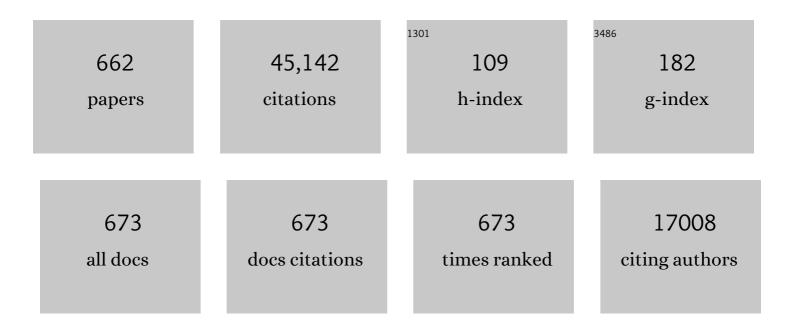
Timon Rabczuk

List of Publications by Year in descending order

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TIMON PARCZUK

#	Article	IF	CITATIONS
1	Cracking particles: a simplified meshfree method for arbitrary evolving cracks. International Journal for Numerical Methods in Engineering, 2004, 61, 2316-2343.	2.8	1,272
2	Meshless methods: A review and computer implementation aspects. Mathematics and Computers in Simulation, 2008, 79, 763-813.	4.4	944
3	A three-dimensional large deformation meshfree method for arbitrary evolving cracks. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 2777-2799.	6.6	913
4	An energy approach to the solution of partial differential equations in computational mechanics via machine learning: Concepts, implementation and applications. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112790.	6.6	799
5	A simple and robust three-dimensional cracking-particle method without enrichment. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2437-2455.	6.6	725
6	Dualâ€horizon peridynamics. International Journal for Numerical Methods in Engineering, 2016, 108, 1451-1476.	2.8	545
7	A software framework for probabilistic sensitivity analysis for computationally expensive models. Advances in Engineering Software, 2016, 100, 19-31.	3.8	514
8	Dual-horizon peridynamics: A stable solution to varying horizons. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 762-782.	6.6	502
9	Isogeometric analysis: An overview and computer implementation aspects. Mathematics and Computers in Simulation, 2015, 117, 89-116.	4.4	478
10	A computational library for multiscale modeling of material failure. Computational Mechanics, 2014, 53, 1047-1071.	4.0	437
11	Artificial Neural Network Methods for the Solution of Second Order Boundary Value Problems. Computers, Materials and Continua, 2019, 59, 345-359.	1.9	437
12	A meshfree thin shell method for non-linear dynamic fracture. International Journal for Numerical Methods in Engineering, 2007, 72, 524-548.	2.8	429
13	Stable particle methods based on Lagrangian kernels. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1035-1063.	6.6	400
14	Immersed particle method for fluid–structure interaction. International Journal for Numerical Methods in Engineering, 2010, 81, 48-71.	2.8	340
15	Rotation free isogeometric thin shell analysis using PHT-splines. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3410-3424.	6.6	335
16	Molecular dynamics simulations of single-layer molybdenum disulphide (MoS2): Stillinger-Weber parametrization, mechanical properties, and thermal conductivity. Journal of Applied Physics, 2013, 114,	2.5	331
17	State of the Art of Machine Learning Models in Energy Systems, a Systematic Review. Energies, 2019, 12, 1301.	3.1	319
18	Stochastic analysis of the fracture toughness of polymeric nanoparticle composites using polynomial chaos expansions. International Journal of Fracture, 2017, 206, 215-227.	2.2	315

#	Article	IF	CITATIONS
19	Three-dimensional crack initiation, propagation, branching and junction in non-linear materials by an extended meshfree method without asymptotic enrichment. Engineering Fracture Mechanics, 2008, 75, 943-960.	4.3	314
20	A three-dimensional meshfree method for continuous multiple-crack initiation, propagation and junction in statics and dynamics. Computational Mechanics, 2007, 40, 473-495.	4.0	312
21	On three-dimensional modelling of crack growth using partition of unity methods. Computers and Structures, 2010, 88, 1391-1411.	4.4	311
22	Transfer learning enhanced physics informed neural network for phase-field modeling of fracture. Theoretical and Applied Fracture Mechanics, 2020, 106, 102447.	4.7	308
23	Exceptional piezoelectricity, high thermal conductivity and stiffness and promising photocatalysis in two-dimensional MoSi2N4 family confirmed by first-principles. Nano Energy, 2021, 82, 105716.	16.0	303
24	An extended isogeometric thin shell analysis based on Kirchhoff–Love theory. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 265-291.	6.6	301
25	A two-dimensional Isogeometric Boundary Element Method for elastostatic analysis. Computer Methods in Applied Mechanics and Engineering, 2012, 209-212, 87-100.	6.6	295
