Yuantong Gu

List of Publications by Year
in descending order

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369	11,247	38660	48187
papers	citations	50 h-index	88 g-index

376	376	376	9506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of biomass burning: Emissions and impacts on air quality, health and climate in China. Science of the Total Environment, 2017, 579, 1000-1034.	3.9	815
2	A point interpolation method for two-dimensional solids. International Journal for Numerical Methods in Engineering, 2001, 50, 937-951.	1.5	681
3	A LOCAL RADIAL POINT INTERPOLATION METHOD (LRPIM) FOR FREE VIBRATION ANALYSES OF 2-D SOLIDS. Journal of Sound and Vibration, 2001, 246, 29-46.	2.1	461
4	Metalâ€Nitrogenâ€Doped Carbon Materials as Highly Efficient Catalysts: Progress and Rational Design. Advanced Science, 2020, 7, 2001069.	5.6	228
5	Graphene-like Two-Dimensional Ionic Boron with Double Dirac Cones at Ambient Condition. Nano Letters, 2016, 16, 3022-3028.	4.5	222
6	A meshfree radial point interpolation method (RPIM) for three-dimensional solids. Computational Mechanics, 2005, 36, 421-430.	2.2	200
7	A meshless local Petrov-Galerkin (MLPG) method for free and forced vibration analyses for solids. Computational Mechanics, 2001, 27, 188-198.	2.2	165
8	A local point interpolation method for static and dynamic analysis of thin beams. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 5515-5528.	3.4	156
9	Mechanical properties of graphene: Effects of layer number, temperature and isotope. Computational Materials Science, 2013, 71, 197-200.	1.4	146
10	An implicit RBF meshless approach for time fractional diffusion equations. Computational Mechanics, 2011, 48, 1-12.	2.2	142
11	A boundary point interpolation method for stress analysis of solids. Computational Mechanics, 2002, 28, 47-54.	2.2	137
12	Point interpolation method based on local residual formulation using radial basis functions. Structural Engineering and Mechanics, 2002, 14, 713-732.	1.0	116
13	MESHFREE METHODS AND THEIR COMPARISONS. International Journal of Computational Methods, 2005, 02, 477-515.	0.8	113
14	Controllable CO2 electrocatalytic reduction via ferroelectric switching on single atom anchored In2Se3 monolayer. Nature Communications, 2021, 12, 5128.	5.8	110
15	A meshfree method: meshfree weak?strong (MWS) form method, for 2-D solids. Computational Mechanics, 2003, 33, 2-14.	2.2	108
16	Three-dimensional off-design numerical analysis of an organic Rankine cycle radial-inflow turbine. Applied Energy, 2014, 135, 202-211.	5.1	104
17	Meshless local Petrov-Galerkin (MLPG) method in combination with finite element and boundary element approaches. Computational Mechanics, 2000, 26, 536-546.	2.2	98
18	Comparison between the radial point interpolation and the Kriging interpolation used in meshfree methods. Computational Mechanics, 2003, 32, 60-70.	2.2	98

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19	A meshless local Kriging method for large deformation analyses. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1673-1684.	3.4	96
20	Time-dependent fractional advection-diffusion equations by an implicit MLS meshless method. International Journal for Numerical Methods in Engineering, 2011, 88, 1346-1362.	1.5	93
21	Pulmonary aerosol transport and deposition analysis in upper 17 generations of the human respiratory tract. Journal of Aerosol Science, 2017, 108, 29-43.	1.8	89
22	Boundary meshfree methods based on the boundary point interpolation methods. Engineering Analysis With Boundary Elements, 2004, 28, 475-487.	2.0	85
23	From brittle to ductile: a structure dependent ductility of diamond nanothread. Nanoscale, 2016, 8, 11177-11184.	2.8	84
24	Thermal Transport in 3D Nanostructures. Advanced Functional Materials, 2020, 30, 1903841.	7.8	83
25	A point interpolation mesh free method for static and frequency analysis of two-dimensional piezoelectric structures. Computational Mechanics, 2002, 29, 510-519.	2.2	79
