

Yuan Cheng

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.

89
papers

3,400
citations

30
h-index

56
g-index

95
ext. papers

4,262
ext. citations

7.5
avg, IF

5.57
L-index

#	Paper	IF	Citations
89	Enhanced Stability and Mechanical Properties of a Graphene-Protein Nanocomposite Film by a Facile Non-Covalent Self-Assembly Approach.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
88	On the interface between biomaterials and two-dimensional materials for biomedical applications.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 186, 114314	18.5	0
87	Dual-targeted carbon-dot-drugs nanoassemblies for modulating Alzheimer's related amyloid-aggregation and inhibiting fungal infection.. <i>Materials Today Bio</i> , 2021 , 12, 100167	9.9	4
86	Highly Thermal-Wet Comfortable and Conformal Silk-Based Electrodes for On-Skin Sensors with Sweat Tolerance. <i>ACS Nano</i> , 2021 , 15, 9955-9966	16.7	21
85	A Stretchable and Transparent Electrode Based on PEGylated Silk Fibroin for In Vivo Dual-Modal Neural-Vascular Activity Probing. <i>Advanced Materials</i> , 2021 , 33, e2100221	24	8
84	Application of Graphene in Coating Silk Fibril for Tunable Infrared Absorption. <i>Journal of Electronic Materials</i> , 2021 , 50, 592-597	1.9	1
83	Thermo-mechanical correlation in two-dimensional materials. <i>Nanoscale</i> , 2021 , 13, 1425-1442	7.7	27
82	Magnon relaxation time in ferromagnetic Cr ₂ Ge ₂ Te ₆ monolayer governed by magnon-phonon interaction. <i>Applied Physics Letters</i> , 2021 , 118, 023102	3.4	4
81	Insight into the structure-capacity relationship in biomass derived carbon for high-performance sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 497-504	12	7
80	Magnetic order-dependent phonon properties in 2D magnet CrI. <i>Nanoscale</i> , 2021 , 13, 10882-10890	7.7	6
79	Deep insights into interface engineering by buffer layer for efficient perovskite solar cells: a first-principles study. <i>Science China Materials</i> , 2020 , 63, 1588-1596	7.1	3
78	Effect of surface functionality of molecularly imprinted composite nanospheres on specific recognition of proteins. <i>Materials Science and Engineering C</i> , 2020 , 116, 111076	8.3	1
77	A supertough electro-tendon based on spider silk composites. <i>Nature Communications</i> , 2020 , 11, 1332	17.4	42
76	Size-dependent phononic thermal transport in low-dimensional nanomaterials. <i>Physics Reports</i> , 2020 , 860, 1-26	27.7	110
75	A direct Z-scheme PtS/arsenene van der Waals heterostructure with high photocatalytic water splitting efficiency. <i>Nanoscale</i> , 2020 , 12, 17281-17289	7.7	51
74	Single-Atom Nanozymes Linked Immunosorbent Assay for Sensitive Detection of A β 1-40: A Biomarker of Alzheimer's Disease. <i>Research</i> , 2020 , 2020, 4724505	7.8	21
73	Chain substitution caused sub-fibril level differences in electromechanical structure and property of wild-type and oim/oim collagen fibers. <i>Journal of Applied Physics</i> , 2020 , 128, 235111	2.5	0

72	Two-dimensional heterostructures for photocatalytic water splitting: a review of recent progress. <i>Nano Futures</i> , 2020 , 4, 032006	3.6	18
71	Thermal Conductivity of Amorphous Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1903829	15.6	73
70	How Does Nature Evade the "Larger is Weaker" Fate of Ultralong Silk Sheet Nanocrystallites. <i>Nano Letters</i> , 2020 , 20, 8516-8523	11.5	6
69	Material platforms for defect qubits and single-photon emitters. <i>Applied Physics Reviews</i> , 2020 , 7, 031308	7.3	37
68	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. <i>Advanced Materials</i> , 2020 , 32, e2003723	24	33
67	Effects of molecular adsorption on the spin-wave spectrum and magnon relaxation in two-dimensional CrGeTe. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22047-22054	3.6	5
66	Remarkable Reduction of Interfacial Thermal Resistance in Nanophononic Heterostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 2004003	15.6	21
65	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1904349	15.6	69
64	Spontaneous directional motion of water molecules in single-walled carbon nanotubes with a stiffness gradient. <i>Nanoscale Advances</i> , 2019 , 1, 1175-1180	5.1	5
63	Bottom-Up Formation of Carbon-Based Magnetic Honeycomb Material from Metal-Organic Framework-Guest Polyhedra for the Capture of Rhodamine B. <i>ACS Omega</i> , 2019 , 4, 5578-5585	3.9	3
62	Moisture Sensitive Smart Yarns and Textiles from Self-Balanced Silk Fiber Muscles. <i>Advanced Functional Materials</i> , 2019 , 29, 1808241	15.6	119
61	Toward rational algorithmic design of collagen-based biomaterials through multiscale computational modeling. <i>Current Opinion in Chemical Engineering</i> , 2019 , 24, 79-87	5.4	7
60	Tuning the structure of monomeric amyloid beta peptide by the curvature of carbon nanotubes. <i>Carbon</i> , 2019 , 153, 717-724	10.4	5
59	2D Materials Meet Biomacromolecules: Opportunities and Challenges. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019 , 35, 1078-1089	3.8	4
58	Chapter 4: Ionic Liquid Electrolytes for Graphene-based Supercapacitors with an Ultrahigh Energy Density. <i>RSC Smart Materials</i> , 2019 , 95-128	0.6	1
57	Design of the Hybrid Metal-Organic Frameworks as Potential Supramolecular Piezo-/Ferroelectrics. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3122-3129	3.8	16
56	Adsorption Mechanism of Amyloid Fibrils to Graphene Nanosheets and Their Structural Destruction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 897-906	3.8	13
55	Multiscale modeling of keratin, collagen, elastin and related human diseases: Perspectives from atomistic to coarse-grained molecular dynamics simulations. <i>Extreme Mechanics Letters</i> , 2018 , 20, 112-124	3.9	19