26	A Deep Collocation Method for the Bending Analysis of Kirchhoff Plate. Computers, Materials and Continua, 2019, 59, 433-456.	1.9	295
27	A level-set based IGA formulation for topology optimization of flexoelectric materials. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 239-258.	6.6	286
28	A smoothed finite element method for plate analysis. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1184-1203.	6.6	282
29	NURBS-based finite element analysis of functionally graded plates: Static bending, vibration, buckling and flutter. Composite Structures, 2013, 99, 309-326.	5.8	277
30	A Meshfree Method based on the Local Partition of Unity for Cohesive Cracks. Computational Mechanics, 2007, 39, 743-760.	4.0	272
31	A geometrically non-linear three-dimensional cohesive crack method for reinforced concrete structures. Engineering Fracture Mechanics, 2008, 75, 4740-4758.	4.3	272
32	Phase-field modeling of fracture in linear thin shells. Theoretical and Applied Fracture Mechanics, 2014, 69, 102-109.	4.7	269
33	Phase field modeling of quasi-static and dynamic crack propagation: COMSOL implementation and case studies. Advances in Engineering Software, 2018, 122, 31-49.	3.8	267
34	lsogeometric analysis of laminated composite and sandwich plates using a new inverse trigonometric shear deformation theory. European Journal of Mechanics, A/Solids, 2014, 43, 89-108.	3.7	260
35	Phase field modelling of crack propagation, branching and coalescence in rocks. Theoretical and Applied Fracture Mechanics, 2018, 96, 174-192.	4.7	260
36	A phase-field modeling approach of fracture propagation in poroelastic media. Engineering Geology, 2018, 240, 189-203.	6.3	259

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37	Static, free vibration, and buckling analysis of laminated composite Reissner–Mindlin plates using NURBSâ€based isogeometric approach. International Journal for Numerical Methods in Engineering, 2012, 91, 571-603.	2.8	257
38	Damage and fracture algorithm using the screened Poisson equation and local remeshing. Engineering Fracture Mechanics, 2016, 158, 116-143.	4.3	257
39	Strain smoothing in FEM and XFEM. Computers and Structures, 2010, 88, 1419-1443.	4.4	255
40	Fracture properties prediction of clay/epoxy nanocomposites with interphase zones using a phase field model. Engineering Fracture Mechanics, 2018, 188, 287-299.	4.3	249
41	Application of silicene, germanene and stanene for Na or Li ion storage: A theoretical investigation. Electrochimica Acta, 2016, 213, 865-870.	5.2	245
42	Nonlinear bending of functionally graded porous micro/nano-beams reinforced with graphene platelets based upon nonlocal strain gradient theory. Composite Structures, 2018, 186, 68-78.	5.8	233
43	Phantom-node method for shell models with arbitrary cracks. Computers and Structures, 2012, 92-93, 242-256.	4.4	232
44	Adaptivity for structured meshfree particle methods in 2D and 3D. International Journal for Numerical Methods in Engineering, 2005, 63, 1559-1582.	2.8	230
45	Finite strain fracture of plates and shells with configurational forces and edge rotations. International Journal for Numerical Methods in Engineering, 2013, 94, 1099-1122.	2.8	228
46	Phase-field analysis of finite-strain plates and shells including element subdivision. Computer Methods in Applied Mechanics and Engineering, 2016, 312, 322-350.	6.6	223
47	A multi-material level set-based topology optimization of flexoelectric composites. Computer Methods in Applied Mechanics and Engineering, 2018, 332, 47-62.	6.6	223
48	Isogeometric analysis using polynomial splines over hierarchical T-meshes for two-dimensional elastic solids. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1892-1908.	6.6	221
49	COVID-19 Outbreak Prediction with Machine Learning. Algorithms, 2020, 13, 249.	2.1	218
50	Borophene as an anode material for Ca, Mg, Na or Li ion storage: A first-principle study. Journal of Power Sources, 2016, 329, 456-461.	7.8	211
51	A new crack tip element for the phantomâ€node method with arbitrary cohesive cracks. International Journal for Numerical Methods in Engineering, 2008, 75, 577-599.	2.8	210
