

Jiun-Shyan Chen

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152
papers

6,293
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76
g-index

166
ext. papers

7,046
ext. citations

3.3
avg, IF

5.95
L-index

#	Paper	IF	Citations
152	A stabilized conforming nodal integration for Galerkin mesh-free methods. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 435-466	2.4	935
151	Reproducing Kernel Particle Methods for large deformation analysis of non-linear structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1996 , 139, 195-227	5.7	633
150	Non-linear version of stabilized conforming nodal integration for Galerkin mesh-free methods. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 2587-2615	2.4	228
149	Overview and applications of the reproducing Kernel Particle methods. <i>Archives of Computational Methods in Engineering</i> , 1996 , 3, 3-80	7.8	210
148	New boundary condition treatments in meshfree computation of contact problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 187, 441-468	5.7	182
147	A Lagrangian reproducing kernel particle method for metal forming analysis. <i>Computational Mechanics</i> , 1998 , 22, 289-307	4	176
146	Meshfree and finite element nodal integration methods. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 416-446	2.4	170
145	Meshfree Methods: Progress Made after 20 Years. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017001	2.4	169
144	Arbitrary lagrangian-eulerian petrov-galerkin finite elements for nonlinear continua. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1988 , 68, 259-310	5.7	157
143	Locking-free stabilized conforming nodal integration for meshfree Mindlin-Reissner plate formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1065-1083	5.7	147
142	Stabilized conforming nodal integration in the natural-element method. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 60, 861-890	2.4	143
141	Large deformation analysis of rubber based on a reproducing kernel particle method. <i>Computational Mechanics</i> , 1997 , 19, 211-227	4	128
140	Regularization of material instabilities by meshfree approximations with intrinsic length scales. <i>International Journal for Numerical Methods in Engineering</i> , 2000 , 47, 1303-1322	2.4	123
139	An arbitrary order variationally consistent integration for Galerkin meshfree methods. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 95, 387-418	2.4	102
138	The Sandia Fracture Challenge: blind round robin predictions of ductile tearing. <i>International Journal of Fracture</i> , 2014 , 186, 5-68	2.3	92
137	A Hermite reproducing kernel approximation for thin-plate analysis with sub-domain stabilized conforming integration. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 368-390	2.4	85
136	Weighted radial basis collocation method for boundary value problems. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 2736-2757	2.4	83

135	An improved reproducing kernel particle method for nearly incompressible finite elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 181, 117-145	5.7	81
134	Semi-Lagrangian reproducing kernel particle method for fragment-impact problems. <i>International Journal of Impact Engineering</i> , 2011 , 38, 1033-1047	4	72
133	A reproducing kernel method with nodal interpolation property. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 56, 935-960	2.4	70
132	An accelerated, convergent, and stable nodal integration in Galerkin meshfree methods for linear and nonlinear mechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 107, 603-630	2.4	70
131	A constrained reproducing kernel particle formulation for shear deformable shell in Cartesian coordinates. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 68, 151-172	2.4	65
130	Analysis of metal forming process based on meshless method. <i>Journal of Materials Processing Technology</i> , 1998 , 80-81, 642-646	5.3	63
129	An implicit gradient model by a reproducing kernel strain regularization in strain localization problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 2827-2844	5.7	62
128	Error analysis of collocation method based on reproducing kernel approximation. <i>Numerical Methods for Partial Differential Equations</i> , 2011 , 27, 554-580	2.5	52
127	A generalized approximation for the meshfree analysis of solids. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 85, 693-722	2.4	50
126	A locking-free meshfree curved beam formulation with the stabilized conforming nodal integration. <i>Computational Mechanics</i> , 2006 , 39, 83-90	4	50
125	Finite element modeling reveals complex strain mechanics in the aponeuroses of contracting skeletal muscle. <i>Journal of Biomechanics</i> , 2010 , 43, 1243-50	2.9	49
124	Filters, reproducing kernel, and adaptive meshfree method. <i>Computational Mechanics</i> , 2003 , 31, 316-326	4	49
123	A gradient reproducing kernel collocation method for boundary value problems. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 93, 1381-1402	2.4	48
122	Micromechanics-based hyperelastic constitutive modeling of magnetostrictive particle-filled elastomers. <i>Mechanics of Materials</i> , 2002 , 34, 505-516	3.3	47
121	Subdomain radial basis collocation method for heterogeneous media. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 80, 163-190	2.4	45
120	Homogenization of magnetostrictive particle-filled elastomers using an interface-enriched reproducing kernel particle method. <i>Finite Elements in Analysis and Design</i> , 2003 , 39, 765-782	2.2	45
119	A coupled IGAMeshfree discretization of arbitrary order of accuracy and without global geometry parameterization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 293, 20-37	5.7	44
118	Reproducing kernel enhanced local radial basis collocation method. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 75, 600-627	2.4	43

