Yuantong Gu

List of Publications by Citations

342 papers	8,245 citations	44 h-index	75 g-index
376 ext. papers	9,731 ext. citations	4.6 avg, IF	6.63 L-index

#	Paper	IF	Citations
342	A point interpolation method for two-dimensional solids. *International Journal for Numerical Methods in Engineering*, **2001**, 50, 937-951	2.4	572
341	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	10.2	551
340	A LOCAL RADIAL POINT INTERPOLATION METHOD (LRPIM) FOR FREE VIBRATION ANALYSES OF 2-D SOLIDS. *Journal of Sound and Vibration*, **2001**, 246, 29-46	3.9	391
339	Graphene-like Two-Dimensional Ionic Boron with Double Dirac Cones at Ambient Condition. *Nano Letters*, **2016**, 16, 3022-8	11.5	170
338	A meshfree radial point interpolation method (RPIM) for three-dimensional solids. *Computational Mechanics*, **2005**, 36, 421-430	4	155
337	A meshless local Petrov-Galerkin (MLPG) method for free and forced vibration analyses for solids. *Computational Mechanics*, **2001**, 27, 188-198	4	147
336	An implicit RBF meshless approach for time fractional diffusion equations. *Computational Mechanics*, **2011**, 48, 1-12	4	127
335	A boundary point interpolation method for stress analysis of solids. *Computational Mechanics*, **2002** , 28, 47-54	4	123
334	A local point interpolation method for static and dynamic analysis of thin beams. *Computer Methods in Applied Mechanics and Engineering*, **2001**, 190, 5515-5528	5.7	121
333	Mechanical properties of graphene: Effects of layer number, temperature and isotope. *Computational Materials Science*, **2013**, 71, 197-200	3.2	107
332	Point interpolation method based on local residual formulation using radial basis functions. *Structural Engineering and Mechanics*, **2002**, 14, 713-732		106
331	Metal-Nitrogen-Doped Carbon Materials as Highly Efficient Catalysts: Progress and Rational Design. *Advanced Science*, **2020**, 7, 2001069	13.6	91
330	A meshfree method: meshfree weak-strong (MWS) form method, for 2-D solids. *Computational Mechanics*, **2003**, 33, 2-14	4	90
329	MESHFREE METHODS AND THEIR COMPARISONS. *International Journal of Computational Methods*, **2005**, 02, 477-515	1.1	89
328	Meshless local Petrov-Galerkin (MLPG) method in combination with finite element and boundary element approaches. *Computational Mechanics*, **2000**, 26, 536-546	4	86
327	Three-dimensional off-design numerical analysis of an organic Rankine cycle radial-inflow turbine. *Applied Energy*, **2014**, 135, 202-211	10.7	84
326	A meshless local Kriging method for large deformation analyses. *Computer Methods in Applied Mechanics and Engineering*, **2007**, 196, 1673-1684	5.7	83

325	Comparison between the radial point interpolation and the Kriging interpolation used in meshfree methods. *Computational Mechanics*, **2003**, 32, 60-70	4	83
324	Boundary meshfree methods based on the boundary point interpolation methods. *Engineering Analysis With Boundary Elements*, **2004**, 28, 475-487	2.6	76
323	Time-dependent fractional advection–diffusion equations by an implicit MLS meshless method. *International Journal for Numerical Methods in Engineering*, **2011**, 88, 1346-1362	2.4	73
322	Assessment and applications of point interpolation methods for computational mechanics. *International Journal for Numerical Methods in Engineering*, **2004**, 59, 1373-1397	2.4	70
321	A point interpolation mesh free method for static and frequency analysis of two-dimensional piezoelectric structures. *Computational Mechanics*, **2002**, 29, 510-519	4	70
320	Coupling of element free Galerkin and hybrid boundary element methods using modified variational formulation. *Computational Mechanics*, **2000**, 26, 166-173	4	69
319	From brittle to ductile: a structure dependent ductility of diamond nanothread. *Nanoscale*, **2016**, 8, 11177-84	7.7	65
318	A RBF meshless approach for modeling a fractal mobile/immobile transport model. *Applied Mathematics and Computation*, **2014**, 226, 336-347	2.7	64
317	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	5.7	64
316	Meshless techniques for convection dominated problems. *Computational Mechanics*, **2006**, 38, 171-182	4	62
315	A radial point interpolation method for simulation of two-dimensional piezoelectric structures. *Smart Materials and Structures*, **2003**, 12, 171-180	3.4	58
314	Finite volume and finite element methods for solving a one-dimensional space-fractional Boussinesq equation. *Applied Mathematical Modelling*, **2014**, 38, 3860-3870	4.5	57
313	Scanning Electron Microscopic Study of Microstructure of Gala Apples During Hot Air Drying. *Drying Technology*, **2014**, 32, 455-468	2.6	56
312	A dynamic wheel–rail impact analysis of railway track under wheel flat by finite element analysis. *Vehicle System Dynamics*, **2013**, 51, 784-797	2.8	56
311	Thermal conductivity of a new carbon nanotube analog: The diamond nanothread. *Carbon*, **2016**, 98, 232-237	10.4	55
310	Fluid–structure interaction analysis by coupled FE–SPH model based on a novel searching algorithm. *Computer Methods in Applied Mechanics and Engineering*, **2014**, 276, 266-286	5.7	55
309	Thermal Transport in 3D Nanostructures. *Advanced Functional Materials*, **2020**, 30, 1903841	15.6	54
308	Pulmonary aerosol transport and deposition analysis in upper 17 generations of the human respiratory tract. *Journal of Aerosol Science*, **2017**, 108, 29-43	4.3	53

307	Single Layer Bismuth Iodide: Computational Exploration of Structural, Electrical, Mechanical and Optical Properties. *Scientific Reports*, **2015**, 5, 17558	4.9	53
306	A meshfree weak-strong (MWS) form method for time dependent problems. *Computational Mechanics*, **2005**, 35, 134-145	4	50
305	Diamond Nanothread as a New Reinforcement for Nanocomposites. *Advanced Functional Materials*, **2016**, 26, 5279-5283	15.6	49
304	An enriched radial point interpolation method (e-RPIM) for analysis of crack tip fields. *Engineering Fracture Mechanics*, **2011**, 78, 175-190	4.2	48
303	Finite element method for space-time fractional diffusion equation. *Numerical Algorithms*, **2016**, 72, 749-767	2.1	46
302	Comparisons of two meshfree local point interpolation methods for structural analyses. *Computational Mechanics*, **2002**, 29, 107-121	4	46
301	Coupling of the meshfree and finite element methods for determination of the crack tip fields. *Engineering Fracture Mechanics*, **2008**, 75, 986-1004	4.2	45
300	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	10.6	44
299	Predicting a new phase (T'') of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. *Nanoscale*, **2016**, 8, 4969-75	7.7	44
298	A meshless method based on Point Interpolation Method (PIM) for the space fractional diffusion equation. *Applied Mathematics and Computation*, **2015**, 256, 930-938	2.7	44
297	The best features of diamond nanothread for nanofibre applications. *Nature Communications*, **2017**, 8, 14863	17.4	43
296	Simplest MOF Units for Effective Photodriven Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 9159-9166	16.4	43
295	CoB6 monolayer: A robust two-dimensional ferromagnet. *Physical Review B*, **2019**, 99,	3.3	42
294	Graphene and Carbon Nanotube Hybrid Structure: A Review. *Procedia IUTAM*, **2017**, 21, 94-101		41
293	A Review of Respiratory Anatomical Development, Air Flow Characterization and Particle Deposition. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	40
292	Application of Meshless Local Petrov-Galerkin (MLPG) Approach to Simulation of Incompressible Flow. *Numerical Heat Transfer, Part B: Fundamentals*, **2005**, 48, 459-475	1.3	39
291	Hybrid boundary point interpolation methods and their coupling with the element free Galerkin method. *Engineering Analysis With Boundary Elements*, **2003**, 27, 905-917	2.6	39
290	The morphology and temperature dependent tensile properties of diamond nanothreads. *Carbon*, **2016**, 107, 304-309	10.4	37