52	Isogeometric analysis of large-deformation thin shells using RHT-splines for multiple-patch coupling. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 1157-1178.	6.6	210
53	A Survey of Deep Learning Techniques: Application in Wind and Solar Energy Resources. IEEE Access, 2019, 7, 164650-164666.	4.2	210
54	Element-wise fracture algorithm based on rotation of edges. Engineering Fracture Mechanics, 2013, 110, 113-137.	4.3	209

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55	Simulation of high velocity concrete fragmentation using SPH/MLSPH. International Journal for Numerical Methods in Engineering, 2003, 56, 1421-1444.	2.8	208
56	Efficient coarse graining in multiscale modeling of fracture. Theoretical and Applied Fracture Mechanics, 2014, 69, 126-143.	4.7	205
57	Abaqus implementation of phase-field model for brittle fracture. Computational Materials Science, 2015, 96, 472-484.	3.0	203
58	Phase-field modeling of fluid-driven dynamic cracking in porous media. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 169-198.	6.6	202
59	A smoothed finite element method for shell analysis. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 165-177.	6.6	199
60	An adaptive multiscale method for quasi-static crack growth. Computational Mechanics, 2014, 53, 1129-1148.	4.0	197
61	An explicit phase field method for brittle dynamic fracture. Computers and Structures, 2019, 217, 45-56.	4.4	197
62	Detection of material interfaces using a regularized level set method in piezoelectric structures. Inverse Problems in Science and Engineering, 2016, 24, 153-176.	1.2	196
63	A simplified mesh-free method for shear bands with cohesive surfaces. International Journal for Numerical Methods in Engineering, 2007, 69, 993-1021.	2.8	195
64	Extended finite element method with edge-based strain smoothing (ESm-XFEM) for linear elastic crack growth. Computer Methods in Applied Mechanics and Engineering, 2012, 209-212, 250-265.	6.6	193
65	Application of Particle Methods to Static Fracture of Reinforced Concrete Structures. International Journal of Fracture, 2006, 137, 19-49.	2.2	192
66	T-spline based XIGA for fracture analysis of orthotropic media. Computers and Structures, 2015, 147, 138-146.	4.4	191
67	Deep autoencoder based energy method for the bending, vibration, and buckling analysis of Kirchhoff plates with transfer learning. European Journal of Mechanics, A/Solids, 2021, 87, 104225.	3.7	188
68	Uncertainty quantification for multiscale modeling of polymer nanocomposites with correlated parameters. Composites Part B: Engineering, 2015, 68, 446-464.	12.0	187
69	Size-dependent free flexural vibration behavior of functionally graded nanoplates. Computational Materials Science, 2012, 65, 74-80.	3.0	186
70	Concurrent multiscale modeling of three dimensional crack and dislocation propagation. Advances in Engineering Software, 2015, 80, 82-92.	3.8	180
71	A Nonlocal Operator Method for Partial Differential Equations with Application to Electromagnetic Waveguide Problem. Computers, Materials and Continua, 2019, 59, 31-55.	1.9	179
72	An adaptive singular ES-FEM for mechanics problems with singular field of arbitrary order. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 252-273.	6.6	178

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73	Phase field modeling of brittle compressive-shear fractures in rock-like materials: A new driving force and a hybrid formulation. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 729-752.	6.6	172
74	Coupling of mesh-free methods with finite elements: basic concepts and test results. Communications in Numerical Methods in Engineering, 2006, 22, 1031-1065.	1.3	171
75	Firstâ€Principles Multiscale Modeling of Mechanical Properties in Graphene/Borophene Heterostructures Empowered by Machineâ€Learning Interatomic Potentials. Advanced Materials, 2021, 33, e2102807.	21.0	171
76	Extended meshfree methods without branch enrichment for cohesive cracks. Computational Mechanics, 2007, 40, 367-382.	4.0	169
77	XLME interpolants, a seamless bridge between XFEM and enriched meshless methods. Computational Mechanics, 2014, 53, 45-57.	4.0	168