26	Assessment and applications of point interpolation methods for computational mechanics. International Journal for Numerical Methods in Engineering, 2004, 59, 1373-1397.	1.5	78
27	Coupling of element free Galerkin and hybrid boundary element methods using modified variational formulation. Computational Mechanics, 2000, 26, 166-173.	2.2	76
28	A coupled element free Galerkin/boundary element method for stress analysis of two-dimensional solids. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 4405-4419.	3.4	76
29	A RBF meshless approach for modeling a fractal mobile/immobile transport model. Applied Mathematics and Computation, 2014, 226, 336-347.	1.4	74
30	Meshless techniques for convection dominated problems. Computational Mechanics, 2006, 38, 171-182.	2.2	73
31	A dynamic wheelâ€“rail impact analysis of railway track under wheel flat by finite element analysis. Vehicle System Dynamics, 2013, 51, 784-797.	2.2	73
32	Thermal conductivity of a new carbon nanotube analog: The diamond nanothread. Carbon, 2016, 98, 232-237.	5.4	71
33	Finite element method for space-time fractional diffusion equation. Numerical Algorithms, 2016, 72, 749-767.	1.1	71
34	Fluidâ€“structure interaction analysis by coupled FEâ€“SPH model based on a novel searching algorithm. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 266-286.	3.4	69
35	A Review of Respiratory Anatomical Development, Air Flow Characterization and Particle Deposition. International Journal of Environmental Research and Public Health, 2020, 17, 380.	1.2	68
36	Scanning Electron Microscopic Study of Microstructure of Gala Apples During Hot Air Drying. Drying Technology, 2014, 32, 455-468.	1.7	67

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37	Single Layer Bismuth Iodide: Computational Exploration of Structural, Electrical, Mechanical and Optical Properties. Scientific Reports, 2015, 5, 17558.	1.6	67
38	A radial point interpolation method for simulation of two-dimensional piezoelectric structures. Smart Materials and Structures, 2003, 12, 171-180.	1.8	63
39	Diamond Nanothread as a New Reinforcement for Nanocomposites. Advanced Functional Materials, 2016, 26, 5279-5283.	7.8	63
40	Is the SARS CoV-2 Omicron Variant Deadlier and More Transmissible Than Delta Variant?. International Journal of Environmental Research and Public Health, 2022, 19, 4586.	1.2	63
41	Finite volume and finite element methods for solving a one-dimensional space-fractional Boussinesq equation. Applied Mathematical Modelling, 2014, 38, 3860-3870.	2.2	62
42	The best features of diamond nanothread for nanofibre applications. Nature Communications, 2017, 8, 14863.	5.8	62
43	Graphene and Carbon Nanotube Hybrid Structure: A Review. Procedia IUTAM, 2017, 21, 94-101.	1.2	61
44	Simplest MOF Units for Effective Photodriven Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 9159-9166.	6.6	59
45	Reversible gas capture using a ferroelectric switch and 2D molecule multiferroics on the In₂Se₃ monolayer. Journal of Materials Chemistry A, 2020, 8, 7331-7338.	5.2	59
46	An enriched radial point interpolation method (e-RPIM) for analysis of crack tip fields. Engineering Fracture Mechanics, 2011, 78, 175-190.	2.0	58
47	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoB</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math> monolayer: A robust two-dimensional ferromagnet. Physical Review B, 2019, 99, .	1.1	58
48	A meshfree weak-strong (MWS) form method for time dependent problems. Computational Mechanics, 2005, 35, 134-145.	2.2	57
49	Comparison of the effectiveness of analytical wake models for wind farm with constant and variable hub heights. Energy Conversion and Management, 2016, 124, 189-202.	4.4	57
50	Distorted Janus Transition Metal Dichalcogenides: Stable Two-Dimensional Materials with Sizable Band Gap and Ultrahigh Carrier Mobility. Journal of Physical Chemistry C, 2018, 122, 19153-19160.	1.5	55
51	A meshless method based on Point Interpolation Method (PIM) for the space fractional diffusion equation. Applied Mathematics and Computation, 2015, 256, 930-938.	1.4	53