289	Temperature and strain-rate dependent fracture strength of graphynes. *Journal Physics D: Applied Physics*, **2014**, 47, 425301	3	37
288	AN ADVANCED MESHLESS METHOD FOR TIME FRACTIONAL DIFFUSION EQUATION. *International Journal of Computational Methods*, **2011**, 08, 653-665	1.1	37
287	Unsteady natural convection within a differentially heated enclosure of sinusoidal corrugated side walls. *International Journal of Heat and Mass Transfer*, **2012**, 55, 5696-5708	4.9	35
286	A particle based model to simulate microscale morphological changes of plant tissues during drying. *Soft Matter*, **2014**, 10, 5249-68	3.6	34
285	A coupled SPH-DEM model for micro-scale structural deformations of plant cells during drying. *Applied Mathematical Modelling*, **2014**, 38, 3781-3801	4.5	33
284	Graphene helicoid as novel nanospring. *Carbon*, **2017**, 120, 258-264	10.4	32
283	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. *Acta Biomaterialia*, **2015**, 27, 275-285	10.8	32
282	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	3.8	32
281	Structure-mediated thermal transport of monolayer graphene allotropes nanoribbons. *Carbon*, **2014**, 77, 416-423	10.4	31
280	Modeling heat transfer during friction stir welding using a meshless particle method. *International Journal of Heat and Mass Transfer*, **2017**, 104, 288-300	4.9	31
279	A fundamental numerical and theoretical study for the vibrational properties of nanowires. *Journal of Applied Physics*, **2012**, 111, 124303	2.5	31
278	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	4.9	30
277	A new constraint handling method for wind farm layout optimization with lands owned by different owners. *Renewable Energy*, **2015**, 83, 151-161	8.1	30
276	Numerical exploration of plastic deformation mechanisms of copper nanowires with surface defects. *Computational Materials Science*, **2011**, 50, 3425-3430	3.2	30
275	A matrix triangularization algorithm for the polynomial point interpolation method. *Computer Methods in Applied Mechanics and Engineering*, **2003**, 192, 2269-2295	5.7	30
274	Controllable CO electrocatalytic reduction via ferroelectric switching on single atom anchored InSe monolayer. *Nature Communications*, **2021**, 12, 5128	17.4	30
273	Reversible gas capture using a ferroelectric switch and 2D molecule multiferroics on the In2Se3 monolayer. *Journal of Materials Chemistry A*, **2020**, 8, 7331-7338	13	29
272	Numerical investigation of the temporal evolution of particulate fouling in metal foams for air-cooled heat exchangers. *Applied Energy*, **2016**, 184, 531-547	10.7	29

271	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. *Scientific Reports*, **2016**, 6, 24323	4.9	29
270	Efficient Removal of Cationic and Anionic Radioactive Pollutants from Water Using Hydrotalcite-Based Getters. *ACS Applied Materials & Interfaces*, **2016**, 8, 16503-10	9.5	29
269	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	3.7	29
268	Graphene ripples generated by grain boundaries in highly ordered pyrolytic graphite. *Carbon*, **2014**, 68, 330-336	10.4	28
267	Neutral and charged boron-doped fullerenes for CO2 adsorption. *Beilstein Journal of Nanotechnology*, **2014**, 5, 413-8	3	28
266	Beat phenomena in metal nanowires, and their implications for resonance-based elastic property measurements. *Nanoscale*, **2012**, 4, 6779-85	7.7	28
265	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	1.6	27
264	Ultrafine particle transport and deposition in a large scale 17-generation lung model. *Journal of Biomechanics*, **2017**, 64, 16-25	2.9	27
263	Theoretical and numerical investigation of bending properties of Cu nanowires. *Computational Materials Science*, **2012**, 55, 73-80	3.2	27
262	Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI3/CrGeTe3 Nanostructures for Spintronics. *ACS Applied Nano Materials*, **2020**, 3, 1282-1288	5.6	27
261	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. *Acta Biomaterialia*, **2018**, 80, 121-130	10.8	27
260	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. *PLoS ONE*, **2019**, 14, e0215447	3.7	25
259	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	4	25
258	Simultaneous removal of cationic and anionic heavy metal contaminants from electroplating effluent by hydrotalcite adsorbent with disulfide (S) intercalation. *Journal of Hazardous Materials*, **2020**, 382, 121111	12.8	25
257	Two dimensional boron nanosheets: synthesis, properties and applications. *Physical Chemistry Chemical Physics*, **2018**, 20, 28964-28978	3.6	25
256	Mechanical Properties of Penta-Graphene Nanotubes. *Journal of Physical Chemistry C*, **2017**, 121, 9642-9647	3.7	24
255	Optimization of wind farm layout with complex land divisions. *Renewable Energy*, **2017**, 105, 30-40	8.1	24
254	Suppressed Thermal Conductivity of Bilayer Graphene with Vacancy-Initiated Linkages. *Journal of Physical Chemistry C*, **2015**, 119, 1748-1752	3.8	24