78	Nonlocal strain gradient plate model for nonlinear large-amplitude vibrations of functionally graded porous micro/nano-plates reinforced with GPLs. Composite Structures, 2018, 198, 51-62.	5.8	163
79	A peridynamics formulation for quasi-static fracture and contact in rock. Engineering Geology, 2017, 225, 42-48.	6.3	159
80	Sensitivity and uncertainty analysis for flexoelectric nanostructures. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 95-109.	6.6	159
81	First-principles investigation of mechanical properties of silicene, germanene and stanene. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 228-232.	2.7	158
82	Finite strain fracture of 2D problems with injected anisotropic softening elements. Theoretical and Applied Fracture Mechanics, 2014, 72, 50-63.	4.7	155
83	Modelling dynamic failure of concrete with meshfree methods. International Journal of Impact Engineering, 2006, 32, 1878-1897.	5.0	151
84	Mechanical responses of borophene sheets: a first-principles study. Physical Chemistry Chemical Physics, 2016, 18, 27405-27413.	2.8	149
85	Effective 2D and 3D crack propagation with local mesh refinement and the screened Poisson equation. Engineering Fracture Mechanics, 2018, 189, 339-360.	4.3	149
86	A node-based smoothed finite element method (NS-FEM) for upper bound solution to visco-elastoplastic analyses of solids using triangular and tetrahedral meshes. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 3005-3027.	6.6	147
87	A numerical model for reinforced concrete structures. International Journal of Solids and Structures, 2005, 42, 1327-1354.	2.7	144
88	Simulations of instability in dynamic fracture by the cracking particles method. Engineering Fracture Mechanics, 2009, 76, 730-741.	4.3	143
89	On the performance of strain smoothing for quadratic and enriched finite element approximations (XFEM/GFEM/PUFEM). International Journal for Numerical Methods in Engineering, 2011, 86, 637-666.	2.8	142
90	A unified framework for stochastic predictions of mechanical properties of polymeric nanocomposites. Computational Materials Science, 2015, 96, 520-535.	3.0	142

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91	Discontinuous modelling of shear bands using adaptive meshfree methods. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 641-658.	6.6	141
92	Elastic bending modulus of single-layer molybdenum disulfide (MoS ₂): finite thickness effect. Nanotechnology, 2013, 24, 435705.	2.6	141
93	A nonlocal operator method for solving partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112621.	6.6	139
94	A non-ordinary state-based peridynamics formulation for thermoplastic fracture. International Journal of Impact Engineering, 2016, 87, 83-94.	5.0	133
95	Graphene or h-BN paraffin composite structures for the thermal management of Li-ion batteries: A multiscale investigation. Applied Energy, 2017, 202, 323-334.	10.1	133
96	Computational Methods for Fracture in Brittle and Quasi-Brittle Solids: State-of-the-Art Review and Future Perspectives. ISRN Applied Mathematics, 2013, 2013, 1-38.	0.5	132
97	Stochastic predictions of interfacial characteristic of polymeric nanocomposites (PNCs). Composites Part B: Engineering, 2014, 59, 80-95.	12.0	132
98	A node-based smoothed finite element method with stabilized discrete shear gap technique for analysis of Reissner–Mindlin plates. Computational Mechanics, 2010, 46, 679-701.	4.0	128
99	Natural frequencies of cracked functionally graded material plates by the extended finite element method. Composite Structures, 2011, 93, 3082-3092.	5.8	128
100	A NURBS-based inverse analysis for reconstruction of nonlinear deformations of thin shell structures. Computer Methods in Applied Mechanics and Engineering, 2018, 331, 427-455.	6.6	127
101	Outstanding strength, optical characteristics and thermal conductivity of graphene-like BC3 and BC6N semiconductors. Carbon, 2019, 149, 733-742.	10.3	126
102	Steiner-point free edge cutting of tetrahedral meshes with applications in fracture. Finite Elements in Analysis and Design, 2017, 132, 27-41.	3.2	125
103	Machine-learning interatomic potentials enable first-principles multiscale modeling of lattice thermal conductivity in graphene/borophene heterostructures. Materials Horizons, 2020, 7, 2359-2367.	12.2	124
