Wing Kam Liu

List of Publications by Year
in descending order

173 papers	13,339 citations	23500 58 h-index	22764 112 g-index
181 all docs	181 docs citations	181 times ranked	7111 citing authors

#	Article	IF	Citations
1	HiDeNN-TD: Reduced-order hierarchical deep learning neural networks. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114414.	3.4	16
2	Mechanistic artificial intelligence (mechanistic-AI) for modeling, design, and control of advanced manufacturing processes: Current state and perspectives. Journal of Materials Processing Technology, 2022, 302, 117485.	3.1	32
3	Hierarchical deep-learning neural networks: finite elements and beyond. Computational Mechanics, 2021, 67, 207-230.	2.2	46
4	Image-based modelling for Adolescent Idiopathic Scoliosis: Mechanistic machine learning analysis and prediction. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113590.	3.4	31
5	Hierarchical Deep Learning Neural Network (HiDeNN): An artificial intelligence (AI) framework for computational science and engineering. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113452.	3.4	77
6	Self-consistent clustering analysis for modeling of theromelastic heterogeneous materials. AIP Conference Proceedings, 2021, , .	0.3	4
7	Multiresolution clustering analysis for efficient modeling of hierarchical material systems. Computational Mechanics, 2021, 67, 1293-1306.	2.2	14
8	Universal scaling laws of keyhole stability and porosity in 3D printing of metals. Nature Communications, 2021, 12, 2379.	5.8	105
9	Image-based multiscale modeling with spatially varying microstructures from experiments: Demonstration with additively manufactured metal in fatigue and fracture. Journal of the Mechanics and Physics of Solids, 2021, 150, 104350.	2.3	17
10	Microscale Structure to Property Prediction for Additively Manufactured IN625 through Advanced Material Model Parameter Identification. Integrating Materials and Manufacturing Innovation, 2021, 10, 142-156.	1.2	8
11	Benchmark Study of Melted Track Geometries in Laser Powder Bed Fusion of Inconel 625. Integrating Materials and Manufacturing Innovation, 2021, 10, 177-195.	1.2	9
12	Mechanistic data-driven prediction of as-built mechanical properties in metal additive manufacturing. Npj Computational Materials, 2021, 7, .	3.5	43
13	Macroscale Property Prediction for Additively Manufactured IN625 from Microstructure Through Advanced Homogenization. Integrating Materials and Manufacturing Innovation, 2021, 10, 360-372.	1.2	5
14	From microscale to mesoscale: The non-linear behavior prediction of 3D braided composites based on the SCA2 concurrent multiscale simulation. Composites Science and Technology, 2021, 213, 108947.	3.8	16
15	Double Averaging Analysis Applied to a Large Eddy Simulation of Coupled Turbulent Overlying and Porewater Flow. Water Resources Research, 2021, 57, e2021WR029918.	1.7	3
16	Predictive multiscale modeling for Unidirectional Carbon Fiber Reinforced Polymers. Composites Science and Technology, 2020, 186, 107922.	3.8	35
17	Adaptive hyper reduction for additive manufacturing thermal fluid analysis. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113312.	3.4	14
18	Analytical expression of RKPM shape functions. Computational Mechanics, 2020, 66, 1343-1352.	2.2	4