253	Thermal conductivity of configurable two-dimensional carbon nanotube architecture and strain modulation. *Applied Physics Letters*, **2014**, 105, 153105	3.4	24
252	Engineering the mechanical properties of CNT/PEEK nanocomposites.. *RSC Advances*, **2019**, 9, 12836-12845	3.7	23
251	Biophysical response of living cells to boron nitride nanoparticles: uptake mechanism and bio-mechanical characterization. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	23
250	Application of meshfree methods to numerically simulate microscale deformations of different plant food materials during drying. *Journal of Food Engineering*, **2015**, 146, 209-226	6	23
249	Accurate Multi-Physics Numerical Analysis of Particle Preconcentration Based on Ion Concentration Polarization. *International Journal of Applied Mechanics*, **2017**, 09, 1750107	2.4	23
248	Euler-Lagrange Prediction of Diesel-Exhaust Polydisperse Particle Transport and Deposition in Lung: Anatomy and Turbulence Effects. *Scientific Reports*, **2019**, 9, 12423	4.9	22
247	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	9.4	22
246	A novel control strategy approach to optimally design a wind farm layout. *Renewable Energy*, **2016**, 95, 10-21	8.1	22
245	Single layer diamond - A new ultrathin 2D carbon nanostructure for mechanical resonator. *Carbon*, **2020**, 161, 809-815	10.4	21
244	High density mechanical energy storage with carbon nanothread bundle. *Nature Communications*, **2020**, 11, 1905	17.4	21
243	Design methods of rhombic tensegrity structures. *Acta Mechanica Sinica/Lixue Xuebao*, **2010**, 26, 559-565	2	21
242	Meshless methods coupled with other numerical methods. *Tsinghua Science and Technology*, **2005**, 10, 8-15	3.4	21
241	An advanced numerical modeling for Riesz space fractional advection-dispersion equations by a meshfree approach. *Applied Mathematical Modelling*, **2016**, 40, 7816-7829	4.5	21
240	Polydisperse Microparticle Transport and Deposition to the Terminal Bronchioles in a Heterogeneous Vasculature Tree. *Scientific Reports*, **2018**, 8, 16387	4.9	21
239	The stress-strain relationship of liquid marbles under compression. *Applied Physics Letters*, **2019**, 114, 043701	3.4	20
238	Impact of Nanoparticle Uptake on the Biophysical Properties of Cell for Biomedical Engineering Applications. *Scientific Reports*, **2019**, 9, 5859	4.9	20
237	Underlying burning resistant mechanisms for titanium alloy. *Materials and Design*, **2018**, 156, 588-595	8.1	20
236	Breakdown of Hooke's law at the nanoscale - 2D material-based nanosprings. *Nanoscale*, **2018**, 10, 18961-18968	7.7	20

235	Novel trends in numerical modelling of plant food tissues and their morphological changes during drying □A review. *Journal of Food Engineering*, **2017**, 194, 24-39	6	20
234	Tensile properties of a boron/nitrogen-doped carbon nanotube-graphene hybrid structure. *Beilstein Journal of Nanotechnology*, **2014**, 5, 329-36	3	20
233	Hierarchical multiscale model for biomechanics analysis of microfilament networks. *Journal of Applied Physics*, **2013**, 113, 194701	2.5	20
232	Reproducing kernel particle method for two-dimensional time-space fractional diffusion equations in irregular domains. *Engineering Analysis With Boundary Elements*, **2018**, 97, 131-143	2.6	20
231	A computationally-efficient layout optimization method for real wind farms considering altitude variations. *Energy*, **2017**, 132, 147-159	7.9	19
230	Numerical investigation of plant tissue porosity and its influence on cellular level shrinkage during drying. *Biosystems Engineering*, **2015**, 132, 71-87	4.8	19
229	A three-dimensional hybrid smoothed finite element method (H-SFEM) for nonlinear solid mechanics problems. *Acta Mechanica*, **2015**, 226, 4223-4245	2.1	19
228	Analysis of particle-laden fluid flows, tortuosity and particle-fluid behaviour in metal foam heat exchangers. *Chemical Engineering Science*, **2017**, 172, 677-687	4.4	19
227	Acoustic analysis using a mass-redistributed smoothed finite element method with quadrilateral mesh. *Engineering Computations*, **2015**, 32, 2292-2317	1.4	19
226	Thermal conductivity of Si nanowires with faulted stacking layers. *Journal Physics D: Applied Physics*, **2014**, 47, 015303	3	19
225	Investigation of red blood cell mechanical properties using AFM indentation and coarse-grained particle method. *BioMedical Engineering OnLine*, **2017**, 16, 140	4.1	18
224	Development of realistic food microstructure considering the structural heterogeneity of cells and intercellular space. *Food Structure*, **2018**, 15, 9-16	4.3	18
223	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. *Journal of Physical Chemistry C*, **2018**, 122, 7605-7612	3.8	18
222	A Concurrent Multiscale Method Based on the Meshfree Method and Molecular Dynamics Analysis. *Multiscale Modeling and Simulation*, **2006**, 5, 1128-1155	1.8	18
221	Application of porous metal foam heat exchangers and the implications of particulate fouling for energy-intensive industries. *Chemical Engineering Science*, **2020**, 228, 115968	4.4	18
220	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	4.9	18
219	Optical coherence tomography-based patient-specific coronary artery reconstruction and fluid-structure interaction simulation. *Biomechanics and Modeling in Mechanobiology*, **2020**, 19, 7-20	3.8	18
218	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. *Renewable Energy*, **2018**, 126, 819-829	8.1	17

217	Simulation of plant cell shrinkage during drying □A SPH□DEM approach. *Engineering Analysis With Boundary Elements*, **2014**, 44, 1-18	2.6	17
216	Exploration of mechanisms underlying the strain-rate-dependent mechanical property of single chondrocytes. *Applied Physics Letters*, **2014**, 104, 183701	3.4	17
215	SARS CoV-2 aerosol: How far it can travel to the lower airways?. *Physics of Fluids*, **2021**, 33, 061903	4.4	17
214	Failure mechanism of monolayer graphene under hypervelocity impact of spherical projectile. *Scientific Reports*, **2016**, 6, 33139	4.9	17
213	Heterogeneous nanomechanical properties of type I collagen in longitudinal direction. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 1023-1033	3.8	16
212	Strained graphitic carbon nitride for hydrogen purification. *Journal of Membrane Science*, **2017**, 528, 201-205	5.6	16
211	Interaction of gold nanosurfaces/nanoparticles with collagen-like peptides. *Physical Chemistry Chemical Physics*, **2019**, 21, 3701-3711	3.6	16
210	Multiferroic decorated FeO monolayer predicted from first principles. *Nanoscale*, **2020**, 12, 14847-14852	7.7	16
209	Theoretical investigation of calcium-decorated □2 boron sheet for hydrogen storage. *Chemical Physics Letters*, **2018**, 695, 211-215	2.5	16
208	Mechanical bending properties of sodium titanate (Na2Ti3O7) nanowires. *RSC Advances*, **2014**, 4, 56970-56976	3.7	16
207	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	4.9	16
206	Modified beam theories for bending properties of nanowires considering surface/intrinsic effects and axial extension effect. *Journal of Applied Physics*, **2012**, 111, 084305	2.5	16
205	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	9.5	16
204	Modeling of mass transfer enhancement in a magnetofluidic micromixer. *Physics of Fluids*, **2019**, 31, 063603	4.4	15
203	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	4.9	15
202	Design tools for patient specific and highly controlled melt electrowritten scaffolds. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 105, 103695	4.1	15
201	SPH-DEM approach to numerically simulate the deformation of three-dimensional RBCs in non-uniform capillaries. *BioMedical Engineering OnLine*, **2016**, 15, 161	4.1	15
200	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	4.1	15

