

Yuantong Gu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stacking-Dependent Interlayer Ferroelectric Coupling and Moiré Domains in a Twisted AgBiPSe Bilayer.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 2027-2032	6.4	0
341	Conversion of Catalytically Inert 2D Bismuth Oxide Nanosheets for Effective Electrochemical Hydrogen Evolution Reaction Catalysis via Oxygen Vacancy Concentration Modulation.. <i>Nano-Micro Letters</i> , 2022 , 14, 90	19.5	10
340	A general Neural Particle Method for hydrodynamics modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114740	5.7	3
339	Ferroelectric Controlled Gas Adsorption in Doped Graphene/In ₂ Se ₃ Heterostructure (Adv. Mater. Technol. 4/2022). <i>Advanced Materials Technologies</i> , 2022 , 7, 2270019	6.8	
338	A new membrane formulation for modelling the flow of stomatocyte, discocyte, and echinocyte red blood cells.. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022 , 1	3.8	0
337	Two-Dimensional Janus Antimony Selenium Telluride with Large Rashba Spin Splitting and High Electron Mobility. <i>ACS Omega</i> , 2021 , 6, 31919-31925	3.9	1
336	Effective Enhancement of a Carbon Nanothread on the Mechanical Properties of the Polyethylene Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5781-5792	3.8	3
335	Multiscale exploit the role of copper on the burn resistant behavior of Ti-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158639	5.7	2
334	Exceptional Deformability of Wurtzite Zinc Oxide Nanowires with Growth Axial Stacking Faults. <i>Nano Letters</i> , 2021 , 21, 4327-4334	11.5	0
333	Polydisperse Aerosol Transport and Deposition in Upper Airways of Age-Specific Lung. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	13
332	SARS CoV-2 aerosol: How far it can travel to the lower airways?. <i>Physics of Fluids</i> , 2021 , 33, 061903	4.4	17
331	A multiscale modeling method incorporating spatial coupling and temporal coupling into transient simulations of the human airways. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 2905-2920	1.9	2
330	Mechanical Properties of Single-Layer Diamond Reinforced Poly(vinyl alcohol) Nanocomposites through Atomistic Simulation. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100292	3.9	1
329	Estimation of load conditions and strain distribution for in vivo murine tibia compression loading using experimentally informed finite element models. <i>Journal of Biomechanics</i> , 2021 , 115, 110140	2.9	2
328	Carbon nanothreads enable remarkable enhancement in the thermal conductivity of polyethylene. <i>Nanoscale</i> , 2021 , 13, 6934-6943	7.7	2
327	First-principles prediction of ferroelasticity tuned anisotropic auxeticity and carrier mobility in two-dimensional AgO. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3155-3160	7.1	5
326	Mechano-ferroelectric coupling: stabilization enhancement and polarization switching in bent AgBiPSe monolayers. <i>Nanoscale Horizons</i> , 2021 , 6, 971-978	10.8	1

325	Robust Magnetoelectric Effect in the Decorated Graphene/InSe Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3033-3039	9.5	6
324	Controllable CO electrocatalytic reduction via ferroelectric switching on single atom anchored InSe monolayer. <i>Nature Communications</i> , 2021 , 12, 5128	17.4	30
323	How severe acute respiratory syndrome coronavirus-2 aerosol propagates through the age-specific upper airways. <i>Physics of Fluids</i> , 2021 , 33, 081911	4.4	11
322	3D Printed Multi-Functional Scaffolds Based on Poly(ϵ -Caprolactone) and Hydroxyapatite Composites. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
321	A data-driven smoothed particle hydrodynamics method for fluids. <i>Engineering Analysis With Boundary Elements</i> , 2021 , 132, 12-32	2.6	2
320	Proteoglycan and collagen contribution to the strain-rate-dependent mechanical behaviour of knee and shoulder cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 124, 104733	4.1	3
319	A bio-inspired B-Spline Offset Feature for structural topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 386, 114081	5.7	1
318	2D ferroelectric devices: working principles and research progress. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21376-21384	3.6	7