#	Article	IF	Citations
19	Data-driven characterization of thermal models for powder-bed-fusion additive manufacturing. Additive Manufacturing, 2020, 36, 101503.	1.7	19
20	Efficient multiscale modeling for woven composites based on self-consistent clustering analysis. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112929.	3.4	47
21	Powder-scale multi-physics modeling of multi-layer multi-track selective laser melting with sharp interface capturing method. Computational Mechanics, 2019, 63, 649-661.	2.2	88
22	An inverse modeling approach for predicting filled rubber performance. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112567.	3.4	13
23	Data-Driven Microstructure and Microhardness Design in Additive Manufacturing Using a Self-Organizing Map. Engineering, 2019, 5, 730-735.	3.2	40
24	A computational mechanics special issue on: data-driven modeling and simulation—theory, methods, and applications. Computational Mechanics, 2019, 64, 275-277.	2.2	20
25	Fast calculation of interaction tensors in clustering-based homogenization. Computational Mechanics, 2019, 64, 351-364.	2.2	18
26	Derivation of heterogeneous material laws via data-driven principal component expansions. Computational Mechanics, 2019, 64, 365-379.	2.2	53
27	Clustering discretization methods for generation of material performance databases in machine learning and design optimization. Computational Mechanics, 2019, 64, 281-305.	2.2	74
28	A sequential homogenization of multi-coated micromechanical model for functionally graded interphase composites. Computational Mechanics, 2019, 64, 1321-1337.	2.2	5
29	A cellular automaton finite volume method for microstructure evolution during additive manufacturing. Materials and Design, 2019, 169, 107672.	3.3	117
30	Self-consistent clustering analysis for multiscale modeling at finite strains. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 339-359.	3.4	53
31	Benchmark Study of Thermal Behavior, Surface Topography, and Dendritic Microstructure in Selective Laser Melting of Inconel 625. Integrating Materials and Manufacturing Innovation, 2019, 8, 178-193.	1.2	97
32	Finite element simulation of saw-tooth chip in high-speed machining based on multiresolution continuum theory. International Journal of Advanced Manufacturing Technology, 2019, 101, 1759-1772.	1.5	7
33	Data science for finite strain mechanical science of ductile materials. Computational Mechanics, 2019, 64, 33-45.	2.2	26
34	Special issue on Additive manufacturing: progress in modeling and simulation with experimental validations in additive manufacturing. Computational Mechanics, 2018, 61, 519-520.	2.2	6
35	Modeling process-structure-property relationships for additive manufacturing. Frontiers of Mechanical Engineering, 2018, 13, 482-492.	2.5	64
36	Enriched reproducing kernel particle method for fractional advection–diffusion equation. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 515-527.	1.5	17

#	ARTICLE	IF	CITATIONS
37	Data-driven multi-scale multi-physics models to derive process–structure–property relationships for additive manufacturing. Computational Mechanics, 2018, 61, 521-541.	2.2	162
38	A parallelized three-dimensional cellular automaton model for grain growth during additive manufacturing. Computational Mechanics, 2018, 61, 543-558.	2.2	96
39	Data-Driven Mechanistic Modeling of Influence of Microstructure on High-Cycle Fatigue Life of Nickel Titanium. Jom, 2018, 70, 1154-1158.	0.9	24
40	From virtual clustering analysis to self-consistent clustering analysis: a mathematical study. Computational Mechanics, 2018, 62, 1443-1460.	2.2	48
41	An integrated process–structure–property modeling framework for additive manufacturing. Computer Methods in Applied Mechanics and Engineering, 2018, 339, 184-204.	3.4	98
42	Variational boundary integral approach for asymmetric impinging jets of arbitrary two-dimensional nozzle. International Journal for Numerical Methods in Fluids, 2018, 88, 193-216.	0.9	0
43	An enriched finite element method to fractional advection–diffusion equation. Computational Mechanics, 2017, 60, 181-201.	2.2	13
44	Modular-based multiscale modeling on viscoelasticity of polymer nanocomposites. Computational Mechanics, 2017, 59, 187-201.	2.2	9
45	An energetically consistent concurrent multiscale method for heterogeneous heat transfer and phase transition applications. Computer Methods in Applied Mechanics and Engineering, 2017, 315, 100-120.	3.4	6
46	Design of mechanical metamaterials for simultaneous vibration isolation and energy harvesting. Applied Physics Letters, 2017, 111, .	1.5	105
47	Self-consistent clustering analysis: An efficient multi-scale scheme for inelastic heterogeneous materials. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 319-341.	3.4	298
48	An extended micromechanics method for probing interphase properties in polymer nanocomposites. Journal of the Mechanics and Physics of Solids, 2016, 95, 663-680.	2.3	32
49	Differential operator multiplication method for fractional differential equations. Computational Mechanics, 2016, 58, 879-888.	2.2	16
50	A Petrov–Galerkin finite element method for the fractional advection–diffusion equation. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 388-410.	3.4	32
51	Automatised selection of load paths to construct reduced-order models in computational damage micromechanics: from dissipation-driven random selection to Bayesian optimization. Computational Mechanics, 2016, 58, 213-234.	2.2	55
52	Molecular simulation guided constitutive modeling on finite strain viscoelasticity of elastomers. Journal of the Mechanics and Physics of Solids, 2016, 88, 204-226.	2.3	87
53	Cell and nanoparticle transport in tumour microvasculature: the role of size, shape and surface functionality of nanoparticles. Interface Focus, 2016, 6, 20150086.	1.5	79
54	Linking process, structure, property, and performance for metal-based additive manufacturing: computational approaches with experimental support. Computational Mechanics, 2016, 57, 583-610.	2.2	190

