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List of Publications by Citations

367 papers	13,104 citations	58 h-index	98 g-index
393 ext. papers	15,226 ext. citations	8.1 avg, IF	6.69 L-index

#	Paper	IF	Citations
367	Self-assembly of a nanoscale DNA box with a controllable lid. *Nature*, **2009**, 459, 73-6	50.4	1247
366	Opportunities and challenges for biodiesel fuel. *Applied Energy*, **2011**, 88, 1020-1031	10.7	477
365	Filamentous bacteria transport electrons over centimetre distances. *Nature*, **2012**, 491, 218-21	50.4	364
364	The influence of polymeric properties on chitosan/siRNA nanoparticle formulation and gene silencing. *Biomaterials*, **2007**, 28, 1280-8	15.6	339
363	Facile Synthesis of Single Crystal PtSe Nanosheets for Nanoscale Electronics. *Advanced Materials*, **2016**, 28, 10224-10229	24	246
362	A swarm of slippery micropropellers penetrates the vitreous body of the eye. *Science Advances*, **2018**, 4, eaat4388	14.3	240
361	DNA origami design of dolphin-shaped structures with flexible tails. *ACS Nano*, **2008**, 2, 1213-8	16.7	220
360	CO oxidation over graphene supported palladium catalyst. *Applied Catalysis B: Environmental*, **2012**, 125, 189-196	21.8	192
359	Chitosan/siRNA nanoparticles encapsulated in PLGA nanofibers for siRNA delivery. *ACS Nano*, **2012**, 6, 4835-44	16.7	167
358	Controllable etching of MoS2 basal planes for enhanced hydrogen evolution through the formation of active edge sites. *Nano Energy*, **2018**, 49, 634-643	17.1	166
357	DNA brick crystals with prescribed depths. *Nature Chemistry*, **2014**, 6, 994-1002	17.6	150
356	Coupling N and CO in HO to synthesize urea under ambient conditions. *Nature Chemistry*, **2020**, 12, 717-724	17.6	146
355	Routing of individual polymers in designed patterns. *Nature Nanotechnology*, **2015**, 10, 892-8	28.7	142
354	Microfluidic Synthesis of Hybrid Nanoparticles with Controlled Lipid Layers: Understanding Flexibility-Regulated Cell-Nanoparticle Interaction. *ACS Nano*, **2015**, 9, 9912-21	16.7	132
353	Photoactive antimicrobial nanomaterials. *Journal of Materials Chemistry B*, **2017**, 5, 8631-8652	7.3	122
352	Determination of protein structural flexibility by microsecond force spectroscopy. *Nature Nanotechnology*, **2009**, 4, 514-7	28.7	122
351	Fabrication of carbon nanoscrolls from monolayer graphene. *Small*, **2010**, 6, 2010-9	11	113

