. Finite Elements in Analysis and Design, 2018, 152, 27-45.	1.7	15
23	A numerical method for dynamic fracture using the extended finite element method with non-nodal enrichment parameters. International Journal of Impact Engineering, 2018, 121, 63-76.	2.4	17
24	Computational modeling of material deterioration at various length scales. International Journal of Fracture, 2017, 203, 1-2.	1.1	0
25	On Investigating the Thermomechanical Properties of Cross-linked Epoxy Via Molecular Dynamics Analysis. Nanoscale and Microscale Thermophysical Engineering, 2017, 21, 8-25.	1.4	28
26	Towards Computational Synthesis of Microstructural Crystalline Morphologies for Additive Manufacturing Applications. , 2017, . .		1
27	Bridging the multi phase-field and molecular dynamics models for the solidification of nano-crystals. Journal of Computational Science, 2017, 20, 187-197.	1.5	20
28	An hp-proper orthogonal decompositionâ€“moving least squares approach for molecular dynamics simulation. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 548-575.	3.4	18
29	Explicit phantom paired shell element approach for crack branching and impact damage prediction of aluminum structures. International Journal of Impact Engineering, 2016, 87, 28-43.	2.4	14
30	Dynamics response of polyethylene polymer nanocomposites to shock wave loading. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1292-1302.	2.4	28
31	Coarse-grained molecular dynamics simulations of epoxy resin during the curing process. Computational Materials Science, 2015, 107, 24-32.	1.4	22
32	Heat flux expressions that satisfy the conservation laws in atomistic system involving multibody potentials. Journal of Computational Physics, 2015, 294, 191-207.	1.9	11
33	Large deformation mechanism of glassy polyethylene polymer nanocomposites: Coarse grain molecular dynamics study. Computational Materials Science, 2015, 96, 485-494.	1.4	16
34	Mechanical properties of graphene nanoribbons with disordered edges. Computational Materials Science, 2015, 96, 10-19.	1.4	49
35	On computing stress in polymer systems involving multi-body potentials from molecular dynamics simulation. Journal of Chemical Physics, 2014, 141, 054108.	1.2	14
36	Extended particle difference method for weak and strong discontinuity problems: part II. Formulations and applications for various interfacial singularity problems. Computational Mechanics, 2014, 53, 1105-1128.	2.2	46

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37	Extended particle difference method for weak and strong discontinuity problems: part I. Derivation of the extended particle derivative approximation for the representation of weak and strong discontinuities. Computational Mechanics, 2014, 53, 1087-1103.	2.2	55
38	Extended particle difference method for moving boundary problems. Computational Mechanics, 2014, 54, 723-743.	2.2	36
39	An enhanced bridging domain method for linking atomistic and continuum domains. Finite Elements in Analysis and Design, 2014, 92, 36-49.	1.7	19
40	Multiscale failure analysis with coarse-grained micro cracks and damage. Theoretical and Applied Fracture Mechanics, 2014, 72, 100-109.	2.1	21
41	Explicit Dynamic Finite Element Method for Failure with Smooth Fracture Energy Dissipations. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	1
42	Explicit Dynamic Finite Element Method for Predicting Implosion/Explosion Induced Failure of Shell Structures. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	2
43	A TWO-SCALE STRONG DISCONTINUITY APPROACH FOR EVOLUTION OF SHEAR BANDS UNDER DYNAMIC IMPACT LOADS. International Journal for Multiscale Computational Engineering, 2013, 11, 543-563.	0.8	18
44	Crack initiation and path selection in brittle specimens: A novel experimental method and computations. Engineering Fracture Mechanics, 2012, 89, 65-74.	2.0	6
45	Extended finite element method for dynamic fracture of piezo-electric materials. Engineering Fracture Mechanics, 2012, 92, 19-31.	2.0	59
46	Phantom-node method for shell models with arbitrary cracks. Computers and Structures, 2012, 92-93, 242-256.	2.4	232
47	Immersed particle method for fluid-structure interaction. International Journal for Numerical Methods in Engineering, 2010, 81, 48-71.	1.5	340
48	Time dependent crack tip enrichment for dynamic crack propagation. International Journal of Fracture, 2010, 162, 33-49.	1.1	58
49	Coarse-graining of multiscale crack propagation. International Journal for Numerical Methods in Engineering, 2010, 81, 537-563.	1.5	117
50	Cracking node method for dynamic fracture with finite elements. International Journal for Numerical Methods in Engineering, 2009, 77, 360-385.	1.5	118
51	Element-local level set method for three-dimensional dynamic crack growth. International Journal for Numerical Methods in Engineering, 2009, 80, 1520-1543.	1.5	60
52	Simulations of instability in dynamic fracture by the cracking particles method. Engineering Fracture Mechanics, 2009, 76, 730-741.	2.0	143
53	Multiscale aggregating discontinuities method for micro-macro failure of composites. Composites Part B: Engineering, 2009, 40, 417-426.	5.9	39
54	Dynamic Fracture of Shells Subjected to Impulsive Loads. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	70

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55	Time dependent crack tip enrichment for dynamic crack propagation. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 33-49.	0.1	1
56	A comparative study on finite element methods for dynamic fracture. Computational Mechanics, 2008, 42, 239-250.	2.2	339
57	Multiscale aggregating discontinuities: A method for circumventing loss of material stability. International Journal for Numerical Methods in Engineering, 2008, 73, 869-894.	1.5	199
58	On Applications of XFEM to Dynamic Fracture and Dislocations. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2007, , 155-170.	0.1	0
59	Analysis of fracture in thin shells by overlapping paired elements. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5343-5360.	3.4	113
60	A method for dynamic crack and shear band propagation with phantom nodes. International Journal for Numerical Methods in Engineering, 2006, 67, 868-893.	1.5	628
61	A finite-strain quadrilateral shell element based on discrete Kirchhoff-Love constraints. International Journal for Numerical Methods in Engineering, 2005, 64, 1166-1206.	1.5	58
62	Combined extended and superimposed finite element method for cracks. International Journal for Numerical Methods in Engineering, 2004, 59, 1119-1136.	1.5	65
63	A method for growing multiple cracks without remeshing and its application to fatigue crack growth. Modelling and Simulation in Materials Science and Engineering, 2004, 12, 901-915.	0.8	92
64	Strong-form meshfree collocation method for non-equilibrium solidification of multi-component alloy. Engineering With Computers, 0, , 1.	3.5	4