52	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. PLoS ONE, 2019, 14, e0215447.	1.1	53
53	Comparisons of two meshfree local point interpolation methods for structural analyses. Computational Mechanics, 2002, 29, 107-121.	2.2	52
54	Coupling of the meshfree and finite element methods for determination of the crack tip fields. Engineering Fracture Mechanics, 2008, 75, 986-1004.	2.0	52

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55	Modelling of simultaneous heat and mass transfer considering the spatial distribution of air velocity during intermittent microwave convective drying. International Journal of Heat and Mass Transfer, 2020, 153, 119668.	2.5	52
56	Conversion of Catalytically Inert 2D Bismuth Oxide Nanosheets for Effective Electrochemical Hydrogen Evolution Reaction Catalysis via Oxygen Vacancy Concentration Modulation. Nano-Micro Letters, 2022, 14, 90.	14.4	51
57	Predicting a new phase (Tâ€²â€²) of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. Nanoscale, 2016, 8, 4969-4975.	2.8	50
58	Simultaneous removal of cationic and anionic heavy metal contaminants from electroplating effluent by hydrotalcite adsorbent with disulfide (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (xmlns:mml="http://www.w3.org/199 intercalation. Journal of Hazardous Materials, 2020, 382, 121111.	6.5	48
59	Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI₃/CrGeTe₃ Nanostructures for Spintronics. ACS Applied Nano Materials, 2020, 3, 1282-1288.	2.4	47
60	Application of porous metal foam heat exchangers and the implications of particulate fouling for energy-intensive industries. Chemical Engineering Science, 2020, 228, 115968.	1.9	47
61	Application of Meshless Local Petrov-Galerkin (MLPG) Approach to Simulation of Incompressible Flow. Numerical Heat Transfer, Part B: Fundamentals, 2005, 48, 459-475.	0.6	46
62	AN ADVANCED MESHLESS METHOD FOR TIME FRACTIONAL DIFFUSION EQUATION. International Journal of Computational Methods, 2011, 08, 653-665.	0.8	46
63	Temperature and strain-rate dependent fracture strength of graphynes. Journal Physics D: Applied Physics, 2014, 47, 425301.	1.3	46
64	The morphology and temperature dependent tensile properties of diamond nanothreads. Carbon, 2016, 107, 304-309.	5.4	46
65	High density mechanical energy storage with carbon nanothread bundle. Nature Communications, 2020, 11, 1905.	5.8	45
66	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. Acta Biomaterialia, 2015, 27, 275-285.	4.1	44
67	Modeling heat transfer during friction stir welding using a meshless particle method. International Journal of Heat and Mass Transfer, 2017, 104, 288-300.	2.5	43
68	A matrix triangularization algorithm for the polynomial point interpolation method. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 2269-2295.	3.4	42
69	Hybrid boundary point interpolation methods and their coupling with the element free Galerkin method. Engineering Analysis With Boundary Elements, 2003, 27, 905-917.	2.0	42
70	Graphene helicoid as novel nanospring. Carbon, 2017, 120, 258-264.	5.4	42
71	Engineering the mechanical properties of CNT/PEEK nanocomposites. RSC Advances, 2019, 9, 12836-12845.	1.7	42
72	Single layer diamond - A new ultrathin 2D carbon nanostructure for mechanical resonator. Carbon, 2020, 161, 809-815.	5.4	42

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73	Unsteady natural convection within a differentially heated enclosure of sinusoidal corrugated side walls. International Journal of Heat and Mass Transfer, 2012, 55, 5696-5708.	2.5	40
74	A particle based model to simulate microscale morphological changes of plant tissues during drying. Soft Matter, 2014, 10, 5249-5268.	1.2	40
75	Efficient Removal of Cationic and Anionic Radioactive Pollutants from Water Using Hydrotalcite-Based Getters. ACS Applied Materials & Interfaces, 2016, 8, 16503-16510.	4.0	40