317	Smoothed Finite Element Methods for Predicting the Mid to High Frequency Acoustic Response in the Cylinder-Head Chamber of a Diesel Engine. <i>International Journal of Computational Methods</i> , 2020 , 17, 1950060	1.1	1
316	Atomic Investigation on the Facet-Dependent Melting of Ceramic Nanostructures via In Situ Electron Irradiation. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000288	4.6	0
315	A new data-driven topology optimization framework for structural optimization. <i>Computers and Structures</i> , 2020 , 239, 106310	4.5	10
314	Metal-Nitrogen-Doped Carbon Materials as Highly Efficient Catalysts: Progress and Rational Design. <i>Advanced Science</i> , 2020 , 7, 2001069	13.6	91
313	Effect of Fe-doping on bending elastic properties of single-crystalline rutile TiO ₂ nanowires. <i>Nanoscale Advances</i> , 2020 , 2, 2800-2807	5.1	1
312	Modelling of Red Blood Cell Morphological and Deformability Changes during In-Vitro Storage. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3209	2.6	5
311	Multiferroic decorated FeO monolayer predicted from first principles. <i>Nanoscale</i> , 2020 , 12, 14847-14852	7.7	16
310	Effect of hydroxylysine-O-glycosylation on the structure of type I collagen molecule: A computational study. <i>Glycobiology</i> , 2020 , 30, 830-843	5.8	4
309	Application of high-order lattice Boltzmann pseudopotential models. <i>Physical Review E</i> , 2020 , 101, 033303	3.4	3
308	Reversible gas capture using a ferroelectric switch and 2D molecule multiferroics on the In ₂ Se ₃ monolayer. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7331-7338	13	29

307	Stress-Relaxation and Cyclic Behavior of Human Carotid Plaque Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 60	5.8	1
306	Low interfacial thermal resistance between crossed ultra-thin carbon nanothreads. <i>Carbon</i> , 2020 , 165, 216-224	10.4	14
305	A three-dimensional (3-D) meshfree-based computational model to investigate stress-strain-time relationships of plant cells during drying. <i>PLoS ONE</i> , 2020 , 15, e0235712	3.7	4
304	Deformation behaviour of stomatocyte, discocyte and echinocyte red blood cell morphologies during optical tweezers stretching. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1827-1843	3.8	6
303	Single layer diamond - A new ultrathin 2D carbon nanostructure for mechanical resonator. <i>Carbon</i> , 2020 , 161, 809-815	10.4	21
302	Design tools for patient specific and highly controlled melt electrowritten scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 105, 103695	4.1	15
301	A Review of Respiratory Anatomical Development, Air Flow Characterization and Particle Deposition. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	40
300	Chitosan/graphene complex membrane for polymer electrolyte membrane fuel cell: A molecular dynamics simulation study. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 25960-25969	6.7	7
299	Modelling of simultaneous heat and mass transfer considering the spatial distribution of air velocity during intermittent microwave convective drying. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 153, 119668	4.9	30
298	High density mechanical energy storage with carbon nanothread bundle. <i>Nature Communications</i> , 2020 , 11, 1905	17.4	21
297	Helium-Oxygen Mixture Model for Particle Transport in CT-Based Upper Airways. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	8
296	Polypeptide-rhodamine B probes containing laminin/fibronectin receptor-targeting sequence (YIGSR/RGD) for fluorescent imaging in cancers. <i>Talanta</i> , 2020 , 212, 120718	6.2	5
295	Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI ₃ /CrGeTe ₃ Nanostructures for Spintronics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1282-1288	5.6	27
294	Characterisation on the hygrothermal degradation in the mechanical property of structural adhesive: A novel meso-scale approach. <i>Composites Part B: Engineering</i> , 2020 , 182, 107609	10	15
293	Development of Mechanically Enhanced Polycaprolactone Composites by a Functionalized Titanate Nanofiller for Melt Electrowriting in 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47993-48006	9.5	8