104	Flat borophene films as anode materials for Mg, Na or Li-ion batteries with ultra high capacities: A first-principles study. Applied Materials Today, 2017, 8, 60-67.	4.3	122
105	Extended isogeometric analysis for dynamic fracture in multiphase piezoelectric/piezomagnetic composites. Mechanics of Materials, 2016, 97, 135-163.	3.2	120
106	Stochastic predictions of bulk properties of amorphous polyethylene based on molecular dynamics simulations. Mechanics of Materials, 2014, 68, 70-84.	3.2	118
107	Thermal conductivity and mechanical properties of nitrogenated holey graphene. Carbon, 2016, 106, 1-8.	10.3	118
108	Isogeometric Analysis of Laminated Composite Plates Using the Higher-Order Shear Deformation Theory. Mechanics of Advanced Materials and Structures, 2015, 22, 451-469.	2.6	117

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109	An efficient optimization approach for designing machine learning models based on genetic algorithm. Neural Computing and Applications, 2021, 33, 1923-1933.	5.6	116
110	An h-adaptive thermo-mechanical phase field model for fracture. Finite Elements in Analysis and Design, 2018, 138, 31-47.	3.2	115
111	A deep energy method for finite deformation hyperelasticity. European Journal of Mechanics, A/Solids, 2020, 80, 103874.	3.7	115
112	Mechanical properties and thermal conductivity of graphitic carbon nitride: A molecular dynamics study. Computational Materials Science, 2015, 99, 285-289.	3.0	112
113	Three-dimensional mesoscale computational modeling of soil-rock mixtures with concave particles. Engineering Geology, 2020, 277, 105802.	6.3	110
114	Borophene hydride: a stiff 2D material with high thermal conductivity and attractive optical and electronic properties. Nanoscale, 2018, 10, 3759-3768.	5.6	109
115	Accelerating first-principles estimation of thermal conductivity by machine-learning interatomic potentials: A MTP/ShengBTE solution. Computer Physics Communications, 2021, 258, 107583.	7.5	108
116	A review on nanomechanical resonators and their applications in sensors and molecular transportation. Applied Physics Reviews, 2015, 2, .	11.3	106
117	Peridynamic modeling of composite laminates under explosive loading. Composite Structures, 2016, 144, 14-23.	5.8	106
118	Modelling hydraulic fractures in porous media using flow cohesive interface elements. Engineering Geology, 2017, 225, 68-82.	6.3	105
119	Fluid–structure interaction in lower airways of CTâ€based lung geometries. International Journal for Numerical Methods in Fluids, 2008, 57, 653-675.	1.6	104
120	Modelling heat conduction in polycrystalline hexagonal boron-nitride films. Scientific Reports, 2015, 5, 13228.	3.3	104
121	Boron–graphdiyne: a superstretchable semiconductor with low thermal conductivity and ultrahigh capacity for Li, Na and Ca ion storage. Journal of Materials Chemistry A, 2018, 6, 11022-11036.	10.3	104
122	A partitioned model order reduction approach to rationalise computational expenses in nonlinear fracture mechanics. Computer Methods in Applied Mechanics and Engineering, 2013, 256, 169-188.	6.6	101
123	Multiscale modeling of heat conduction in graphene laminates. Carbon, 2015, 85, 1-7.	10.3	101
124	Enhancement in hydrogen storage capacities of light metal functionalized Boron–Graphdiyne nanosheets. Carbon, 2019, 147, 199-205.	10.3	100
125	A theoretical analysis of cohesive energy between carbon nanotubes, graphene and substrates. Carbon, 2013, 57, 108-119.	10.3	99
126	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 611-624.	3.1	98

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127	An isogeometric collocation method using superconvergent points. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 1073-1097.	6.6	97
128	Exploring phononic properties of two-dimensional materials using machine learning interatomic potentials. Applied Materials Today, 2020, 20, 100685.	4.3	96
129	Computation of limit and shakedown loads using a nodeâ€based smoothed finite element method. International Journal for Numerical Methods in Engineering, 2012, 90, 287-310.	2.8	95
130	Load transfer of graphene/carbon nanotube/polyethylene hybrid nanocomposite by molecular dynamics simulation. Composites Part B: Engineering, 2014, 63, 27-33.	12.0	95