76	Design tools for patient specific and highly controlled melt electrowritten scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 105, 103695.	1.5	39
77	A new constraint handling method for wind farm layout optimization with lands owned by different owners. Renewable Energy, 2015, 83, 151-161.	4.3	38
78	Comparative study on optimizing the wind farm layout using different design methods and cost models. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 146, 1-10.	1.7	38
79	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. Acta Biomaterialia, 2018, 80, 121-130.	4.1	38
80	A coupled SPH-DEM model for micro-scale structural deformations of plant cells during drying. Applied Mathematical Modelling, 2014, 38, 3781-3801.	2.2	37
81	A multiscale evaluation of the surface integrity in boring trepanning association deep hole drilling. International Journal of Machine Tools and Manufacture, 2017, 123, 48-56.	6.2	37
82	Two dimensional boron nanosheets: synthesis, properties and applications. Physical Chemistry Chemical Physics, 2018, 20, 28964-28978.	1.3	37
83	Underlying burning resistant mechanisms for titanium alloy. Materials and Design, 2018, 156, 588-595.	3.3	37
84	An extended Galerkin weak form and a point interpolation method with continuous strain field and superconvergence using triangular mesh. Computational Mechanics, 2009, 43, 651-673.	2.2	36
85	A fundamental numerical and theoretical study for the vibrational properties of nanowires. Journal of Applied Physics, 2012, 111, 124303.	1.1	36
86	Numerical investigation of the temporal evolution of particulate fouling in metal foams for air-cooled heat exchangers. Applied Energy, 2016, 184, 531-547.	5.1	36
87	Structure-mediated thermal transport of monolayer graphene allotropes nanoribbons. Carbon, 2014, 77, 416-423.	5.4	35
88	Numerical exploration of plastic deformation mechanisms of copper nanowires with surface defects. Computational Materials Science, 2011, 50, 3425-3430.	1.4	34
89	Beat phenomena in metal nanowires, and their implications for resonance-based elastic property measurements. Nanoscale, 2012, 4, 6779.	2.8	34
90	Ultrafine particle transport and deposition in a large scale 17-generation lung model. Journal of Biomechanics, 2017, 64, 16-25.	0.9	34

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91	Accurate Multi-Physics Numerical Analysis of Particle Preconcentration Based on Ion Concentration Polarization. International Journal of Applied Mechanics, 2017, 09, 1750107.	1.3	34
92	A new data-driven topology optimization framework for structural optimization. Computers and Structures, 2020, 239, 106310.	2.4	34
93	Theoretical and numerical investigation of bending properties of Cu nanowires. Computational Materials Science, 2012, 55, 73-80.	1.4	33
94	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. Scientific Reports, 2016, 6, 24323.	1.6	33
95	Impact of Nanoparticle Uptake on the Biophysical Properties of Cell for Biomedical Engineering Applications. Scientific Reports, 2019, 9, 5859.	1.6	33
96	Effect of Reynolds numbers on flow past four square cylinders in an in-line square configuration for different gap spacings. Journal of Mechanical Science and Technology, 2014, 28, 539-552.	0.7	32
97	Euler-Lagrange Prediction of Diesel-Exhaust Polydisperse Particle Transport and Deposition in Lung: Anatomy and Turbulence Effects. Scientific Reports, 2019, 9, 12423.	1.6	32
98	Optical coherence tomography-based patient-specific coronary artery reconstruction and fluidâ€“structure interaction simulation. Biomechanics and Modeling in Mechanobiology, 2020, 19, 7-20.	1.4	32
99	SARS CoV-2 aerosol: How far it can travel to the lower airways?. Physics of Fluids, 2021, 33, 061903.	1.6	32
100	Graphene ripples generated by grain boundaries in highly ordered pyrolytic graphite. Carbon, 2014, 68, 330-336.	5.4	31
101	Investigation of red blood cell mechanical properties using AFM indentation and coarse-grained particle method. BioMedical Engineering OnLine, 2017, 16, 140.	1.3	31