117	Stabilized and variationally consistent nodal integration for meshfree modeling of impact problems. <i>Computational Particle Mechanics</i> , 2014 , 1, 245-256	3	42
116	Semi-Lagrangian reproducing kernel formulation and application to modeling earth moving operations. <i>Mechanics of Materials</i> , 2009 , 41, 670-683	3.3	41
115	A Pressure Projection Method for Nearly Incompressible Rubber Hyperelasticity, Part I: Theory. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1996 , 63, 862-868	2.7	40
114	Some recent improvements in meshfree methods for incompressible finite elasticity boundary value problems with contact. <i>Computational Mechanics</i> , 2000 , 25, 137-156	4	39
113	Subdomain radial basis collocation method for fracture mechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 83, 851-876	2.4	38
112	Lagrangian Meshfree Formulation for Analysis of Geotechnical Materials. <i>Journal of Engineering Mechanics - ASCE</i> , 2001 , 127, 440-449	2.4	38
111	Nonlinear versions of flexurally superconvergent elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1988 , 71, 241-258	5.7	38
110	Meshless shape design sensitivity analysis and optimization for contact problem with friction. <i>Computational Mechanics</i> , 2000 , 25, 157-168	4	37
109	Adaptive ALE finite elements with particular reference to external work rate on frictional interface. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991 , 93, 189-216	5.7	34
108	Finite element modeling of passive material influence on the deformation and force output of skeletal muscle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 9, 163-83	4.1	32
107	Micro-cracks informed damage models for brittle solids. <i>International Journal of Solids and Structures</i> , 2011 , 48, 1560-1571	3.1	32
106	Stabilized conforming nodal integration: exactness and variational justification. <i>Finite Elements in Analysis and Design</i> , 2004 , 41, 147-171	2.2	30
105	Meshfree analysis and design sensitivity analysis for shell structures. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 2087-2116	2.4	30
104	Variationally consistent domain integration for isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 284, 521-540	5.7	28
103	A level set enhanced natural kernel contact algorithm for impact and penetration modeling. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 839-866	2.4	27
102	Die shape design optimization of sheet metal stamping process using meshfree method. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 51, 1385-1405	2.4	27
101	A meshfree-enriched finite element method for compressible and near-incompressible elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 90, 882-914	2.4	26
100	A Pressure Projection Method for Nearly Incompressible Rubber Hyperelasticity, Part II: Applications. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1996 , 63, 869-876	2.7	26