350	Two-dimensional material confined water. *Accounts of Chemical Research*, **2015**, 48, 119-27	24.3	112
349	Nickel nanoparticles encapsulated in porous carbon and carbon nanotube hybrids from bimetallic metal-organic-frameworks for highly efficient adsorption of dyes. *Journal of Colloid and Interface Science*, **2018**, 509, 245-253	9.3	111
348	Theoretical approaches to graphene and graphene-based materials. *Nano Today*, **2012**, 7, 180-200	17.9	109
347	Morphologies, Preparations and Applications of Layered Double Hydroxide Micro-/Nanostructures. *Materials*, **2010**, 3, 5220-5235	3.5	108
346	Thermo-Responsive Core–Sheath Electrospun Nanofibers from Poly (N-isopropylacrylamide)/Polycaprolactone Blends. *Chemistry of Materials*, **2010**, 22, 4214-4221	9.6	107
345	Cyanuric acid and melamine on Au111: structure and energetics of hydrogen-bonded networks. *Small*, **2007**, 3, 854-8	11	103
344	Tactile-Sensing Based on Flexible PVDF Nanofibers via Electrospinning: A Review. *Sensors*, **2018**, 18,	3.8	101
343	A novel MnO2/Ti3C2Tx MXene nanocomposite as high performance electrode materials for flexible supercapacitors. *Electrochimica Acta*, **2018**, 290, 695-703	6.7	100
342	Tweaking the composition of NiMoZn alloy electrocatalyst for enhanced hydrogen evolution reaction performance. *Nano Energy*, **2015**, 12, 9-18	17.1	99
341	Electrochemical approach for constructing a monolayer of thiophenolates from grafted multilayers of diaryl disulfides. *Journal of the American Chemical Society*, **2007**, 129, 1888-9	16.4	98
340	Carbothermal activation synthesis of 3D porous g-C3N4/carbon nanosheets composite with superior performance for CO2 photoreduction. *Applied Catalysis B: Environmental*, **2018**, 239, 196-203	21.8	92
339	Supramolecular nanopatterns self-assembled by adenine-thymine quartets at the liquid/solid interface. *Journal of the American Chemical Society*, **2006**, 128, 13305-11	16.4	91
338	The ambipolar transport behavior of WSe2 transistors and its analogue circuits. *NPG Asia Materials*, **2018**, 10, 703-712	10.3	86
337	Coexistence of ribbon and helical fibrils originating from hIAPP(20-29) revealed by quantitative nanomechanical atomic force microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2798-803	11.5	83
336	A high efficiency H2S gas sensor material: paper like Fe2O3/graphene nanosheets and structural alignment dependency of device efficiency. *Journal of Materials Chemistry A*, **2014**, 2, 6714-6717	13	79
335	Quartz crystal microbalance studies of multilayer glucagon fibrillation at the solid-liquid interface. *Biophysical Journal*, **2007**, 93, 2162-9	2.9	79
334	Coadsorption of guanine and cytosine on graphite: ordered structure based on GC pairing. *Nano Letters*, **2006**, 6, 1434-8	11.5	79
333	Ultrathin TiCT (MXene) Nanosheet-Wrapped NiSe Octahedral Crystal for Enhanced Supercapacitor Performance and Synergetic Electrocatalytic Water Splitting. *Nano-Micro Letters*, **2019**, 11, 31	19.5	78

332	Microorganism Assisted Synthesized Nanoparticles for Catalytic Applications. *Energies*, **2019**, 12, 190	3.1	77
331	Mapping surface charge density of lipid bilayers by quantitative surface conductivity microscopy. *Nature Communications*, **2016**, 7, 12447	17.4	77
330	Chitosan/siRNA nanoparticles biofunctionalize nerve implants and enable neurite outgrowth. *Nano Letters*, **2010**, 10, 3933-9	11.5	76
329	Using a hydrazone-protected benzenediazonium salt to introduce a near-monolayer of benzaldehyde on glassy carbon surfaces. *Journal of the American Chemical Society*, **2009**, 131, 4928-36	16.4	76
328	Reversing Interfacial Catalysis of Ambipolar WSe Single Crystal. *Advanced Science*, **2020**, 7, 1901382	13.6	75
327	Porous graphene sandwich/poly(vinylidene fluoride) composites with high dielectric properties. *Composites Science and Technology*, **2013**, 86, 70-75	8.6	72
326	The core/shell composite nanowires produced by self-scrolling carbon nanotubes onto copper nanowires. *ACS Nano*, **2009**, 3, 2235-40	16.7	72
325	MIL-68 (In) nano-rods for the removal of Congo red dye from aqueous solution. *Journal of Colloid and Interface Science*, **2015**, 453, 270-275	9.3	71
324	Self-scrolling MoS metallic wires. *Nanoscale*, **2018**, 10, 18178-18185	7.7	70
323	Tumour exosomes display differential mechanical and complement activation properties dependent on malignant state: implications in endothelial leakiness. *Journal of Extracellular Vesicles*, **2015**, 4, 29685	16.4	69
322	Two-dimensional supramolecular nanopatterns formed by the coadsorption of guanine and uracil at the liquid/solid interface. *Journal of the American Chemical Society*, **2008**, 130, 695-702	16.4	67
321	Biomimetic cardiovascular stents for in vivo re-endothelialization. *Biomaterials*, **2016**, 103, 170-182	15.6	67
320	Gigantic enhancement in the dielectric properties of polymer-based composites using core/shell MWCNT/amorphous carbon nanohybrids. *Nanoscale*, **2015**, 7, 3660-7	7.7	65
319	Electrochemical reduction of CO2 on compositionally variant Au-Pt bimetallic thin films. *Nano Energy*, **2017**, 42, 51-57	17.1	64
318	Two-Dimensional Conjugated Metal Bis(dithiolene) Complex Nanosheets as Selective Catalysts for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2015**, 119, 28028-28037	3.8	64
317	Quantitative biomolecular imaging by dynamic nanomechanical mapping. *Chemical Society Reviews*, **2014**, 43, 7412-29	58.5	64
316	Modulating a3-42 peptide assembly by graphene oxide. *Chemistry - A European Journal*, **2014**, 20, 7236-48	4.8	64
315	Direct electrospinning of Ag/polyvinylpyrrolidone nanocables. *Nanoscale*, **2011**, 3, 4966-71	7.7	64