292	Application of porous metal foam heat exchangers and the implications of particulate fouling for energy-intensive industries. <i>Chemical Engineering Science</i> , 2020 , 228, 115968	4.4	18
291	Tumor-Targeting Fluorescent Probe Based on 1,8-Naphthalimide and Porphyrin Groups. <i>ChemistrySelect</i> , 2020 , 5, 7680-7684	1.8	2
290	Carbon Nanotube Reinforced Poly-p-Phenylene Terephthalamide Fibers for Toughness Improvement: A Molecular Dynamics Study. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000135	3.5	1

289	Tuning Magnetism of Metal Porphyrazine Molecules by a Ferroelectric InSe Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39561-39566	9.5	13
288	Molecular Dynamics Simulation of Chiral Carbon Nanothread Bundles for Nanofiber Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10218-10225	5.6	7
287	Thermal Transport in 3D Nanostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 1903841	15.6	54
286	Simultaneous removal of cationic and anionic heavy metal contaminants from electroplating effluent by hydrotalcite adsorbent with disulfide (S) intercalation. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121111	12.8	25
285	Optical coherence tomography-based patient-specific coronary artery reconstruction and fluid-structure interaction simulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 7-20	3.8	18
284	Atomistic Mechanisms of Ultralarge Bending Deformation of Single-Crystalline TiO ₂ B Nanowires. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11174-11182	3.8	2
283	Euler-Lagrange Prediction of Diesel-Exhaust Polydisperse Particle Transport and Deposition in Lung: Anatomy and Turbulence Effects. <i>Scientific Reports</i> , 2019 , 9, 12423	4.9	22
282	Quantified dense gas conical diffuser performance under uncertainties by flow characteristic analysis. <i>Applied Thermal Engineering</i> , 2019 , 161, 114158	5.8	1
281	Prediction of atherosclerotic plaque life [Perceptions from fatigue analysis. <i>Procedia Manufacturing</i> , 2019 , 30, 522-529	1.5	1
280	Two-Dimensional CuTe ₂ X (X = Cl, Br, and I): Potential Photocatalysts for Water Splitting under the Visible/Infrared Light. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25543-25548	3.8	1
279	How Gaseous Environment Influences a Carbon Nanotube-Based Mechanical Resonator. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25925-25933	3.8	2
278	The stress-strain relationship of liquid marbles under compression. <i>Applied Physics Letters</i> , 2019 , 114, 043701	3.4	20
277	A coarse-grained multiscale model to simulate morphological changes of food-plant tissues undergoing drying. <i>Soft Matter</i> , 2019 , 15, 901-916	3.6	8
276	Interaction of gold nanosurfaces/nanoparticles with collagen-like peptides. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3701-3711	3.6	16
275	General existence of flexural mode doublets in nanowires targeting vectorial sensing applications. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4136-4144	3.6	1
274	Molecular insights on the interference of simplified lung surfactant models by gold nanoparticle pollutants. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 1458-1467	3.8	9
273	Modeling of mass transfer enhancement in a magnetofluidic micromixer. <i>Physics of Fluids</i> , 2019 , 31, 063603	4.4	15
272	Atomic-scale investigation on the ultra-large bending behaviours of layered sodium titanate nanowires. <i>Nanoscale</i> , 2019 , 11, 11847-11855	7.7	5

271	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. <i>PLoS ONE</i> , 2019 , 14, e0215447	3.7	25
270	Engineering the mechanical properties of CNT/PEEK nanocomposites.. <i>RSC Advances</i> , 2019 , 9, 12836-12845	3.7	23
269	Adsorption of Collagen-like Peptides onto Gold Nanosurfaces. <i>Langmuir</i> , 2019 , 35, 4435-4444	4	14
268	Impact of Nanoparticle Uptake on the Biophysical Properties of Cell for Biomedical Engineering Applications. <i>Scientific Reports</i> , 2019 , 9, 5859	4.9	20
267	Uncertainty Quantification in high-density fluid radial-inflow turbines for renewable low-grade temperature cycles. <i>Applied Energy</i> , 2019 , 241, 313-330	10.7	4
266	Graphynes: an alternative lightweight solution for shock protection. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1588-1595	3	4