99	Shape Design Optimization of Hyperelastic Structures Using a Meshless Method. <i>AIAA Journal</i> , 1999 , 37, 990-997	2.1	26
98	On the perturbed Lagrangian formulation for nearly incompressible and incompressible hyperelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 142, 335-351	5.7	25
97	Application of Reproducing Kernel Particle Method to Large Deformation Contact Analysis of Elastomers. <i>Rubber Chemistry and Technology</i> , 1998 , 71, 191-213	1.7	25
96	Meshfree modeling of concrete slab perforation using a reproducing kernel particle impact and penetration formulation. <i>International Journal of Impact Engineering</i> , 2015 , 86, 96-110	4	24
95	Consistent finite element procedures for nonlinear rubber elasticity with a higher order strain energy function. <i>Computers and Structures</i> , 1994 , 50, 715-727	4.5	23
94	A variational formulation and a double-grid method for meso-scale modeling of stressed grain growth in polycrystalline materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1277-1303	5.7	22
93	Accelerated meshfree method for metal forming simulation. <i>Finite Elements in Analysis and Design</i> , 2002 , 38, 937-948	2.2	22
92	Design Sensitivity Analysis of Hyperelastic Structures Using a Meshless Method. <i>AIAA Journal</i> , 1998 , 36, 618-627	2.1	22
91	A study on convergence and complexity of reproducing kernel collocation method. <i>Interaction and Multiscale Mechanics</i> , 2009 , 2, 295-319		22
90	RKPM2D: an open-source implementation of nodally integrated reproducing kernel particle method for solving partial differential equations. <i>Computational Particle Mechanics</i> , 2020 , 7, 393-433	3	22
89	A new formulation for air-blast fluid-structure interaction using an immersed approach: part II—Coupling of IGA and meshfree discretizations. <i>Computational Mechanics</i> , 2017 , 60, 101-116	4	21
88	A new algorithm for numerical solution of dynamic elastic-plastic hardening and softening problems. <i>Computers and Structures</i> , 2003 , 81, 1739-1749	4.5	21
87	A physics-constrained data-driven approach based on locally convex reconstruction for noisy database. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 363, 112791	5.7	21
86	A reproducing kernel enhanced approach for peridynamic solutions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 340, 1044-1078	5.7	21
85	Hyperbolic phase field modeling of brittle fracture: Part II—Immersed IGA-RKPM coupling for air-blast-structure interaction. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 121, 114-132	5	20
84	Materials integrity in microsystems: a framework for a petascale predictive-science-based multiscale modeling and simulation system. <i>Computational Mechanics</i> , 2008 , 42, 485-510	4	20
83	Extended meshfree analysis of transverse and inplane loading of a laminated anisotropic plate of general planform geometry. <i>International Journal of Solids and Structures</i> , 2006 , 43, 144-171	3.1	20
82	Adaptive Galerkin Particle Method. <i>Lecture Notes in Computational Science and Engineering</i> , 2003 , 251-265	3	20

81	An extended meshfree method for boundary value problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1085-1103	5.7	18
80	A Structural Nonlinear Analysis Workspace (SNAW) based on meshless methods. <i>Advances in Engineering Software</i> , 1999 , 30, 153-175	3.6	16
79	Nodally integrated implicit gradient reproducing kernel particle method for convection dominated problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 299, 381-400	5.7	16
78	Variationally consistent multi-scale modeling and homogenization of stressed grain growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1825-1848	5.7	15
77	Efficient Meshfree Formulation for Metal Forming Simulations. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2001 , 123, 462-467	1.8	15
76	A Naturally Stabilized Semi-Lagrangian Meshfree Formulation for Multiphase Porous Media with Application to Landslide Modeling. <i>Journal of Engineering Mechanics - ASCE</i> , 2020 , 146, 04020012	2.4	14
75	A stabilized nodally integrated meshfree formulation for fully coupled hydro-mechanical analysis of fluid-saturated porous media. <i>Computers and Fluids</i> , 2016 , 141, 105-115	2.8	14
74	A quasi-linear reproducing kernel particle method. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 109, 1045-1064	2.4	13
73	Dispersion and stability properties of radial basis collocation method for elastodynamics. <i>Numerical Methods for Partial Differential Equations</i> , 2013 , 29, 818-842	2.5	13
72	Orbital HP-Clouds for solving Schrödinger equation in quantum mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 3693-3705	5.7	13
71	Radial basis collocation method and quasi-Newton iteration for nonlinear elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2008 , 24, 991-1017	2.5	13
70	Characteristics of semi- and full discretization of stabilized Galerkin meshfree method. <i>Finite Elements in Analysis and Design</i> , 2002 , 38, 999-1012	2.2	13
69	Stable and flux-conserved meshfree formulation to model shocks. <i>Computational Mechanics</i> , 2016 , 57, 773-792	4	12
68	A stable, meshfree, nodal integration method for nearly incompressible solids. <i>Finite Elements in Analysis and Design</i> , 2012 , 51, 81-85	2.2	12
67	A DAMAGE PARTICLE METHOD FOR SMEARED MODELING OF BRITTLE FRACTURE. <i>International Journal for Multiscale Computational Engineering</i> , 2018 , 16, 303-324	2.4	12
66	A weighted collocation on the strong form with mixed radial basis approximations for incompressible linear elasticity. <i>Computational Mechanics</i> , 2014 , 53, 309-324	4	11
65	Microstructural analysis of skeletal muscle force generation during aging. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020 , 36, e3295	2.6	11
64	Perturbation and stability analysis of strong form collocation with reproducing kernel approximation. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 88, 157-179	2.4	10