199	A new regularization method for the dynamic load identification of stochastic structures. *Computers and Mathematics With Applications*, **2018**, 76, 741-759	2.7	15
198	A HYBRID SMOOTHED FINITE ELEMENT METHOD (H-SFEM) TO SOLID MECHANICS PROBLEMS. *International Journal of Computational Methods*, **2013**, 10, 1340011	1.1	15
197	Numerical Investigation of Case Hardening of Plant Tissue During Drying and Its Influence on the Cellular-Level Shrinkage. *Drying Technology*, **2015**, 33, 713-734	2.6	15
196	Characterisation on the hygrothermal degradation in the mechanical property of structural adhesive: A novel meso-scale approach. *Composites Part B: Engineering*, **2020**, 182, 107609	10	15
195	Adsorption of Collagen-like Peptides onto Gold Nanosurfaces. *Langmuir*, **2019**, 35, 4435-4444	4	14
194	Low interfacial thermal resistance between crossed ultra-thin carbon nanothreads. *Carbon*, **2020**, 165, 216-224	10.4	14
193	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	4.4	14
192	Impact and energy absorption of portable water-filled road safety barrier system fitted with foam. *International Journal of Impact Engineering*, **2014**, 72, 26-39	4	14
191	Deconvolution of mechanical properties of thin films from nanoindentation measurement via finite element optimization. *Thin Solid Films*, **2012**, 526, 183-190	2.2	14
190	Notch expressed by osteocytes plays a critical role in mineralisation. *Journal of Molecular Medicine*, **2018**, 96, 333-347	5.5	13
189	Investigation of the Effects of Extracellular Osmotic Pressure on Morphology and Mechanical Properties of Individual Chondrocyte. *Cell Biochemistry and Biophysics*, **2016**, 74, 229-40	3.2	13
188	Molecular investigation of the mechanical properties of single actin filaments based on vibration analyses. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17, 616-22	2.1	13
187	Tailoring the Resonance of Bilayer Graphene Sheets by Interlayer sp3 Bonds. *Journal of Physical Chemistry C*, **2014**, 118, 732-739	3.8	13
186	Mechanical properties of bioinspired bicontinuous nanocomposites. *Computational Materials Science*, **2013**, 80, 71-78	3.2	13
185	Natural convection due to differential heating of inclined walls and heat source placed on bottom wall of an attic shaped space. *Energy and Buildings*, **2015**, 89, 153-162	7	13
184	A new tip area function for instrumented nanoindentation at extremely small contact depths. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 7948-7951	5.3	13
183	Surface effects on the dual-mode vibration of <1 1 0> silver nanowires with different cross-sections. *Journal Physics D: Applied Physics*, **2012**, 45, 465304	3	13
182	Advanced Numerical Characterization of Mono-Crystalline Copper with Defects. *Advanced Science Letters*, **2011**, 4, 1293-1301	0.1	13

181	Tuning Magnetism of Metal Porphyrazine Molecules by a Ferroelectric InSe Monolayer. *ACS Applied Materials & Interfaces*, **2020**, 12, 39561-39566	9.5	13
180	Polydisperse Aerosol Transport and Deposition in Upper Airways of Age-Specific Lung. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	13
179	Two-dimensional graphene heterojunctions: The tunable mechanical properties. *Carbon*, **2015**, 95, 1061-1068	10.4	12
178	In situ mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. *Nanoscale*, **2018**, 10, 2588-2595	7.7	12
177	High-mobility anisotropic transport in few-layer □B films. *Nanoscale*, **2016**, 8, 20111-20117	7.7	12
176	Control of flow around a circular cylinder wrapped with a porous layer by magnetohydrodynamic. *Journal of Magnetism and Magnetic Materials*, **2016**, 401, 1078-1087	2.8	12
175	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	2.1	12
174	Anomalous sub-diffusion equations by the meshless collocation method. *Australian Journal of Mechanical Engineering*, **2012**, 10, 1-8	1	12
173	A pseudo-elastic local meshless method for analysis of material nonlinear problems in solids. *Engineering Analysis With Boundary Elements*, **2007**, 31, 771-782	2.6	12
172	Analysis of microelectromechanical systems (mems) by meshless local kriging (lokriging) method **2004**, 27, 573-583		12
171	Turbulent dense gas flow characteristics in swirling conical diffuser. *Computers and Fluids*, **2017**, 149, 100-118	2.8	11
170	Microscale consolidation analysis of relaxation behavior of single living chondrocytes subjected to varying strain-rates. *Journal of the Mechanical Behavior of Biomedical Materials*, **2015**, 49, 343-54	4.1	11
169	Fluid□tructure interaction analysis of full scale vehicle-barrier impact using coupled SPH□EA. *Engineering Analysis With Boundary Elements*, **2014**, 42, 26-36	2.6	11
168	A CONFORMING POINT INTERPOLATION METHOD (CPIM) BY SHAPE FUNCTION RECONSTRUCTION FOR ELASTICITY PROBLEMS. *International Journal of Computational Methods*, **2010**, 07, 369-395	1.1	11
167	Steady Natural Convection of Non-Newtonian Power-Law Fluid in a Trapezoidal Enclosure. *Advances in Mechanical Engineering*, **2013**, 5, 653108	1.2	11
166	How severe acute respiratory syndrome coronavirus-2 aerosol propagates through the age-specific upper airways. *Physics of Fluids*, **2021**, 33, 081911	4.4	11
165	Graphene with Patterned Fluorination: Morphology Modulation and Implications. *Journal of Physical Chemistry C*, **2015**, 119, 27562-27568	3.8	10
164	A new data-driven topology optimization framework for structural optimization. *Computers and Structures*, **2020**, 239, 106310	4.5	10