#	Article	IF	Citations
55	Thermodynamically consistent microstructure prediction of additively manufactured materials. Computational Mechanics, 2016, 57, 359-370.	2.2	54
56	Preface: special issue of computational mechanics on â€œConnecting Multiscale Mechanics to Complex Material Designâ€. Computational Mechanics, 2016, 57, 355-357.	2.2	0
57	Advancements in multiresolution analysis. International Journal for Numerical Methods in Engineering, 2015, 102, 784-807.	1.5	5
58	A semi-numerical algorithm for instability of compressible multilayered structures. Computational Mechanics, 2015, 56, 63-75.	2.2	13
59	Enhancement of Endothelial Cell Retention on ePTFE Vascular Constructs by siRNA-Mediated SHP-1 or SHP-2 Gene Silencing. Cellular and Molecular Bioengineering, 2015, 8, 507-516.	1.0	2
60	Tensile Stress-Driven Surface Wrinkles on Cylindrical Coreâ€"Shell Soft Solids. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	10
61	Predicting band structure of 3D mechanical metamaterials with complex geometry via XFEM. Computational Mechanics, 2015, 55, 659-672.	2.2	25
62	Multiscale modeling of electron beam and substrate interaction: a new heat source model. Computational Mechanics, 2015, 56, 265-276.	2.2	87
63	Shape effect in cellular uptake of PEGylated nanoparticles: comparison between sphere, rod, cube and disk. Nanoscale, 2015, 7, 16631-16646.	2.8	268
64	Variable Chain Confinement in Polymers With Nanosized Pores and Its Impact on Instability. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	2
65	A statistical descriptor based volume-integral micromechanics model of heterogeneous material with arbitrary inclusion shape. Computational Mechanics, 2015, 55, 963-981.	2.2	17
66	Implicit finite element formulation of multiresolution continuum theory. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 114-130.	3.4	2
67	A Multiscale Model for the Quasi-Static Thermo-Plastic Behavior of Highly Cross-Linked Glassy Polymers. Macromolecules, 2015, 48, 6713-6723.	2.2	73
68	Multiscale ductile fracture integrating tomographic characterization and 3-D simulation. Acta Materialia, 2015, 82, 503-510.	3.8	24
69	BIOMIMETIC CILIA. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 509-532.	0.1	0
70	Quantifying uncertainties in the microvascular transport of nanoparticles. Biomechanics and Modeling in Mechanobiology, 2014, 13, 515-526.	1.4	23
71	Synthesis of nanodiamondâ€"daunorubicin conjugates to overcome multidrug chemoresistance in leukemia. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 359-369.	1.7	74
72	A meshfree unification: reproducing kernel peridynamics. Computational Mechanics, 2014, 53, 1251-1264.	2.2	144

#	Article	IF	Citations
73	Nanomedicine. Computational Mechanics, 2014, 53, 401-402.	2.2	1
74	The archetype-genome exemplar in molecular dynamics and continuum mechanics. Computational Mechanics, 2014, 53, 687-737.	2.2	16
75	Dynamic structure of unentangled polymer chains in the vicinity of non-attractive nanoparticles. Soft Matter, 2014, 10, 1723.	1.2	73
76	Multiscale modeling and uncertainty quantification in nanoparticle-mediated drug/gene delivery. Computational Mechanics, 2014, 53, 511-537.	2.2	52
77	Efficient prediction of protein conformational pathways based on the hybrid elastic network model. Journal of Molecular Graphics and Modelling, 2014, 47, 25-36.	1.3	11
78	Endocytosis of PEGylated nanoparticles accompanied by structural and free energy changes of the grafted polyethylene glycol. Biomaterials, 2014, 35, 8467-8478.	5.7	176
79	USNCTAM perspectives on mechanics in medicine. Journal of the Royal Society Interface, 2014, 11, 20140301.	1.5	35
80	Challenges in Multiscale Modeling of Polymer Dynamics. Polymers, 2013, 5, 751-832.	2.0	173
81	Experimental and computational validation of Hele-Shaw stagnation flow with varying shear stress. Computational Mechanics, 2013, 52, 1463-1473.	2.2	5
82	Concurrent multiresolution finite element: formulation and algorithmic aspects. Computational Mechanics, 2013, 52, 1265-1279.	2.2	16
83	A generalized uncertainty propagation criterion from benchmark studies of microstructured material systems. Computer Methods in Applied Mechanics and Engineering, 2013, 254, 271-291.	3.4	22
84	Stochastic Reassembly Strategy for Managing Information Complexity in Heterogeneous Materials Analysis and Design. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	1.7	26
85	Intersection-free tetrahedral meshing from volumetric images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 100-110.	1.3	4
86	Nanoparticle Effect on the Dynamics of Polymer Chains and Their Entanglement Network. Physical Review Letters, 2012, 109, 118001.	2.9	160
87	A modal analysis of carbon nanotube using elastic network model. Journal of Mechanical Science and Technology, 2012, 26, 3433-3438.	0.7	6
88	A renormalization approach to model interaction in microstructured solids: Application to porous elastomer. Computer Methods in Applied Mechanics and Engineering, 2012, 217-220, 213-225.	3.4	12
89	Two-scale mechanism-based theory of nonlinear viscoelasticity. Journal of the Mechanics and Physics of Solids, 2012, 60, 199-226.	2.3	69
90	A domain-reduction approach to bridging-scale simulation of one-dimensional nanostructures. Computational Mechanics, 2011, 47, 31-47.	2.2	7