265	A novel super-elastic carbon nanofiber with cup-stacked carbon nanocones and a screw dislocation. <i>Carbon</i> , 2019 , 154, 98-107	10.4	10
264	Aberrant activation of Wnt signaling pathway altered osteocyte mineralization. <i>Bone</i> , 2019 , 127, 324-333	4.7	9
263	Interaction pressure tensor on high-order lattice Boltzmann models for nonideal fluids. <i>Physical Review E</i> , 2019 , 99, 063318	2.4	4
262	Atomic-Scale Study on the Ultralarge Bending Behaviors of TiO-B/Anatase Dual-Phase Nanowires. <i>Nano Letters</i> , 2019 , 19, 7742-7749	11.5	9
261	Role of Nitrogen on the Mechanical Properties of the Novel Carbon Nitride Nanothreads. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28977-28984	3.8	8
260	CoB6 monolayer: A robust two-dimensional ferromagnet. <i>Physical Review B</i> , 2019 , 99,	3.3	42
259	Carotid Bifurcation With Tandem Stenosis-A Patient-Specific Case Study Combined Imaging, Histology and Simulation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 349	5.8	5
258	A Comparative Study of Mixed Resolved-Unresolved CFD-DEM and Unresolved CFD-DEM Methods for the Solution of Particle-Laden Liquid Flows. <i>Archives of Computational Methods in Engineering</i> , 2019 , 26, 1239-1254	7.8	7
257	Transient heat transfer and non-isothermal particle-laden gas flows through porous metal foams of differing structure. <i>Applied Thermal Engineering</i> , 2019 , 150, 888-903	5.8	6
256	A 3-D coupled Smoothed Particle Hydrodynamics and Coarse-Grained model to simulate drying mechanisms of small cell aggregates. <i>Applied Mathematical Modelling</i> , 2019 , 67, 219-233	4.5	6
255	Notch expressed by osteocytes plays a critical role in mineralisation. <i>Journal of Molecular Medicine</i> , 2018 , 96, 333-347	5.5	13
254	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. <i>Renewable Energy</i> , 2018 , 126, 819-829	8.1	17

253	Thermal conduction of one-dimensional carbon nanomaterials and nanoarchitectures. <i>Chinese Physics B</i> , 2018 , 27, 038103	1.2	10
252	A novel numerical model to predict the morphological behavior of magnetic liquid marbles using coarse grained molecular dynamics concepts. <i>Physics of Fluids</i> , 2018 , 30, 017105	4.4	5
251	Theoretical investigation of calcium-decorated 12 boron sheet for hydrogen storage. <i>Chemical Physics Letters</i> , 2018 , 695, 211-215	2.5	16
250	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. <i>Soft Matter</i> , 2018 , 14, 2015-2031	3.6	8
249	Coupled CFD-DEM simulation of oscillatory particle-laden fluid flow through a porous metal foam heat exchanger: Mitigation of particulate fouling. <i>Chemical Engineering Science</i> , 2018 , 179, 32-52	4.4	14
248	Development of realistic food microstructure considering the structural heterogeneity of cells and intercellular space. <i>Food Structure</i> , 2018 , 15, 9-16	4.3	18
247	In situ mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. <i>Nanoscale</i> , 2018 , 10, 2588-2595	7.7	12
246	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7605-7612	3.8	18
245	Application of 3D imaging and analysis techniques for the study of food plant cellular deformations during drying. <i>Drying Technology</i> , 2018 , 36, 509-522	2.6	8
244	Heat Transfer Enhancement in a Baffled Attic-Shaped Space. <i>Green Energy and Technology</i> , 2018 , 157-170.	2.6	8
243	Optimizing the Unrestricted Wind Turbine Placements with Different Turbine Hub Heights. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 263-275	0.4	
242	Distorted Janus Transition Metal Dichalcogenides: Stable Two-Dimensional Materials with Sizable Band Gap and Ultrahigh Carrier Mobility. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19153-19160	3.8	32
241	Steered molecular dynamics characterization of the elastic modulus and deformation mechanisms of single natural tropocollagen molecules. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 86, 359-367	4.1	15
240	Single-molecule insights into surface-mediated homochirality in hierarchical peptide assembly. <i>Nature Communications</i> , 2018 , 9, 2711	17.4	7
239	Underlying burning resistant mechanisms for titanium alloy. <i>Materials and Design</i> , 2018 , 156, 588-595	8.1	20
238	Breakdown of Hooke's law at the nanoscale - 2D material-based nanosprings. <i>Nanoscale</i> , 2018 , 10, 18961-18968.	7.7	12