163	Thermal conduction of one-dimensional carbon nanomaterials and nanoarchitectures. *Chinese Physics B*, **2018**, 27, 038103	1.2	10
162	A poroviscohyperelastic model for numerical analysis of mechanical behavior of single chondrocyte. *Computer Methods in Biomechanics and Biomedical Engineering*, **2016**, 19, 126-36	2.1	10
161	A novel super-elastic carbon nanofiber with cup-stacked carbon nanocones and a screw dislocation. *Carbon*, **2019**, 154, 98-107	10.4	10
160	Adhesive characteristics of low dimensional carbon nanomaterial on actin. *Applied Physics Letters*, **2014**, 104, 023702	3.4	10
159	Bending properties of Ag nanowires with pre-existing surface defects. *Computational Materials Science*, **2014**, 81, 45-51	3.2	10
158	Numerical Study of Impact Forces on Railway Sleepers under Wheel Flat. *Advances in Structural Engineering*, **2013**, 16, 127-134	1.9	10
157	Scaling for the Prandtl number of the natural convection boundary layer of an inclined flat plate under uniform surface heat flux. *International Journal of Heat and Mass Transfer*, **2012**, 55, 2394-2401	4.9	10
156	A coupled SPH-DEM approach to model the interactions between multiple red blood cells in motion in capillaries. *International Journal of Mechanics and Materials in Design*, **2016**, 12, 477-494	2.5	10
155	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	19.5	10
154	Molecular insights on the interference of simplified lung surfactant models by gold nanoparticle pollutants. *Biochimica Et Biophysica Acta - Biomembranes*, **2019**, 1861, 1458-1467	3.8	9
153	Aberrant activation of Wnt signaling pathway altered osteocyte mineralization. *Bone*, **2019**, 127, 324-333	4.7	9
152	Atomic-Scale Study on the Ultralarge Bending Behaviors of TiO-B/Anatase Dual-Phase Nanowires. *Nano Letters*, **2019**, 19, 7742-7749	11.5	9
151	Unsteady Natural Convection Within a Porous Enclosure of Sinusoidal Corrugated Side Walls. *Transport in Porous Media*, **2014**, 104, 537-552	3.1	9
150	An Enriched Radial Point Interpolation Method Based on Weak-Form and Strong-Form. *Mechanics of Advanced Materials and Structures*, **2011**, 18, 578-584	1.8	9
149	Tailorable Burning Behavior of Ti14 Alloy by Controlling Semi-Solid Forging Temperature. *Materials*, **2016**, 9,	3.5	9
148	Numerical investigation of atherosclerotic plaque rupture using optical coherence tomography imaging and XFEM. *Engineering Fracture Mechanics*, **2018**, 204, 531-541	4.2	9
147	A coarse-grained multiscale model to simulate morphological changes of food-plant tissues undergoing drying. *Soft Matter*, **2019**, 15, 901-916	3.6	8
146	Application of a coupled smoothed particle hydrodynamics (SPH) and coarse-grained (CG) numerical modelling approach to study three-dimensional (3-D) deformations of single cells of different food-plant materials during drying. *Soft Matter*, **2018**, 14, 2015-2031	3.6	8

145	Application of 3D imaging and analysis techniques for the study of food plant cellular deformations during drying. *Drying Technology*, **2018**, 36, 509-522	2.6	8
144	A Quasi-Conforming Point Interpolation Method (QC-PIM) for Elasticity Problems. *International Journal of Computational Methods*, **2016**, 13, 1650026	1.1	8
143	Role of Nitrogen on the Mechanical Properties of the Novel Carbon Nitride Nanothreads. *Journal of Physical Chemistry C*, **2019**, 123, 28977-28984	3.8	8
142	Transient air flow and heat transfer in a triangular enclosure with a conducting partition. *Applied Mathematical Modelling*, **2014**, 38, 3879-3887	4.5	8
141	A sub-domain smoothed Galerkin method for solid mechanics problems. *International Journal for Numerical Methods in Engineering*, **2014**, 98, 781-798	2.4	8
140	Heat Transfer Analysis of Viscous Incompressible Fluid by Combined Natural Convection and Radiation in an Open Cavity. *Mathematical Problems in Engineering*, **2014**, 2014, 1-14	1.1	8
139	Numerical Exploration of the Defect Effect on Mechanical Properties of Nanowires under Torsion. *Advanced Materials Research*, **2011**, 335-336, 498-501	0.5	8
138	Impact & Energy Absorption of Road Safety Barriers by Coupled SPH/FEM. *International Journal of Protective Structures*, **2012**, 3, 257-273	1.5	8
137	Helium-Oxygen Mixture Model for Particle Transport in CT-Based Upper Airways. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	8
136	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	9.5	8
135	An elastic plastic asperity contact model and its application for micro-contact analysis of gear tooth profiles. *International Journal of Mechanics and Materials in Design*, **2017**, 13, 335-345	2.5	7
134	Effects of surface atomistic modification on mechanical properties of gold nanowires. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 1893-1897	2.3	7
133	Adaptive finite element analysis of elliptic problems based on bubble-type local mesh generation. *Journal of Computational and Applied Mathematics*, **2015**, 280, 42-58	2.4	7
132	Chitosan/graphene complex membrane for polymer electrolyte membrane fuel cell: A molecular dynamics simulation study. *International Journal of Hydrogen Energy*, **2020**, 45, 25960-25969	6.7	7
131	Transient air flow and heat transfer due to differential heating on inclined walls and heat source placed on the bottom wall in a partitioned attic shaped space. *Energy and Buildings*, **2016**, 113, 39-50	7	7
130	Single-molecule insights into surface-mediated homochirality in hierarchical peptide assembly. *Nature Communications*, **2018**, 9, 2711	17.4	7
129	Unsteady buoyancy driven flows and heat transfer through coupled thermal boundary layers in a partitioned triangular enclosure. *International Journal of Heat and Mass Transfer*, **2014**, 68, 375-382	4.9	7
128	Carbon nanotube-based super nanotubes: tunable thermal conductivity in three dimensions. *RSC Advances*, **2015**, 5, 48164-48168	3.7	7

127	Stress relaxation analysis of single chondrocytes using porohyperelastic model based on AFM experiments. *Theoretical and Applied Mechanics Letters*, **2014**, 4, 054001	1.8	7
126	TENSILE PROPERTIES OF GRAPHENE-NANOTUBE HYBRID STRUCTURES: A MOLECULAR DYNAMICS STUDY. *International Journal of Computational Materials Science and Engineering*, **2013**, 02, 1350020	0.3	7
125	GEOMETRICALLY NONLINEAR ANALYSIS OF MICROSWITCHES USING THE LOCAL MESHFREE METHOD. *International Journal of Computational Methods*, **2008**, 05, 513-532	1.1	7
124	Molecular Dynamics Simulation of Chiral Carbon Nanothread Bundles for Nanofiber Applications. *ACS Applied Nano Materials*, **2020**, 3, 10218-10225	5.6	7
123	A Comparative Study of Mixed Resolved–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	7.8	7
122	2D ferroelectric devices: working principles and research progress. *Physical Chemistry Chemical Physics*, **2021**, 23, 21376-21384	3.6	7
121	Unexpected dynamic recrystallization behavior of Ti-7Cu alloy in semi-solid state. *Journal of Alloys and Compounds*, **2017**, 712, 468-476	5.7	6
120	Numerical investigation of diesel exhaust particle transport and deposition in the CT-scan based lung airway **2017**,		6
119	A constitutive model for mechanical response characterization of pumpkin peel and flesh tissues under tensile and compressive loadings. *Journal of Food Science and Technology*, **2015**, 52, 4874-84	3.3	6
118	Deformation behaviour of stomatocyte, discocyte and echinocyte red blood cell morphologies during optical tweezers stretching. *Biomechanics and Modeling in Mechanobiology*, **2020**, 19, 1827-1843	3.8	6
117	Effect of joint mechanism on vehicle redirectional capability of water-filled road safety barrier systems. *Accident Analysis and Prevention*, **2014**, 71, 60-71	6.1	6
116	Variable-based Ramberg–Osgood constitutive model of power spinning bushing. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 3080-3087	3.3	6
115	F-actin crosslinker: A key player for the mechanical stability of filopodial protrusion. *Journal of Applied Physics*, **2013**, 114, 214701	2.5	6
114	MD INVESTIGATIONS FOR MECHANICAL PROPERTIES OF COPPER NANOWIRES WITH AND WITHOUT SURFACE DEFECTS. *International Journal of Computational Methods*, **2012**, 09, 1240003	1.1	6
113	A point interpolation method with locally smoothed strain field (PIM-LS2) for mechanics problems using triangular mesh. *Finite Elements in Analysis and Design*, **2010**, 46, 862-874	2.2	6
112	Deformation of a single red blood cell in a microvessel. *ANZIAM Journal*,54, 64		6
111	Transient heat transfer and non-isothermal particle-laden gas flows through porous metal foams of differing structure. *Applied Thermal Engineering*, **2019**, 150, 888-903	5.8	6
110	A 3-D coupled Smoothed Particle Hydrodynamics and Coarse-Grained model to simulate drying mechanisms of small cell aggregates. *Applied Mathematical Modelling*, **2019**, 67, 219-233	4.5	6