54	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1800129	24	160
53	Anisotropic Wetting Characteristics of Water Droplets on Phosphorene: Roles of Layer and Defect Engineering. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4622-4627	3.8	17
52	Molecular simulation on the interaction of Ethinylestradiol (EE2) with polymer membranes in wastewater purification. <i>Molecular Simulation</i> , 2018 , 44, 638-647	2	3
51	Large diffusion anisotropy and orientation sorting of phosphorene nanoflakes under a temperature gradient. <i>Nanoscale</i> , 2018 , 10, 1660-1666	7.7	12
50	Synergetically understanding the interaction between nano/microspheres and peptide for controllable drug loading via experimental and theoretical approaches. <i>Materials Science and Engineering C</i> , 2018 , 83, 169-176	8.3	11
49	Exceptional Optical Absorption of Buckled Arsenene Covering a Broad Spectral Range by Molecular Doping. <i>ACS Omega</i> , 2018 , 3, 8514-8520	3.9	73
48	Enhancing adsorption capacity while maintaining specific recognition performance of mesoporous silica: a novel imprinting strategy with amphiphilic ionic liquid as surfactant. <i>Nanotechnology</i> , 2018 , 29, 375604	3.4	19
47	BSA-caged metal clusters to exfoliate MoS nanosheets towards their hybridized functionalization. <i>Nanoscale</i> , 2018 , 10, 10911-10917	7.7	12
46	Surface-Mediated Chemical Dissolution of Two-Dimensional Nanomaterials toward Hole Creation. <i>Chemistry of Materials</i> , 2018 , 30, 5108-5115	9.6	12
45	Electrostatic-Driven Exfoliation and Hybridization of 2D Nanomaterials. <i>Advanced Materials</i> , 2017 , 29, 1700326	24	46
44	Carbon nanoscroll-silk crystallite hybrid structures with controllable hydration and mechanical properties. <i>Nanoscale</i> , 2017 , 9, 9181-9189	7.7	18
43	Concentrating synthetic estrogen 17 β ethinylestradiol using microporous polyethersulfone hollow fiber membranes: Experimental exploration and molecular simulation. <i>Chemical Engineering Journal</i> , 2017 , 314, 80-87	14.7	12
42	Structure, Stability, and Kinetics of Vacancy Defects in Monolayer PtSe: A First-Principles Study. <i>ACS Omega</i> , 2017 , 2, 8640-8648	3.9	31
41	Thermal conductivity of penta-graphene: The role of chemical functionalization. <i>Computational Materials Science</i> , 2017 , 137, 195-200	3.2	23
40	From two-dimensional nano-sheets to roll-up structures: expanding the family of nanoscroll. <i>Nanotechnology</i> , 2017 , 28, 385704	3.4	18
39	High-Level Incorporation of Silver in Gold Nanoclusters: Fluorescence Redshift upon Interaction with Hydrogen Peroxide and Fluorescence Enhancement with Herbicide. <i>Chemistry - A European Journal</i> , 2016 , 22, 1675-81	4.8	18
38	Diamond Nanothread as a New Reinforcement for Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 5279-5283	15.6	49
37	Adsorption and Conformational Evolution of Alpha-Helical BSA Segments on Graphene: A Molecular Dynamics Study. <i>International Journal of Applied Mechanics</i> , 2016 , 08, 1650021	2.4	8