131	Parametric deep energy approach for elasticity accounting for strain gradient effects. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114096.	6.6	95
132	Uncertainties propagation in metamodel-based probabilistic optimization of CNT/polymer composite structure using stochastic multi-scale modeling. Computational Materials Science, 2014, 85, 295-305.	3.0	94
133	Dynamics of two-dimensional functionally graded tapered Timoshenko nanobeam in thermal environment using nonlocal strain gradient theory. Composites Part B: Engineering, 2020, 182, 107622.	12.0	94
134	Topology optimization of flexoelectric structures. Journal of the Mechanics and Physics of Solids, 2017, 105, 217-234.	4.8	93
135	Numerical analysis of high speed concrete fragmentation using a meshfree Lagrangian method. Engineering Fracture Mechanics, 2004, 71, 547-556.	4.3	92
136	A new approach for modelling slip lines in geological materials with cohesive models. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 1159-1172.	3.3	91
137	Detection of flaws in piezoelectric structures using extended FEM. International Journal for Numerical Methods in Engineering, 2013, 96, 373-389.	2.8	90
138	Uncertainty quantification of the fracture properties of polymeric nanocomposites based on phase field modeling. Composite Structures, 2015, 133, 1177-1190.	5.8	90
139	An isogeometric symmetric Galerkin boundary element method for two-dimensional crack problems. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 252-275.	6.6	90
140	A unified nonlocal strain gradient plate model for nonlinear axial instability of functionally graded porous micro/nano-plates reinforced with graphene platelets. Materials Research Express, 2018, 5, 045048.	1.6	89
141	Homogenization of sandwich structures. International Journal for Numerical Methods in Engineering, 2004, 61, 1009-1027.	2.8	88
142	Predicting the fracture toughness of PNCs: A stochastic approach based on ANN and ANFIS. Computational Materials Science, 2015, 102, 304-313.	3.0	88
143	Modelling the dynamic failure of brittle rocks using a hybrid continuum-discrete element method with a mixed-mode cohesive fracture model. International Journal of Impact Engineering, 2016, 87, 146-155.	5.0	87
144	A cellâ€based smoothed finite element method for kinematic limit analysis. International Journal for Numerical Methods in Engineering, 2010, 83, 1651-1674.	2.8	86

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145	A Phantom-Node Method with Edge-Based Strain Smoothing for Linear Elastic Fracture Mechanics. Journal of Applied Mathematics, 2013, 2013, 1-12.	0.9	86
146	Constructing IGA-suitable planar parameterization from complex CAD boundary by domain partition and global/local optimization. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 175-200.	6.6	86
147	A higher order nonlocal operator method for solving partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113132.	6.6	84
148	Application of two-dimensional materials as anodes for rechargeable metal-ion batteries: A comprehensive perspective from density functional theory simulations. Energy Storage Materials, 2021, 35, 203-282.	18.0	84
149	Application of nonlocal strain gradient theory to size dependent bending analysis of a sandwich porous nanoplate integrated with piezomagnetic face-sheets. Composites Part B: Engineering, 2019, 168, 320-333.	12.0	83
150	Amorphized graphene: A stiff material with low thermal conductivity. Carbon, 2016, 103, 318-326.	10.3	82
151	N-graphdiyne two-dimensional nanomaterials: Semiconductors with low thermal conductivity and high stretchability. Carbon, 2018, 137, 57-67.	10.3	82
152	A Stillinger–Weber potential for single-layered black phosphorus, and the importance of cross-pucker interactions for a negative Poisson's ratio and edge stress-induced bending. Nanoscale, 2015, 7, 6059-6068.	5.6	80
153	Initially rigid cohesive laws and fracture based on edge rotations. Computational Mechanics, 2013, 52, 931-947.	4.0	79
154	The mechanical properties of three types of carbon allotropes. Nanotechnology, 2013, 24, 095702.	2.6	79