109	Robust Magnetoelectric Effect in the Decorated Graphene/InSe Heterostructure. *ACS Applied Materials & Interfaces*, **2021**, 13, 3033-3039	9.5	6
108	Nanojoint Formation between Ceramic Titanate Nanowires and Spot Melting of Metal Nanowires with Electron Beam. *ACS Applied Materials & Interfaces*, **2017**, 9, 9143-9151	9.5	5
107	Atomic-scale investigation on the ultra-large bending behaviours of layered sodium titanate nanowires. *Nanoscale*, **2019**, 11, 11847-11855	7.7	5
106	Numerical Investigation of Motion and Deformation of a Single Red Blood Cell in a Stenosed Capillary. *International Journal of Computational Methods*, **2015**, 12, 1540003	1.1	5
105	Tuning the resonance properties of 2D carbon nanotube networks towards a mechanical resonator. *Nanotechnology*, **2015**, 26, 315501	3.4	5
104	A general approach to tune the vibration properties of the mounting system in the high-speed and heavy-duty engine. *JVC/Journal of Vibration and Control*, **2016**, 22, 247-257	2	5
103	Modelling of Red Blood Cell Morphological and Deformability Changes during In-Vitro Storage. *Applied Sciences (Switzerland)*, **2020**, 10, 3209	2.6	5
102	A novel numerical model to predict the morphological behavior of magnetic liquid marbles using coarse grained molecular dynamics concepts. *Physics of Fluids*, **2018**, 30, 017105	4.4	5
101	Effective shear modulus approach for two dimensional solids and plate bending problems by meshless point collocation method. *Engineering Analysis With Boundary Elements*, **2012**, 36, 675-684	2.6	5
100	MRI magic-angle effect in femorotibial cartilages of the red kangaroo. *Magnetic Resonance Imaging*, **2017**, 43, 66-73	3.3	5
99	Two- and four-way coupling of cohesive poly-disperse particulate foulants on a metal foam fibre immersed in quiescent fluid. *International Communications in Heat and Mass Transfer*, **2017**, 89, 176-184	5.8	5
98	Resonance of graphene nanoribbons doped with nitrogen and boron: a molecular dynamics study. *Beilstein Journal of Nanotechnology*, **2014**, 5, 717-25	3	5
97	Prandtl number scaling of the unsteady natural convection boundary layer adjacent to a vertical flat plate for subject to ramp surface heat flux. *International Journal of Heat and Mass Transfer*, **2012**, 55, 7046-7055	4.9	5
96	Quantitative Fit Assessment of a Precontoured Fracture Fixation Plate: Its Automation and an Investigation on the Borderline Cases. *Advanced Materials Research*, **2011**, 339, 685-689	0.5	5
95	Studies on Bending Limitations for the Optimal Fit of Orthopaedic Bone Plates. *Advanced Materials Research*, **2012**, 602-604, 1181-1185	0.5	5
94	Polypeptide-rhodamine B probes containing laminin/fibronectin receptor-targeting sequence (YIGSR/RGD) for fluorescent imaging in cancers. *Talanta*, **2020**, 212, 120718	6.2	5
93	Natural convection subject to sinusoidal thermal forcing on inclined walls and heat source located on bottom wall of an attic-shaped space. *Energy and Buildings*, **2016**, 128, 845-866	7	5
92	Carotid Bifurcation With Tandem Stenosis-A Patient-Specific Case Study Combined Imaging, Histology and Simulation. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 349	5.8	5

91	First-principles prediction of ferroelasticity tuned anisotropic auxeticity and carrier mobility in two-dimensional AgO. *Journal of Materials Chemistry C*, **2021**, 9, 3155-3160	7.1	5
90	Uncertainty Quantification in high-density fluid radial-inflow turbines for renewable low-grade temperature cycles. *Applied Energy*, **2019**, 241, 313-330	10.7	4
89	An effective sub-domain smoothed Galerkin method for free and forced vibration analysis. *Meccanica*, **2015**, 50, 1285-1301	2.1	4
88	Effect of hydroxylysine-O-glycosylation on the structure of type I collagen molecule: A computational study. *Glycobiology*, **2020**, 30, 830-843	5.8	4
87	A three-dimensional (3-D) meshfree-based computational model to investigate stress-strain-time relationships of plant cells during drying. *PLoS ONE*, **2020**, 15, e0235712	3.7	4
86	Graphynes: an alternative lightweight solution for shock protection. *Beilstein Journal of Nanotechnology*, **2019**, 10, 1588-1595	3	4
85	Interaction pressure tensor on high-order lattice Boltzmann models for nonideal fluids. *Physical Review E*, **2019**, 99, 063318	2.4	4
84	A meshfree-based local Galerkin method with condensation of degree of freedom for elastic dynamic analysis. *Acta Mechanica Sinica/Lixue Xuebao*, **2014**, 30, 92-99	2	4
83	A New Particle Generation Method for Arbitrary 2D Geometries in SPH Modeling. *International Journal of Computational Methods*, **2017**, 14, 1750023	1.1	4
82	ANALYSIS OF STRAIN-RATE DEPENDENT MECHANICAL BEHAVIOR OF SINGLE CHONDROCYTE: A FINITE ELEMENT STUDY. *International Journal of Computational Methods*, **2014**, 11, 1344005	1.1	4
81	Determination of Elastic Modulus of Thin Coating Materials Using Nanoindentation and Finite Element Analysis. *Advanced Materials Research*, **2009**, 76-78, 392-397	0.5	4
80	A bridging transition technique for the combination of meshfree method with finite element method in 2D solids and structures. *Computational Mechanics*, **2009**, 44, 119-131	4	4
79	COLLECTIVE DYNAMICS AND CONTROL OF A 3-D SMALL-WORLD NETWORK WITH TIME DELAYS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250281	2	4
78	A NOVEL QUADRATIC EDGE-BASED SMOOTHED CONFORMING POINT INTERPOLATION METHOD (ES-CPIM) FOR ELASTICITY PROBLEMS. *International Journal of Computational Methods*, **2012**, 09, 1240033	11	4
77	Free convection in a triangular enclosure with fluid-saturated porous medium and internal heat generation. *ANZIAM Journal*,52, 127		4
76	A numerical investigation of drug extravasation using a tumour vasculature microfluidic device. *Microfluidics and Nanofluidics*, **2018**, 22, 1	2.8	4
75	Atypical Defect Motions in Brittle Layered Sodium Titanate Nanowires. *Journal of Physical Chemistry Letters*, **2018**, 9, 6052-6059	6.4	4
74	A Novel Experimental Method to Assess Particle Deposition in Idealized Porous Channels. *Heat Transfer Engineering*, **2017**, 38, 1008-1017	1.7	3