36	From brittle to ductile: a structure dependent ductility of diamond nanothread. <i>Nanoscale</i> , 2016 , 8, 11177-84	7.84	65
35	Protein Induces Layer-by-Layer Exfoliation of Transition Metal Dichalcogenides. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6152-5	16.4	303
34	Peptide-Graphene Interactions Enhance the Mechanical Properties of Silk Fibroin. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21787-96	9.5	55
33	A molecular dynamics study on thermal and mechanical properties of graphene-paraffin nanocomposites. <i>RSC Advances</i> , 2015 , 5, 82638-82644	3.7	40
32	Pulling out a peptide chain from β -sheet crystallite: Propagation of instability of H-bonds under shear force. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015 , 31, 416-424	2	28
31	Destabilization of Thiolated Gold Clusters for the Growth of Single-Crystalline Gold Nanoparticles and Their Self-Assembly for SERS Detection. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 588-595	3.1	6
30	Integrated Optic Disc and Cup Segmentation with Deep Learning 2015 ,		34
29	Structures, mechanical properties and applications of silk fibroin materials. <i>Progress in Polymer Science</i> , 2015 , 46, 86-110	29.6	558
28	Performance Analysis of Active Shape Reconstruction of Fractured, Incomplete Skulls. <i>Lecture Notes in Computer Science</i> , 2015 , 312-324	0.9	5
27	Plane-Fitting Robust Registration for Complex 3D Models. <i>Lecture Notes in Computer Science</i> , 2015 , 640-651		51
26	On the strength of β -sheet crystallites of Bombyx mori silk fibroin. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140305	4.1	103
25	DEFORMATION OF GRAPHENE INDUCED BY ADSORPTION OF PEPTIDES: A MOLECULAR DYNAMICS STUDY. <i>International Journal of Applied Mechanics</i> , 2013 , 05, 1350007	2.4	9
24	A molecular dynamics investigation on mechanical properties of hydrogenated graphynes. <i>Journal of Applied Physics</i> , 2013 , 114, 073504	2.5	18
23	Surface Energy-Controlled Self-Collapse of Carbon Nanotube Bundles With Large and Reversible Volumetric Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	6
22	Dense Correspondence of Skull Models by Automatic Detection of Anatomical Landmarks. <i>Lecture Notes in Computer Science</i> , 2013 , 229-236	0.9	10
21	Background Recovery by Fixed-Rank Robust Principal Component Analysis. <i>Lecture Notes in Computer Science</i> , 2013 , 54-61	0.9	9
20	Substrate-supported carbon nanoscroll oscillator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 955-959	3	19
19	Atomistic simulation study on key factors dominating dislocation nucleation from a crack tip in two FCC materials: Cu and Al. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3345-3354	3.1	21

18	Automatic identification of Frankfurt plane and mid-sagittal plane of skull 2012 ,		6
17	Thermal conductivity of defective graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3668-3672	2.3	78
16	Mechanical properties of bilayer graphene sheets coupled by sp ³ bonding. <i>Carbon</i> , 2011 , 49, 4511-4517	10.4	191
15	Atomistic simulation of dislocation-void interactions under cyclic loading. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010 , 18, 025006	2	12
14	Correcting over-exposure in photographs 2010 ,		30
13	A translational nanoactuator based on carbon nanoscrolls on substrates. <i>Applied Physics Letters</i> , 2010 , 96, 053115	3.4	77
12	Structure-based design of carbon nanotubes as HIV-1 protease inhibitors: atomistic and coarse-grained simulations. <i>Journal of Molecular Graphics and Modelling</i> , 2010 , 29, 171-7	2.8	33
11	On intrinsic brittleness and ductility of intergranular fracture along symmetrical tilt grain boundaries in copper. <i>Acta Materialia</i> , 2010 , 58, 2293-2299	8.4	59
10	Tunable water channels with carbon nanoscrolls. <i>Small</i> , 2010 , 6, 739-44	11	105
9	Analytical description of Ogston-regime biomolecule separation using nanofilters and nanopores. <i>Physical Review E</i> , 2009 , 80, 041911	2.4	5
8	Gigahertz breathing oscillators based on carbon nanoscrolls. <i>Applied Physics Letters</i> , 2009 , 95, 163113	3.4	55
7	Molecular-dynamics studies of competitive replacement in peptide-nanotube assembly for control of drug release. <i>Nanotechnology</i> , 2009 , 20, 145101	3.4	18
6	Molecular dynamics study on DNA oligonucleotide translocation through carbon nanotubes. <i>Journal of Chemical Physics</i> , 2008 , 129, 125101	3.9	23
5	A thermodynamic study of peptides binding to carbon nanotubes based on a hydrophobic-polar lattice model using Monte Carlo simulations. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 055308	3	5
4	Continuum transport model of Ogston sieving in patterned nanofilter arrays for separation of rod-like biomolecules. <i>Electrophoresis</i> , 2008 , 29, 329-39	3.6	20
3	Computational analysis of binding free energies between peptides and single-walled carbon nanotubes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 367, 293-304	3.3	35
2	Thermodynamic analysis of protein sequence-structure relationships in monomer and dimer forms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 354, 381-392	3.3	19
1	A STUDY ON SELF-INSERTION OF PEPTIDES INTO SINGLE-WALLED CARBON NANOTUBES BASED ON MOLECULAR DYNAMICS SIMULATION. <i>International Journal of Modern Physics C</i> , 2005 , 16, 1239-1250	1.1	35