314	Direct visualization of transient thermal response of a DNA origami. *Journal of the American Chemical Society*, **2012**, 134, 9844-7	16.4	63
313	The role of self-assembling polypeptides in building nanomaterials. *Physical Chemistry Chemical Physics*, **2011**, 13, 17435-44	3.6	61
312	Quantification of the interaction forces between metals and graphene by quantum chemical calculations and dynamic force measurements under ambient conditions. *ACS Nano*, **2013**, 7, 1646-51	16.7	60
311	Influence of hydrophobicity on the surface-catalyzed assembly of the islet amyloid polypeptide. *ACS Nano*, **2011**, 5, 2770-8	16.7	59
310	Synthesis, characterization and electrical properties of silicon-doped graphene films. *Journal of Materials Chemistry C*, **2015**, 3, 6301-6306	7.1	58
309	Nanoliposomes containing Eucalyptus citriodora as antibiotic with specific antimicrobial activity. *Chemical Communications*, **2015**, 51, 2653-5	5.8	57
308	A nanomechanical interface to rapid single-molecule interactions. *Nature Communications*, **2011**, 2, 247	17.4	57
307	Electroactive Scaffolds for Neurogenesis and Myogenesis: Graphene-Based Nanomaterials. *Small*, **2018**, 14, e1801983	11	57
306	Point-Defect Mediated Bonding of Pt Clusters on (5,5) Carbon Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 890-893	3.8	55
305	Evidence of Stranski-Krastanov growth at the initial stage of atmospheric water condensation. *Nature Communications*, **2014**, 5, 4837	17.4	52
304	Protection and Systemic Translocation of siRNA Following Oral Administration of Chitosan/siRNA Nanoparticles. *Molecular Therapy - Nucleic Acids*, **2013**, 2, e76	10.7	52
303	Rapid, Acid-Free Synthesis of High-Quality Graphene Quantum Dots for Aggregation Induced Sensing of Metal Ions and Bioimaging. *ACS Omega*, **2017**, 2, 8051-8061	3.9	52
302	DNA-templated covalent coupling of G4 PAMAM dendrimers. *Journal of the American Chemical Society*, **2010**, 132, 18054-6	16.4	52
301	Conformational changes in mannan-binding lectin bound to ligand surfaces. *Journal of Immunology*, **2007**, 178, 3016-22	5.3	52
300	Visible-Light Neural Stimulation on Graphitic-Carbon Nitride/Graphene Photocatalytic Fibers. *ACS Applied Materials & Interfaces*, **2017**, 9, 34736-34743	9.5	51
299	AFM study of glucagon fibrillation via oligomeric structures resulting in interwoven fibrils. *Nanotechnology*, **2006**, 17, 4003-9	3.4	49
298	A novel L-ficolin/mannose-binding lectin chimeric molecule with enhanced activity against Ebola virus. *Journal of Biological Chemistry*, **2010**, 285, 24729-39	5.4	48
297	Coexistence of homochiral and heterochiral adenine domains at the liquid/solid interface. *Journal of Physical Chemistry B*, **2007**, 111, 12048-52	3.4	47