73	Investigation of the mechanical behavior of kangaroo humeral head cartilage tissue by a porohyperelastic model based on the strain-rate-dependent permeability. *Journal of the Mechanical Behavior of Biomedical Materials*, **2015**, 51, 248-59	4.1	3
72	Application of high-order lattice Boltzmann pseudopotential models. *Physical Review E*, **2020**, 101, 033303	2.4	3
71	Anomalous Enhancement of Mechanical Properties in the Ammonia Adsorbed Defective Graphene. *Scientific Reports*, **2016**, 6, 33810	4.9	3
70	Thermal Conductivity of Graphene and Its Polymer Nanocomposites: A Review **2016**, 1-28		3
69	Thermal Conductivity of Diamond Nanothread **2017**, 185-204		3
68	Physical mechanism of the compressive response of F-actin networks: significance of crosslinker unbinding events. *Theoretical and Applied Mechanics Letters*, **2014**, 4, 051006	1.8	3
67	Meshless TL and UL Approaches for Large Deformation Analysis. *Advanced Materials Research*, **2010** , 139-141, 893-896	0.5	3
66	A NODE-BASED SMOOTHED CONFORMING POINT INTERPOLATION METHOD (NS-CPIM) FOR ELASTICITY PROBLEMS. *International Journal of Computational Methods*, **2011**, 08, 801-812	1.1	3
65	Deformation characterization of a nanoelectromechanical switch. *Journal of Physics: Conference Series*, **2006**, 34, 118-123	0.3	3
64	Phase engineering of dual active 2D Bi2O3-based nanocatalysts for alkaline hydrogen evolution reaction electrocatalysis. *Journal of Materials Chemistry A*,	13	3
63	Effective Enhancement of a Carbon Nanothread on the Mechanical Properties of the Polyethylene Nanocomposite. *Journal of Physical Chemistry C*, **2021**, 125, 5781-5792	3.8	3
62	3D Printed Multi-Functional Scaffolds Based on Poly(ε-Caprolactone) and Hydroxyapatite Composites. *Nanomaterials*, **2021**, 11,	5.4	3
61	Proteoglycan and collagen contribution to the strain-rate-dependent mechanical behaviour of knee and shoulder cartilage. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 124, 104733	4.1	3
60	A point interpolation method for two-dimensional solids **2001**, 50, 937		3
59	A general Neural Particle Method for hydrodynamics modeling. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 393, 114740	5.7	3
58	How Gaseous Environment Influences a Carbon Nanotube-Based Mechanical Resonator. *Journal of Physical Chemistry C*, **2019**, 123, 25925-25933	3.8	2
57	Effect of rotating cylinder on heat transfer in a differentially heated rectangular enclosure filled with power law non-Newtonian fluid. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2016**, 26, 1910-1931	4.5	2
56	A meshfree-based local Galerkin method with condensation of degree of freedom. *Finite Elements in Analysis and Design*, **2014**, 78, 16-24	2.2	2

55	Similarity Solutions for Flow and Heat Transfer of Non-Newtonian Fluid over a Stretching Surface. *Journal of Applied Mathematics*, **2014**, 2014, 1-8	1.1	2
54	Natural convection from a vertical plate embedded in a stratified medium with uniform heat source. *Desalination and Water Treatment*, **2012**, 44, 7-14		2
53	Hardness of silicon nitride thin films characterised by nanoindentation and nanoscratch deconvolution methods. *Materials Science and Technology*, **2012**, 28, 1172-1176	1.5	2
52	PREDICTION OF STRUCTURAL INTEGRITY, ROBUSTNESS, AND SERVICE LIFE USING ADVANCED FINITE ELEMENT METHODS. *International Journal of Computational Methods*, **2011**, 08, 787-800	1.1	2
51	Tensile Properties of Si Nanowires with Faulted Stacking Layers. *Science of Advanced Materials*, **2014**, 6, 1489-1492	2.3	2
50	Three-Dimensional (3D) Numerical Modeling of Morphogenesis in Dehydrated Fruits and Vegetables **2018**, 431-454		2
49	Formation of the three-dimensional geometry of the red blood cell membrane. *ANZIAM Journal*,54, 80		2
48	Tumor-Targeting Fluorescent Probe Based on 1,8-Naphthalimide and Porphyrin Groups. *ChemistrySelect*, **2020**, 5, 7680-7684	1.8	2
47	Multiscale exploit the role of copper on the burn resistant behavior of Ti-Cu alloy. *Journal of Alloys and Compounds*, **2021**, 863, 158639	5.7	2
46	A multiscale modeling method incorporating spatial coupling and temporal coupling into transient simulations of the human airways. *International Journal for Numerical Methods in Fluids*, **2021**, 93, 2905-2920	1.9	2
45	Atomistic Mechanisms of Ultralarge Bending Deformation of Single-Crystalline TiO2B Nanowires. *Journal of Physical Chemistry C*, **2020**, 124, 11174-11182	3.8	2
44	Estimation of load conditions and strain distribution for in vivo murine tibia compression loading using experimentally informed finite element models. *Journal of Biomechanics*, **2021**, 115, 110140	2.9	2
43	Carbon nanothreads enable remarkable enhancement in the thermal conductivity of polyethylene. *Nanoscale*, **2021**, 13, 6934-6943	7.7	2
42	A data-driven smoothed particle hydrodynamics method for fluids. *Engineering Analysis With Boundary Elements*, **2021**, 132, 12-32	2.6	2
41	Quantified dense gas conical diffuser performance under uncertainties by flow characteristic analysis. *Applied Thermal Engineering*, **2019**, 161, 114158	5.8	1
40	Prediction of atherosclerotic plaque life Perceptions from fatigue analysis. *Procedia Manufacturing*, **2019**, 30, 522-529	1.5	1
39	Two-Dimensional CuTe2X (X = Cl, Br, and I): Potential Photocatalysts for Water Splitting under the Visible/Infrared Light. *Journal of Physical Chemistry C*, **2019**, 123, 25543-25548	3.8	1
38	General existence of flexural mode doublets in nanowires targeting vectorial sensing applications. *Physical Chemistry Chemical Physics*, **2019**, 21, 4136-4144	3.6	1