#	Article	IF	Citations
91	Conforming local meshfree method. International Journal for Numerical Methods in Engineering, 2011, 86, 335-357.	1.5	13
92	A variable constraint tube model for size effects of polymer nano-structures. Applied Physics Letters, 2011, 99, .	1.5	9
93	Precise spring constant assignment in elastic network model for identification of vibration frequency and modeshape. Journal of Mechanical Science and Technology, 2010, 24, 1771-1780.	0.7	4
94	Multiscale methods for mechanical science of complex materials: Bridging from quantum to stochastic multiresolution continuum. International Journal for Numerical Methods in Engineering, 2010, 83, 1039-1080.	1.5	47
95	Multiresolution continuum modeling of micro-void assisted dynamic adiabatic shear band propagation. Journal of the Mechanics and Physics of Solids, 2010, 58, 187-205.	2.3	39
96	A multiresolution continuum simulation of the ductile fracture process. Journal of the Mechanics and Physics of Solids, 2010, 58, 1681-1700.	2.3	60
97	An Efficient Elastic Displacement Analysis Procedure for Simulating Transient Conformal-Contact Elastohydrodynamic Lubrication Systems. Journal of Tribology, 2010, 132, .	1.0	10
98	Mechano-kinetic coupling approach for materials with dynamic internal structure. Philosophical Magazine Letters, 2010, 90, 471-480.	0.5	7
99	Complexity science of multiscale materials via stochastic computations. International Journal for Numerical Methods in Engineering, 2009, 80, 932-978.	1.5	45
100	Multi-length scale micromorphic process zone model. Computational Mechanics, 2009, 44, 433-445.	2.2	23
101	Multi-scale solid oxide fuel cell materials modeling. Computational Mechanics, 2009, 44, 683-703.	2.2	28
102	Multiresolution modeling of ductile reinforced brittle composites. Journal of the Mechanics and Physics of Solids, 2009, 57, 244-267.	2.3	32
103	Predictive multiscale theory for design of heterogeneous materials. Computational Mechanics, 2008, 42, 147-170.	2.2	47
104	Multiple time scale method for atomistic simulations. Computational Mechanics, 2008, 42, 569-577.	2.2	7
105	A finite temperature continuum theory based on interatomic potential in crystalline solids. Computational Mechanics, 2008, 42, 531-541.	2.2	15
106	Materials integrity in microsystems: a framework for a petascale predictive-science-based multiscale modeling and simulation system. Computational Mechanics, 2008, 42, 485-510.	2.2	21
107	Special issue on Multiscale methods for nano- and bio-mechanics and materials. Computational Mechanics, 2008, 42, 483-484.	2.2	0
108	Meshfree simulation of failure modes in thin cylinders subjected to combined loads of internal pressure and localized heat. International Journal for Numerical Methods in Engineering, 2008, 76, 1159-1184.	1.5	17