63	Wavelet Galerkin method in multi-scale homogenization of heterogeneous media. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 66, 381-403	2.4	10
62	Hydrodynamic meshfree method for high-rate solid dynamics using a Rankine-Hugoniot enhancement in a Riemann-SCNI framework. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 108, 1525-1549	2.4	10
61	Treatment of near-incompressibility in meshfree and immersed-particle methods. <i>Computational Particle Mechanics</i> , 2020 , 7, 309-327	3	10
60	Pixel-based meshfree modelling of skeletal muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016 , 4, 73-85	0.9	9
59	Analysis of hot cracking during lap joint laser welding processes using the melting state-based thermomechanical modeling approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 4373-4386	3.2	9
58	A reproducing kernel smooth contact formulation for metal forming simulations. <i>Computational Mechanics</i> , 2014 , 54, 151-169	4	9
57	Moving least-squares approximation with discontinuous derivative basis functions for shell structures with slope discontinuities. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 76, 1202-1230	2.4	9
56	Multi-scale modelling of heterogeneous materials with fixed and evolving microstructures. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2005 , 13, 95-121	2	9
55	Conforming window functions for meshfree methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 347, 588-621	5.7	9
54	Coupled thermal-mechanical-contact analysis of hot cracking in laser welded lap joints. <i>Journal of Laser Applications</i> , 2017 , 29, 022412	2.1	8
53	Proper orthogonal decomposition-based model order reduction via radial basis functions for molecular dynamics systems. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 96, 599-627	2.4	8
52	Wavelet-based multi-scale coarse graining approach for DNA molecules. <i>Finite Elements in Analysis and Design</i> , 2007 , 43, 346-360	2.2	8
51	Meshfree Smooth Surface Contact Algorithm For Sheet Metal Forming 2000 ,		8
50	Radial basis collocation method for dynamic analysis of axially moving beams. <i>Interaction and Multiscale Mechanics</i> , 2009 , 2, 333-352		8
49	A waveform relaxation Newmark method for structural dynamics problems. <i>Computational Mechanics</i> , 2019 , 63, 1223-1242	4	8
48	Level set topology optimization for design-dependent pressure loads using the reproducing kernel particle method. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 61, 1805-1820	3.6	7
47	An enhanced-strain error estimator for Galerkin meshfree methods based on stabilized conforming nodal integration. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 2144-2171	2.7	7
46	On Computational Issues in Large Deformation Analysis of Rubber Bushings* *Communicated by E. J. Haug. <i>Mechanics Based Design of Structures and Machines</i> , 1997 , 25, 287-309		7

45	Wavelet-based multi-scale projection method in homogenization of heterogeneous media. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 1665-1679	2.2	7
44	A MUSCL-SCNI approach for meshfree modeling of shock waves in fluids. <i>Computational Particle Mechanics</i> , 2020 , 7, 329-350	3	7
43	Role of the Extracellular Matrix in Loss of Muscle Force With Age and Unloading Using Magnetic Resonance Imaging, Biochemical Analysis, and Computational Models. <i>Frontiers in Physiology</i> , 2020 , 11, 626	4.6	6
42	Reproducing Kernel Particle Method for Solving Partial Differential Equations 2017 , 1-44		6
41	Corrected Stabilized Non-conforming Nodal Integration in Meshfree Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 75-92	0.3	6
40	A variational multiscale immersed meshfree method for heterogeneous materials. <i>Computational Mechanics</i> , 2021 , 67, 1059-1097	4	6
39	Thermomechanical numerical analysis of hot cracking during laser welding of 6XXX aluminum alloys. <i>Journal of Laser Applications</i> , 2016 , 28, 022405	2.1	6
38	Manifold learning based data-driven modeling for soft biological tissues. <i>Journal of Biomechanics</i> , 2021 , 117, 110124	2.9	6
37	Stability in Lagrangian and Semi-Lagrangian Reproducing Kernel Discretizations Using Nodal Integration in Nonlinear Solid Mechanics 2007 , 55-76		6
36	A damage analysis for brittle materials using stochastic micro-structural information. <i>Computational Mechanics</i> , 2016 , 57, 371-385	4	5
35	Model order reduction for meshfree solution of Poisson singularity problems. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 1211-1237	2.4	5
34	Variationally consistent coupling of non-matching discretizations for large deformation problems. <i>Computational Mechanics</i> , 2017 , 60, 465-478	4	4
33	A decomposed subspace reduction for fracture mechanics based on the meshfree integrated singular basis function method. <i>Computational Mechanics</i> , 2019 , 63, 593-614	4	4
32	Deep autoencoders for physics-constrained data-driven nonlinear materials modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 385, 114034	5.7	4
31	A stabilized conforming nodal integration for Galerkin mesh-free methods 2001 , 50, 435		4
30	Physics-constrained local convexity data-driven modeling of anisotropic nonlinear elastic solids. <i>Data-Centric Engineering</i> , 2020 , 1,	2.6	3
29	A semi-Lagrangian reproducing kernel particle method with particle-based shock algorithm for explosive welding simulation. <i>Computational Mechanics</i> , 2021 , 67, 1601-1627	4	3
28	A Lagrangian/semi-Lagrangian coupling approach for accelerated meshfree modelling of extreme deformation problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 381, 113827	5.7	3