37	Comprehensive Contribution of Filament Thickness and Crosslinker Failure to the Rheological Property of F-actin Cytoskeleton. *Cellular and Molecular Bioengineering*, **2015**, 8, 278-284	3.9	1
36	Physical mechanisms underlying the strain-rate-dependent mechanical behavior of kangaroo shoulder cartilage. *Applied Physics Letters*, **2015**, 107, 103701	3.4	1
35	Smoothed Finite Element Methods for Predicting the Mid to High Frequency Acoustic Response in the Cylinder-Head Chamber of a Diesel Engine. *International Journal of Computational Methods*, **2020**, 17, 1950060	1.1	1
34	Effect of Fe-doping on bending elastic properties of single-crystalline rutile TiO2 nanowires. *Nanoscale Advances*, **2020**, 2, 2800-2807	5.1	1
33	Stress-Relaxation and Cyclic Behavior of Human Carotid Plaque Tissue. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 60	5.8	1
32	A stochastic thermostat algorithm for coarse-grained thermomechanical modeling of large-scale soft matters: Theory and application to microfilaments. *Journal of Computational Physics*, **2014**, 263, 177-184	4.1	1
31	NUMERICAL SIMULATIONS OF PARTICLE DEPOSITION IN METAL FOAM HEAT EXCHANGERS. *International Journal of Computational Materials Science and Engineering*, **2013**, 02, 1350016	0.3	1
30	An Adaptive Local Meshfree Updated Lagrangian Approach for Large Deformation Analysis of Metal Forming. *Advanced Materials Research*, **2010**, 97-101, 2664-2667	0.5	1
29	Influence of pre-exsiting surface defects on the vibrational properties of Ag nanowires **2012**,		1
28	An advanced meshless technique for large deformation analysis of metal forming. *Australian Journal of Mechanical Engineering*, **2009**, 7, 25-32	1	1
27	An Enriched Radial Point Interpolation Method (e-RPIM) for the Analysis of Crack Tip **2010**,		1
26	An effective multiscale approach for deformation analyses of carbon nanotube-based nanoswitches **2008**,		1
25	Two-Dimensional Janus Antimony Selenium Telluride with Large Rashba Spin Splitting and High Electron Mobility. *ACS Omega*, **2021**, 6, 31919-31925	3.9	1
24	Carbon Nanotube Reinforced Poly-p-Phenylene Terephthalamide Fibers for Toughness Improvement: A Molecular Dynamics Study. *Advanced Theory and Simulations*, **2020**, 3, 2000135	3.5	1
23	Mechanical Properties of Single-Layer Diamond Reinforced Poly(vinyl alcohol) Nanocomposites through Atomistic Simulation. *Macromolecular Materials and Engineering*, **2021**, 306, 2100292	3.9	1
22	Mechano-ferroelectric coupling: stabilization enhancement and polarization switching in bent AgBiPSe monolayers. *Nanoscale Horizons*, **2021**, 6, 971-978	10.8	1
21	Parametric study on cement treated aggregate panel under impact load. *Archives of Civil and Mechanical Engineering*, **2018**, 18, 622-629	3.4	1
20	Atomistic Insights on the Rheological Property of Polycaprolactone Composites with the Addition of Graphene. *Advanced Materials Technologies*,2100507	6.8	1

19	Ferroelectric Controlled Gas Adsorption in Doped Graphene/In2Se3 Heterostructure. *Advanced Materials Technologies*,2100463	6.8	1
18	A bio-inspired B-Spline Offset Feature for structural topology optimization. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 386, 114081	5.7	1
17	Atomic Investigation on the Facet-Dependent Melting of Ceramic Nanostructures via In Situ Electron Irradiation. *Advanced Materials Interfaces*, **2020**, 7, 2000288	4.6	0
16	How to Increase the Accuracy of Analysis and Reduce the Computational Time in ANSYS in the Case of Deformation Study of Orthopedic Bone Plates. *Advanced Materials Research*, **2013**, 834-836, 1592-1600	0.5	0
15	Exploration of the Defect Effect on the Mechanical Properties of Different Orientated Nanowires. *Advanced Materials Research*, **2011**, 328-330, 1239-1244	0.5	0
14	Exceptional Deformability of Wurtzite Zinc Oxide Nanowires with Growth Axial Stacking Faults. *Nano Letters*, **2021**, 21, 4327-4334	11.5	0
13	Stacking-Dependent Interlayer Ferroelectric Coupling and Moiré Domains in a Twisted AgBiPSe Bilayer.. *Journal of Physical Chemistry Letters*, **2022**, 13, 2027-2032	6.4	0
12	A new membrane formulation for modelling the flow of stomatocyte, discocyte, and echinocyte red blood cells.. *Biomechanics and Modeling in Mechanobiology*, **2022**, 1	3.8	0
11	An agent-based method for simulating porous fluid-saturated structures with indistinguishable components. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 483, 36-43	3.3	
10	Heat Transfer Enhancement in a Baffled Attic-Shaped Space. *Green Energy and Technology*, **2018**, 157-172	0.6	
9	Optimizing the Unrestricted Wind Turbine Placements with Different Turbine Hub Heights. *Lecture Notes in Mechanical Engineering*, **2018**, 263-275	0.4	
8	A nanoscratch method for measuring hardness of thin films. *International Journal of Nanomanufacturing*, **2011**, 7, 427	0.7	
7	Theoretical Analysis of Serrated Chip Formation Based on Ideal Models in High Speed Cutting. *Advanced Materials Research*, **2010**, 154-155, 239-245	0.5	
6	A Modified Quality Control Method for Manufacturing Process in Mask Industry. *Advanced Materials Research*, **2010**, 139-141, 1843-1846	0.5	
5	Effect of Micro Scale on Prediction of Thermal Residual Stresses in Multilayer Ceramic Capacitors (MLCCs). *Advanced Materials Research*, **2011**, 295-297, 2651-2654	0.5	
4	A coupled numerical approach for nonlinear dynamic fluid-structure interaction analysis of a near-bed submarine pipeline. *Engineering Computations*, **2008**, 25, 569-588	1.4	
3	STRESS ANALYSIS OF 3-D SOLIDS USING A MESHFREE RADIAL POINT INTERPOLATION METHOD **2006**, 1555-1559		
2	Particle-Based Numerical Modelling of Liquid Marbles: Recent Advances and Future Perspectives. *Archives of Computational Methods in Engineering*,1	7.8	

1	Ferroelectric Controlled Gas Adsorption in Doped Graphene/In 2 Se 3 Heterostructure (Adv. Mater. Technol. 4/2022). *Advanced Materials Technologies*, **2022**, 7, 2270019	6.8