102	Suppressed Thermal Conductivity of Bilayer Graphene with Vacancy-Initiated Linkages. Journal of Physical Chemistry C, 2015, 119, 1748-1752.	1.5	30
103	Failure mechanism of monolayer graphene under hypervelocity impact of spherical projectile. Scientific Reports, 2016, 6, 33139.	1.6	30
104	Neutral and charged boron-doped fullerenes for CO₂ adsorption. Beilstein Journal of Nanotechnology, 2014, 5, 413-418.	1.5	29
105	Application of meshfree methods to numerically simulate microscale deformations of different plant food materials during drying. Journal of Food Engineering, 2015, 146, 209-226.	2.7	29
106	Polydisperse Microparticle Transport and Deposition to the Terminal Bronchioles in a Heterogeneous Vasculature Tree. Scientific Reports, 2018, 8, 16387.	1.6	29
107	Biophysical response of living cells to boron nitride nanoparticles: uptake mechanism and bio-mechanical characterization. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	28
108	Mechanical Properties of Penta-Graphene Nanotubes. Journal of Physical Chemistry C, 2017, 121, 9642-9647.	1.5	28

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109	Optimization of wind farm layout with complex land divisions. Renewable Energy, 2017, 105, 30-40.	4.3	28
110	Reproducing kernel particle method for two-dimensional time-space fractional diffusion equations in irregular domains. Engineering Analysis With Boundary Elements, 2018, 97, 131-143.	2.0	28
111	Polydisperse Aerosol Transport and Deposition in Upper Airways of Age-Specific Lung. International Journal of Environmental Research and Public Health, 2021, 18, 6239.	1.2	28
112	Machine learningâ€based modeling in food processing applications: State of the art. Comprehensive Reviews in Food Science and Food Safety, 2022, 21, 1409-1438.	5.9	28
113	Tensile properties of a boron/nitrogen-doped carbon nanotubeâ€“graphene hybrid structure. Beilstein Journal of Nanotechnology, 2014, 5, 329-336.	1.5	27
114	A novel control strategy approach to optimally design a wind farm layout. Renewable Energy, 2016, 95, 10-21.	4.3	27
115	Analysis of particle-laden fluid flows, tortuosity and particle-fluid behaviour in metal foam heat exchangers. Chemical Engineering Science, 2017, 172, 677-687.	1.9	27
116	Novel trends in numerical modelling of plant food tissues and their morphological changes during drying â€“ A review. Journal of Food Engineering, 2017, 194, 24-39.	2.7	27
117	Breakdown of Hooke's law at the nanoscale â€“ 2D material-based nanosprings. Nanoscale, 2018, 10, 18961-18968.	2.8	27
118	Modeling of mass transfer enhancement in a magnetofluidic micromixer. Physics of Fluids, 2019, 31, .	1.6	27
119	Tuning Magnetism of Metal Porphyrazine Molecules by a Ferroelectric In₂Se₃ Monolayer. ACS Applied Materials & Interfaces, 2020, 12, 39561-39566.	4.0	27
120	Low interfacial thermal resistance between crossed ultra-thin carbon nanothreads. Carbon, 2020, 165, 216-224.	5.4	27
121	Thermal conductivity of configurable two-dimensional carbon nanotube architecture and strain modulation. Applied Physics Letters, 2014, 105, .	1.5	26
122	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. Renewable Energy, 2018, 126, 819-829.	4.3	26
123	How severe acute respiratory syndrome coronavirus-2 aerosol propagates through the age-specific upper airways. Physics of Fluids, 2021, 33, 081911.	1.6	26
124	Investigation of Cell-Substrate Adhesion Properties of Living Chondrocyte by Measuring Adhesive Shear Force and Detachment Using AFM and Inverse FEA. Scientific Reports, 2016, 6, 38059.	1.6	25
125	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. Journal of Physical Chemistry C, 2018, 122, 7605-7612.	1.5	25
126	2D ferroelectric devices: working principles and research progress. Physical Chemistry Chemical Physics, 2021, 23, 21376-21384.	1.3	25

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127	The stress-strain relationship of liquid marbles under compression. Applied Physics Letters, 2019, 114, 043701.	1.5	24