237	A new regularization method for the dynamic load identification of stochastic structures. <i>Computers and Mathematics With Applications</i> , 2018 , 76, 741-759	2.7	15
236	Three-Dimensional (3D) Numerical Modeling of Morphogenesis in Dehydrated Fruits and Vegetables 2018 , 431-454		2

235	Parametric study on cement treated aggregate panel under impact load. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 622-629	3.4	1
234	Polydisperse Microparticle Transport and Deposition to the Terminal Bronchioles in a Heterogeneous Vasculature Tree. <i>Scientific Reports</i> , 2018 , 8, 16387	4.9	21
233	Two dimensional boron nanosheets: synthesis, properties and applications. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28964-28978	3.6	25
232	A numerical investigation of drug extravasation using a tumour vasculature microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	4
231	Numerical investigation of atherosclerotic plaque rupture using optical coherence tomography imaging and XFEM. <i>Engineering Fracture Mechanics</i> , 2018 , 204, 531-541	4.2	9
230	Atypical Defect Motions in Brittle Layered Sodium Titanate Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6052-6059	6.4	4
229	Reproducing kernel particle method for two-dimensional time-space fractional diffusion equations in irregular domains. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 97, 131-143	2.6	20
228	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. <i>Acta Biomaterialia</i> , 2018 , 80, 121-130	10.8	27
227	Simplest MOF Units for Effective Photodriven Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9159-9166	16.4	43
226	An elastic-plastic asperity contact model and its application for micro-contact analysis of gear tooth profiles. <i>International Journal of Mechanics and Materials in Design</i> , 2017 , 13, 335-345	2.5	7
225	Heterogeneous nanomechanical properties of type I collagen in longitudinal direction. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1023-1033	3.8	16
224	Strained graphitic carbon nitride for hydrogen purification. <i>Journal of Membrane Science</i> , 2017 , 528, 201-205	20.5	16
223	A Novel Experimental Method to Assess Particle Deposition in Idealized Porous Channels. <i>Heat Transfer Engineering</i> , 2017 , 38, 1008-1017	1.7	3
222	Nanojoint Formation between Ceramic Titanate Nanowires and Spot Melting of Metal Nanowires with Electron Beam. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9143-9151	9.5	5
221	Unexpected dynamic recrystallization behavior of Ti-7Cu alloy in semi-solid state. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 468-476	5.7	6
220	Graphene helicoid as novel nanospring. <i>Carbon</i> , 2017 , 120, 258-264	10.4	32
219	A computationally-efficient layout optimization method for real wind farms considering altitude variations. <i>Energy</i> , 2017 , 132, 147-159	7.9	19
218	Mechanical Properties of Penta-Graphene Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9642-9647	9.47	24

217	An agent-based method for simulating porous fluid-saturated structures with indistinguishable components. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 483, 36-43	3.3	
216	Turbulent dense gas flow characteristics in swirling conical diffuser. <i>Computers and Fluids</i> , 2017 , 149, 100-118	2.8	11
215	Pulmonary aerosol transport and deposition analysis in upper 17 generations of the human respiratory tract. <i>Journal of Aerosol Science</i> , 2017 , 108, 29-43	4.3	53
214	The best features of diamond nanothread for nanofibre applications. <i>Nature Communications</i> , 2017 , 8, 14863	17.4	43
213	A review of biomass burning: Emissions and impacts on air quality, health and climate in China. <i>Science of the Total Environment</i> , 2017 , 579, 1000-1034	10.2	55 ¹
212	Optimization of wind farm layout with complex land divisions. <i>Renewable Energy</i> , 2017 , 105, 30-40	8.1	24
211	Numerical investigation of diesel exhaust particle transport and deposition in the CT-scan based lung airway 2017 ,		6
210	Investigation of red blood cell mechanical properties using AFM indentation and coarse-grained particle method. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 140	4.1	18