#	Article	IF	Citations
109	A micromorphic model for the multiple scale failure of heterogeneous materials. Journal of the Mechanics and Physics of Solids, 2008, 56, 1320-1347.	2.3	94
110	Linking microstructure and properties through a predictive multiresolution continuum. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 3268-3290.	3.4	64
111	Simulation and prediction of endothelial cell adhesion modulated by molecular engineering. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2340-2352.	3.4	14
112	Characterization of Point Defect Generation, Migration and Coalescence in Irradiated SiC by Atomistic Simulation. Materials Research Society Symposia Proceedings, 2007, 1043, 1.	0.1	0
113	A phonon heat bath approach for the atomistic and multiscale simulation of solids. International Journal for Numerical Methods in Engineering, 2007, 70, 351-378.	1.5	58
114	Immersed electrokinetic finite element method. International Journal for Numerical Methods in Engineering, 2007, 71, 379-405.	1.5	65
115	Implementation aspects of the bridging scale method and application to intersonic crack propagation. International Journal for Numerical Methods in Engineering, 2007, 71, 583-605.	1.5	28
116	On criteria for dynamic adiabatic shear band propagation. Journal of the Mechanics and Physics of Solids, 2007, 55, 1439-1461.	2.3	106
117	Meshfree point collocation method with intrinsic enrichment for interface problems. Computational Mechanics, 2007, 40, 1037-1052.	2.2	41
118	Moving particle finite element method with superconvergence: Nodal integration formulation and applications. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6059-6072.	3.4	44
119	Bridging scale methods for nanomechanics and materials. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1407-1421.	3.4	135
120	Immersed finite element method and its applications to biological systems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1722-1749.	3.4	240
121	Rheology of red blood cell aggregation by computer simulation. Journal of Computational Physics, 2006, 220, 139-154.	1.9	248
122	Mathematical foundations of the immersed finite element method. Computational Mechanics, 2006, 39, 211-222.	2.2	79
123	The 3-D computational modeling of shear-dominated ductile failure in steel. Jom, 2006, 58, 45-51.	0.9	51
124	A mathematical framework of the bridging scale method. International Journal for Numerical Methods in Engineering, 2006, 65, 1688-1713.	1.5	63
125	Approaching Mixed Elastohydrodynamic Lubrication of Smooth Journal-Bearing Systems with Low Rotating Speed. Tribology Transactions, 2006, 49, 598-610.	1.1	9
126	Three-dimensional bridging scale analysis of dynamic fracture. Journal of Computational Physics, 2005, 207, 588-609.	1.9	91

#	Article	IF	Citations
127	Adaptive enrichment meshfree simulation and experiment on buckling and post-buckling analysis in sheet metal forming. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2569-2590.	3.4	27
128	A Green's function approach to deriving non-reflecting boundary conditions in molecular dynamics simulations. International Journal for Numerical Methods in Engineering, 2005, 62, 1250-1262.	1.5	95
129	Treatment of discontinuity in the reproducing kernel element method. International Journal for Numerical Methods in Engineering, 2005, 63, 241-255.	1.5	10
130	Non-reflecting boundary conditions for atomistic, continuum and coupled atomistic/continuum simulations. International Journal for Numerical Methods in Engineering, 2005, 64, 237-259.	1.5	46
131	Flexible piecewise approximations based on partition of unity. Advances in Computational Mathematics, 2005, 23, 191-199.	0.8	8
132	Cohesive solutions of intersonic moving dislocations. Philosophical Magazine, 2004, 84, 1067-1104.	0.7	9
133	A Multi-scale Simulation of Micro-forming Process with RKEM. AIP Conference Proceedings, 2004, , .	0.3	0
134	Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. International Journal for Numerical Methods in Fluids, 2004, 46, 1237-1252.	0.9	128
135	Finite element method for mixed elastohydrodynamic lubrication of journal-bearing systems. International Journal for Numerical Methods in Engineering, 2004, 60, 1759-1790.	1.5	18
136	Moving particle finite element method with global smoothness. International Journal for Numerical Methods in Engineering, 2004, 59, 1007-1020.	1.5	25
137	Bridging multi-scale method for localization problems. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3267-3302.	3.4	80
138	Reproducing kernel element method. Part I: Theoretical formulation. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 933-951.	3.4	140
139	A multiscale projection method for the analysis of carbon nanotubes. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1603-1632.	3.4	149
140	Extended immersed boundary method using FEM and RKPM. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1305-1321.	3.4	175
141	Multi-scale constitutive model and computational framework for the design of ultra-high strength, high toughness steels. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1865-1908.	3.4	112
142	Immersed finite element method. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 2051-2067.	3.4	416
143	Coupling of atomistic and continuum simulations using a bridging scale decomposition. Journal of Computational Physics, 2003, 190, 249-274.	1.9	589
144	Convergence analysis of a hierarchical enrichment of Dirichlet boundary conditions in a mesh-free method. International Journal for Numerical Methods in Engineering, 2002, 53, 1323-1336.	1.5	21