128	Interaction of gold nanosurfaces/nanoparticles with collagen-like peptides. Physical Chemistry Chemical Physics, 2019, 21, 3701-3711.	1.3	24
129	Multiferroic decorated Fe₂O₃ monolayer predicted from first principles. Nanoscale, 2020, 12, 14847-14852.	2.8	24
130	Simulation of plant cell shrinkage during drying â€“ A SPHâ€“DEM approach. Engineering Analysis With Boundary Elements, 2014, 44, 1-18.	2.0	23
131	Numerical investigation of plant tissue porosity and its influence on cellular level shrinkage during drying. Biosystems Engineering, 2015, 132, 71-87.	1.9	23
132	An advanced numerical modeling for Riesz space fractional advectionâ€“dispersion equations by a meshfree approach. Applied Mathematical Modelling, 2016, 40, 7816-7829.	2.2	23
133	Strained graphitic carbon nitride for hydrogen purification. Journal of Membrane Science, 2017, 528, 201-205.	4.1	23
134	A computationally-efficient layout optimization method for real wind farms considering altitude variations. Energy, 2017, 132, 147-159.	4.5	23
135	A Concurrent Multiscale Method Based on the Meshfree Method and Molecular Dynamics Analysis. Multiscale Modeling and Simulation, 2006, 5, 1128-1155.	0.6	22
136	Design methods of rhombic tensegrity structures. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 559-565.	1.5	22
137	A HYBRID SMOOTHED FINITE ELEMENT METHOD (H-SFEM) TO SOLID MECHANICS PROBLEMS. International Journal of Computational Methods, 2013, 10, 1340011.	0.8	22
138	Thermal conductivity of Si nanowires with faulted stacking layers. Journal Physics D: Applied Physics, 2014, 47, 015303.	1.3	22
139	Natural convection in a triangular enclosure heated from below and non-uniformly cooled from top. International Journal of Heat and Mass Transfer, 2015, 80, 529-538.	2.5	22
140	Meshless methods coupled with other numerical methods. Tsinghua Science and Technology, 2005, 10, 8-15.	4.1	21
141	Hierarchical multiscale model for biomechanics analysis of microfilament networks. Journal of Applied Physics, 2013, 113, 194701.	1.1	21
142	Acoustic analysis using a mass-redistributed smoothed finite element method with quadrilateral mesh. Engineering Computations, 2015, 32, 2292-2317.	0.7	21
143	A three-dimensional hybrid smoothed finite element method (H-SFEM) for nonlinear solid mechanics problems. Acta Mechanica, 2015, 226, 4223-4245.	1.1	21
144	Theoretical investigation of calcium-decorated Î²12 boron sheet for hydrogen storage. Chemical Physics Letters, 2018, 695, 211-215.	1.2	21

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145	Development of realistic food microstructure considering the structural heterogeneity of cells and intercellular space. Food Structure, 2018, 15, 9-16.	2.3	21
146	Characterisation on the hygrothermal degradation in the mechanical property of structural adhesive: A novel meso-scale approach. Composites Part B: Engineering, 2020, 182, 107609.	5.9	21
147	Modified beam theories for bending properties of nanowires considering surface/intrinsic effects and axial extension effect. Journal of Applied Physics, 2012, 111, .	1.1	20
148	Heterogeneous nanomechanical properties of type I collagen in longitudinal direction. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1023-1033.	1.4	20
149	Notch expressed by osteocytes plays a critical role in mineralisation. Journal of Molecular Medicine, 2018, 96, 333-347.	1.7	20
150	Steered molecular dynamics characterization of the elastic modulus and deformation mechanisms of single natural tropocollagen molecules. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 359-367.	1.5	20
151	Aberrant activation of Wnt signaling pathway altered osteocyte mineralization. Bone, 2019, 127, 324-333.	1.4	20
152	Adsorption of Collagen-like Peptides onto Gold Nanosurfaces. Langmuir, 2019, 35, 4435-4444.	1.6	20
153	Development of Mechanically Enhanced Polycaprolactone Composites by a Functionalized Titanate Nanofiller for Melt Electrowriting in 3D Printing. ACS Applied Materials & Interfaces, 2020, 12, 47993-48006.	4.0	20