155	A semi-concurrent multiscale approach for modeling damage in nanocomposites. Theoretical and Applied Fracture Mechanics, 2014, 74, 30-38.	4.7	79
156	Effect of various characteristics of graphene nanoplatelets on thermal buckling behavior of FGRC micro plate based on MCST. European Journal of Mechanics, A/Solids, 2019, 77, 103802.	3.7	78
157	MOLECULAR DYNAMICS/XFEM COUPLING BY A THREE-DIMENSIONAL EXTENDED BRIDGING DOMAIN WITH APPLICATIONS TO DYNAMIC BRITTLE FRACTURE. International Journal for Multiscale Computational Engineering, 2013, 11, 527-541.	1.2	77
158	Optimal fiber content and distribution in fiber-reinforced solids using a reliability and NURBS based sequential optimization approach. Structural and Multidisciplinary Optimization, 2015, 51, 99-112.	3.5	76
159	Thermo-mechanical buckling behavior of FG GNP reinforced micro plate based on MSGT. Thin-Walled Structures, 2019, 142, 444-459.	5.3	76
160	Phase field fracture in elasto-plastic solids: Abaqus implementation and case studies. Theoretical and Applied Fracture Mechanics, 2019, 103, 102252.	4.7	76
161	Predictions of J integral and tensile strength of clay/epoxy nanocomposites material using phase field model. Composites Part B: Engineering, 2016, 93, 97-114.	12.0	75
162	Detection of multiple flaws in piezoelectric structures using XFEM and level sets. Computer Methods in Applied Mechanics and Engineering, 2014, 275, 98-112.	6.6	74

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163	A Multiscale Model for the Quasi-Static Thermo-Plastic Behavior of Highly Cross-Linked Glassy Polymers. Macromolecules, 2015, 48, 6713-6723.	4.8	73
164	Topology optimization of piezoelectric nanostructures. Journal of the Mechanics and Physics of Solids, 2016, 94, 316-335.	4.8	73
165	Size-dependent analysis of FG-CNTRC microplates based on modified strain gradient elasticity theory. European Journal of Mechanics, A/Solids, 2018, 72, 521-538.	3.7	73
166	N-, P-, As-triphenylene-graphdiyne: Strong and stable 2D semiconductors with outstanding capacities as anodes for Li-ion batteries. Carbon, 2019, 141, 291-303.	10.3	73
167	Nanoporous C3N4, C3N5 and C3N6 nanosheets; novel strong semiconductors with low thermal conductivities and appealing optical/electronic properties. Carbon, 2020, 167, 40-50.	10.3	72
168	DigiSim — An Open Source Software Package for Heterogeneous Material Modeling Based on Digital Image Processing. Advances in Engineering Software, 2020, 148, 102836.	3.8	72
169	Mechanical properties of carbon nanotube reinforced polymer nanocomposites: A coarse-grained model. Composites Part B: Engineering, 2015, 80, 92-100.	12.0	71
170	A meshless adaptive multiscale method for fracture. Computational Materials Science, 2015, 96, 382-395.	3.0	71
171	MoS2 nanoresonators: intrinsically better than graphene?. Nanoscale, 2014, 6, 3618.	5.6	70
172	Modeling and simulation of kinked cracks by virtual node XFEM. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1425-1466.	6.6	70
173	Inverse design of quantum spin hall-based phononic topological insulators. Journal of the Mechanics and Physics of Solids, 2019, 125, 550-571.	4.8	70
174	Prediction of significant wave height; comparison between nested grid numerical model, and machine learning models of artificial neural networks, extreme learning and support vector machines. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 805-817.	3.1	69
175	Adaptive fourth-order phase field analysis for brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112808.	6.6	69
176	Crack propagation in graphene. Journal of Applied Physics, 2015, 118, .	2.5	68
177	Anisotropic thermal conductivity and mechanical properties of phagraphene: a molecular dynamics study. RSC Advances, 2016, 6, 57773-57779.	3.6	68
178	Mechanical responses of pristine and defective C3N nanosheets studied by molecular dynamics simulations. Computational Materials Science, 2018, 147, 316-321.	3.0	68
179	An Intelligent Artificial Neural Network-Response Surface Methodology Method for Accessing the Optimum Biodiesel and Diesel Fuel Blending Conditions in a Diesel Engine from the Viewpoint of Exergy and Energy Analysis. Energies, 2018, 11, 860.	3.1	68
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