#	ARTICLE	IF	CITATIONS
145	Moving particle finite element method. International Journal for Numerical Methods in Engineering, 2002, 53, 1937-1958.	1.5	31
146	Mesh-free Galerkin simulations of dynamic shear band propagation and failure mode transition. International Journal of Solids and Structures, 2002, 39, 1213-1240.	1.3	149
147	Mechanics of C60in Nanotubes. Journal of Physical Chemistry B, 2001, 105, 10753-10758.	1.2	161
148	Hierarchical enrichment for bridging scales and mesh-free boundary conditions. International Journal for Numerical Methods in Engineering, 2001, 50, 507-524.	1.5	84
149	Effective Models for Prediction of Springback In Flanging. Journal of Engineering Materials and Technology, Transactions of the ASME, 2001, 123, 456-461.	0.8	36
150	Parallel computation of meshless methods for explicit dynamic analysis. International Journal for Numerical Methods in Engineering, 2000, 47, 1323-1341.	1.5	28
151	Multi-scale methods. International Journal for Numerical Methods in Engineering, 2000, 47, 1343-1361.	1.5	54
152	Application of essential boundary conditions in mesh-free methods: a corrected collocation method. International Journal for Numerical Methods in Engineering, 2000, 47, 1367-1379.	1.5	112
153	Numerical simulations of strain localization in inelastic solids using mesh-free methods. International Journal for Numerical Methods in Engineering, 2000, 48, 1285-1309.	1.5	75
154	A unified stability analysis of meshless particle methods. International Journal for Numerical Methods in Engineering, 2000, 48, 1359-1400.	1.5	377
155	Numerical simulations of strain localization in inelastic solids using mesh†free methods. International Journal for Numerical Methods in Engineering, 2000, 48, 1285-1309.	1.5	2
156	Bimaterial Interfacial Crack Growth With Strain Gradient Theory. Journal of Engineering Materials and Technology, Transactions of the ASME, 1999, 121, 413-421.	0.8	10
157	Reproducing kernel hierarchical partition of unity, Part I?formulation and theory. International Journal for Numerical Methods in Engineering, 1999, 45, 251-288.	1.5	162
158	Reproducing kernel hierarchical partition of unity, Part II?applications. International Journal for Numerical Methods in Engineering, 1999, 45, 289-317.	1.5	105
159	Reproducing kernel hierarchical partition of unity, Part Iâ€"formulation and theory. , 1999, 45, 251.		4
160	Enrichment of the Finite Element Method With the Reproducing Kernel Particle Method. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 861-870.	1.1	109
161	Multiresolution reproducing kernel particle method for computational fluid dynamics. International Journal for Numerical Methods in Fluids, 1997, 24, 1391-1415.	0.9	109
162	Reproducing kernel particle methods for structural dynamics. International Journal for Numerical Methods in Engineering, 1995, 38, 1655-1679.	1.5	701

#	ARTICLE	IF	CITATIONS
163	Reproducing kernel particle methods. International Journal for Numerical Methods in Fluids, 1995, 20, 1081-1106.	0.9	2,374
164	Wavelet and multiple scale reproducing kernel methods. International Journal for Numerical Methods in Fluids, 1995, 21, 901-931.	0.9	220
165	Multiple quadrature underintegrated finite elements. International Journal for Numerical Methods in Engineering, 1994, 37, 3263-3289.	1.5	65
166	Finite element hydrodynamic friction model for metal forming. International Journal for Numerical Methods in Engineering, 1994, 37, 4015-4037.	1.5	9
167	An ALE hydrodynamic lubrication finite element method with application to strip rolling. International Journal for Numerical Methods in Engineering, 1993, 36, 855-880.	1.5	39
168	Elastic interactions of a fatigue crack with a micro-defect by the mixed boundary integral equation method. International Journal for Numerical Methods in Engineering, 1993, 36, 2743-2759.	1.5	7
169	Curvilinear fatigue crack reliability analysis by stochastic boundary element method. International Journal for Numerical Methods in Engineering, 1993, 36, 3841-3858.	1.5	5
170	ALE finite element formulation for ring rolling analysis. International Journal for Numerical Methods in Engineering, 1992, 33, 1217-1236.	1.5	31
171	Multiple scale finite element methods. International Journal for Numerical Methods in Engineering, 1991, 32, 969-990.	1.5	53
172	Dynamic stability characteristics of liquid-filled shells. Earthquake Engineering and Structural Dynamics, 1989, 18, 1219-1231.	2.5	5
173	Numerical Modelling in Science and Engineering. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 996-997.	1.1	17