209	Thermal Conductivity of Diamond Nanothread 2017 , 185-204		3
208	Ultrafine particle transport and deposition in a large scale 17-generation lung model. <i>Journal of Biomechanics</i> , 2017 , 64, 16-25	2.9	27
207	A multiscale evaluation of the surface integrity in boring trepanning association deep hole drilling. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 123, 48-56	9.4	22
206	MRI magic-angle effect in femorotibial cartilages of the red kangaroo. <i>Magnetic Resonance Imaging</i> , 2017 , 43, 66-73	3.3	5
205	Analysis of particle-laden fluid flows, tortuosity and particle-fluid behaviour in metal foam heat exchangers. <i>Chemical Engineering Science</i> , 2017 , 172, 677-687	4.4	19
204	A coupled finite volume & discrete element method to examine particulate foulant transport in metal foam heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 43-61	4.9	16
203	Accurate Multi-Physics Numerical Analysis of Particle Preconcentration Based on Ion Concentration Polarization. <i>International Journal of Applied Mechanics</i> , 2017 , 09, 1750107	2.4	23
202	Graphene and Carbon Nanotube Hybrid Structure: A Review. <i>Procedia IUTAM</i> , 2017 , 21, 94-101		41
201	A New Particle Generation Method for Arbitrary 2D Geometries in SPH Modeling. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750023	1.1	4
200	Modeling heat transfer during friction stir welding using a meshless particle method. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 288-300	4.9	31

199	Novel trends in numerical modelling of plant food tissues and their morphological changes during drying [A review]. <i>Journal of Food Engineering</i> , 2017 , 194, 24-39	6	20
198	Two- and four-way coupling of cohesive poly-disperse particulate foulants on a metal foam fibre immersed in quiescent fluid. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 89, 176-184	5.8	5
197	A general approach to tune the vibration properties of the mounting system in the high-speed and heavy-duty engine. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 247-257	2	5
196	Comparison of the effectiveness of analytical wake models for wind farm with constant and variable hub heights. <i>Energy Conversion and Management</i> , 2016 , 124, 189-202	10.6	44
195	High-mobility anisotropic transport in few-layer EB films. <i>Nanoscale</i> , 2016 , 8, 20111-20117	7.7	12
194	Anomalous Enhancement of Mechanical Properties in the Ammonia Adsorbed Defective Graphene. <i>Scientific Reports</i> , 2016 , 6, 33810	4.9	3
193	Numerical investigation of the temporal evolution of particulate fouling in metal foams for air-cooled heat exchangers. <i>Applied Energy</i> , 2016 , 184, 531-547	10.7	29
192	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. <i>Scientific Reports</i> , 2016 , 6, 24323	4.9	29
191	SPH-DEM approach to numerically simulate the deformation of three-dimensional RBCs in non-uniform capillaries. <i>BioMedical Engineering OnLine</i> , 2016 , 15, 161	4.1	15
190	Thermal Conductivity of Graphene and Its Polymer Nanocomposites: A Review 2016 , 1-28		3
189	The morphology and temperature dependent tensile properties of diamond nanothreads. <i>Carbon</i> , 2016 , 107, 304-309	10.4	37
188	Efficient Removal of Cationic and Anionic Radioactive Pollutants from Water Using Hydrotalcite-Based Getters. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16503-10	9.5	29
187	Effect of rotating cylinder on heat transfer in a differentially heated rectangular enclosure filled with power law non-Newtonian fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 1910-1931	4.5	2
186	Investigation of the Effects of Extracellular Osmotic Pressure on Morphology and Mechanical Properties of Individual Chondrocyte. <i>Cell Biochemistry and Biophysics</i> , 2016 , 74, 229-40	3.2	13
185	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. <i>Energy and Buildings</i> , 2016 , 113, 39-50	7	7
184	A Quasi-Conforming Point Interpolation Method (QC-PIM) for Elasticity Problems. <i>International Journal of Computational Methods</i> , 2016 , 13, 1650026	1.1	8
183	Thermal conductivity of a new carbon nanotube analog: The diamond nanothread. <i>Carbon</i> , 2016 , 98, 232-237	10.4	55
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