27	Localized Radial Basis Functions with Partition of Unity Properties 2009 , 37-56		2
26	An iterative asymptotic expansion method for elliptic eigenvalue problems with oscillating coefficients. <i>Computational Mechanics</i> , 2010 , 46, 349-361	4	2
25	Modeling fracture in carbon nanotubes using a meshless atomic-scale finite-element method. <i>Jom</i> , 2008 , 60, 50-55	2.1	2
24	Multiscale Total Lagrangian Formulation for Modeling Dislocation-Induced Plastic Deformation in Polycrystalline Materials. <i>International Journal for Multiscale Computational Engineering</i> , 2006 , 4, 29-46	2.4	2
23	Pixel Based Meshfree Modeling of Skeletal Muscles. <i>Lecture Notes in Computer Science</i> , 2014 , 316-327	0.9	2
22	Atomistic to Continuum Modeling of DNA Molecules 2012 , 1-53		2
21	New boundary condition treatments in meshfree computation of contact problems 2000 , 187, 441-441		2
20	On the continuum formulation for modeling DNA loop formation. <i>Interaction and Multiscale Mechanics</i> , 2011 , 4, 219-237		2
19	A hyper-reduction computational method for accelerated modeling of thermal cycling-induced plastic deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 151, 104385	5	2
18	Regularization of material instabilities by meshfree approximations with intrinsic length scales 2000 , 47, 1303		2
17	Numerical investigation of statistical variation of concrete damage properties between scales. <i>International Journal of Fracture</i> , 2017 , 208, 97-113	2.3	1
16	Image-Based Multiscale Modeling of Porous Bone Materials 2013 , 377-401		1
15	Determining Wheel-Soil Interaction Loads using a Meshfree Finite Element Approach Assisting Future Missions with Rover Wheel Design 2012 ,		1
14	Stability of radial basis collocation method for transient dynamics. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010 , 15, 615-621	0.6	1
13	Extended Meshfree Method for Elastic and Inelastic Media 2005 , 17-38		1
12	RBF-POD reduced-order modeling of DNA molecules under stretching and bending. <i>Interaction and Multiscale Mechanics</i> , 2013 , 6, 395-409		1
11	Level Set Topology Optimization for Design Dependent Pressure Loads: A Comparison Between FEM and RKPM 2019 ,		1
10	Level set topology optimization with nodally integrated reproducing kernel particle method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 385, 114016	5.7	1

9	Multiscale Modeling of Passive Material Influences on Deformation and Force Output of Skeletal Muscles.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022 , e3571	2.6	o
8	A variational multiscale immersed meshfree method for fluid structure interactive systems involving shock waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 389, 114396	5.7	o
7	Preface: special issue of computational mechanics on Connecting Multiscale Mechanics to Complex Material Design <i>Computational Mechanics</i> , 2016 , 57, 355-357	4	
6	Meshfree Analysis of Thin Plates using an Improved Stabilized Conforming Integration Method 2007 , 346-346		
5	Multiscale Approach for Quantum Systems. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 121-139	0.3	
4	Reproducing Kernel Partition of Unity: from Continuum to Quantum 2007 , 167-179		
3	Orbital HP-Clouds for Quantum Systems 2009 , 159-173		
2	MICRO-CRACK INFORMED MULTI-SCALE DAMAGE MODEL: THEORY AND COMPUTATION. <i>Springer Series in Geomechanics and Geoengineering</i> , 2011 , 117-120	0.1	
1	Convergence analysis of reproducing kernel particle method to elliptic eigenvalue problem. <i>Numerical Methods for Partial Differential Equations</i> , 2021 , 37, 2647-2667	2.5	