154	Hydrogen-Intercalated 2D Magnetic Bilayer: Controlled Magnetic Phase Transition and Half-Metallicity via Ferroelectric Switching. ACS Applied Materials & Interfaces, 2022, 14, 1800-1806.	4.0	20
155	A coupled finite volume & discrete element method to examine particulate foulant transport in metal foam heat exchangers. International Journal of Heat and Mass Transfer, 2017, 115, 43-61.	2.5	19
156	A new regularization method for the dynamic load identification of stochastic structures. Computers and Mathematics With Applications, 2018, 76, 741-759.	1.4	19
157	Numerical Study of Impact Forces on Railway Sleepers under Wheel Flat. Advances in Structural Engineering, 2013, 16, 127-134.	1.2	18
158	Exploration of mechanisms underlying the strain-rate-dependent mechanical property of single chondrocytes. Applied Physics Letters, 2014, 104, 183701.	1.5	18
159	Mechanical bending properties of sodium titanate (Na₂Ti₃O₇) nanowires. RSC Advances, 2014, 4, 56970-56976.	1.7	18
160	Numerical Investigation of Case Hardening of Plant Tissue During Drying and Its Influence on the Cellular-Level Shrinkage. Drying Technology, 2015, 33, 713-734.	1.7	18
161	Substantial Band-Gap Tuning and a Strain-Controlled Semiconductor to Gapless/Band-Inverted Semimetal Transition in Rutile Lead/Stannic Dioxide. ACS Applied Materials & Interfaces, 2016, 8, 25667-25673.	4.0	18
162	SPH-DEM approach to numerically simulate the deformation of three-dimensional RBCs in non-uniform capillaries. BioMedical Engineering OnLine, 2016, 15, 161.	1.3	18

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163	A Comparative Study of Mixed Resolvedâ€“Unresolved CFD-DEM and Unresolved CFD-DEM Methods for the Solution of Particle-Laden Liquid Flows. Archives of Computational Methods in Engineering, 2019, 26, 1239-1254.	6.0	18
164	A general Neural Particle Method for hydrodynamics modeling. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114740.	3.4	18
165	Surface effects on the dual-mode vibration of âŒ©1â€‰1â€‰0âŒª silver nanowires with different cross-sections. Journal Physics D: Applied Physics, 2012, 45, 465304.	1.3	17
166	Bending properties of Ag nanowires with pre-existing surface defects. Computational Materials Science, 2014, 81, 45-51.	1.4	17
167	Control of flow around a circular cylinder wrapped with a porous layer by magnetohydrodynamic. Journal of Magnetism and Magnetic Materials, 2016, 401, 1078-1087.	1.0	17
168	Impact and energy absorption of portable water-filled road safety barrier system fitted with foam. International Journal of Impact Engineering, 2014, 72, 26-39.	2.4	16
169	Molecular insights on the interference of simplified lung surfactant models by gold nanoparticle pollutants. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1458-1467.	1.4	16
170	Steady Natural Convection of Non-Newtonian Power-Law Fluid in a Trapezoidal Enclosure. Advances in Mechanical Engineering, 2013, 5, 653108.	0.8	16
171	Analysis of microelectromechanical systems (mems) by meshless local kriging (lokriging) method. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2004, 27, 573-583.	0.6	15
172	Mechanical properties of bioinspired bicontinuous nanocomposites. Computational Materials Science, 2013, 80, 71-78.	1.4	15
173	Determination of Strain-Rate-Dependent Mechanical Behavior of Living and Fixed Osteocytes and Chondrocytes Using Atomic Force Microscopy and Inverse Finite Element Analysis. Journal of Biomechanical Engineering, 2014, 136, 101004.	0.6	15
174	Turbulent dense gas flow characteristics in swirling conical diffuser. Computers and Fluids, 2017, 149, 100-118.	1.3	15
175	Coupled CFD-DEM simulation of oscillatory particle-laden fluid flow through a porous metal foam heat exchanger: Mitigation of particulate fouling. Chemical Engineering Science, 2018, 179, 32-52.	1.9	15
176	In situ mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. Nanoscale, 2018, 10, 2588-2595.	2.8	15
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