296	Nanocarrier stimuli-activated gene delivery. *Small*, **2007**, 3, 54-7	11	47
295	Size Effect of Graphene Oxide on Modulating Amyloid Peptide Assembly. *Chemistry - A European Journal*, **2015**, 21, 9632-7	4.8	46
294	Room-temperature high-sensitivity detection of ammonia gas using the capacitance of carbon/silicon heterojunctions. *Energy and Environmental Science*, **2010**, 3, 288	35.4	46
293	Modulation the electronic property of 2D monolayer MoS2 by amino acid. *Applied Materials Today*, **2019**, 14, 151-158	6.6	46
292	Membrane destruction and phospholipid extraction by using two-dimensional MoS nanosheets. *Nanoscale*, **2018**, 10, 20162-20170	7.7	46
291	Ag-CuFeO magnetic hollow fibers for recyclable antibacterial materials. *Journal of Materials Chemistry B*, **2013**, 1, 2719-2723	7.3	45
290	A revertible, autonomous, self-assembled DNA-origami nanoactuator. *Nano Letters*, **2011**, 11, 5449-54	11.5	45
289	In-situ homodispersely immobilization of Ag@AgCl on chloridized g-C3N4 nanosheets as an ultrastable plasmonic photocatalyst. *Chemical Engineering Journal*, **2020**, 384, 123259	14.7	45
288	Ultrastable metal-free near-infrared-driven photocatalysts for H2 production based on protonated 2D g-C3N4 sensitized with Chlorin e6. *Applied Catalysis B: Environmental*, **2020**, 260, 118137	21.8	45
287	3D anisotropic photocatalytic architectures as bioactive nerve guidance conduits for peripheral neural regeneration. *Biomaterials*, **2020**, 253, 120108	15.6	44
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285	From two-dimension to one-dimension: the curvature effect of silicon-doped graphene and carbon nanotubes for oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 17479-86	3.6	42
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281	Direct force measurements between siRNA and chitosan molecules using force spectroscopy. *Biophysical Journal*, **2007**, 93, 952-9	2.9	41
280	Controlled synthesis of high-quality crystals of monolayer MoS2 for nanoelectronic device application. *Science China Materials*, **2016**, 59, 182-190	7.1	41
279	MOF-derived magnetic Ni-carbon submicrorods for the catalytic reduction of 4-nitrophenol. *Catalysis Communications*, **2018**, 107, 43-47	3.2	41

278	Engineering single-atom dynamics with electron irradiation. *Science Advances*, **2019**, 5, eaav2252	14.3	39
277	Ultraporous interweaving electrospun microfibers from PCL-PEO binary blends and their inflammatory responses. *Nanoscale*, **2014**, 6, 3392-402	7.7	39
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274	Enhanced catalytic activity of lipase encapsulated in PCL nanofibers. *Langmuir*, **2012**, 28, 6157-62	4	38
273	Electrospun UV-responsive supramolecular nanofibers from a cyclodextrin□zobenzene inclusion complex. *Journal of Materials Chemistry C*, **2013**, 1, 850-855	7.1	37
272	In Situ Cross-Linked PNIPAM/Gelatin Nanofibers for Thermo-Responsive Drug Release. *Macromolecular Materials and Engineering*, **2015**, 300, 1226-1231	3.9	37
271	Mechanical reinforcement fibers produced by gel-spinning of poly-acrylic acid (PAA) and graphene oxide (GO) composites. *Nanoscale*, **2013**, 5, 6265-9	7.7	37
270	Hydrated human corneal stroma revealed by quantitative dynamic atomic force microscopy at nanoscale. *ACS Nano*, **2014**, 8, 6873-82	16.7	36
269	Co-assembly of human islet amyloid polypeptide (hIAPP)/insulin. *Chemical Communications*, **2012**, 48, 191-3	5.8	36
268	Long-range electron transfer in recombinant peroxidases anisotropically orientated on gold electrodes. *Physical Chemistry Chemical Physics*, **2010**, 12, 10098-107	3.6	36
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263	Exploring the Nanotoxicology of MoS: A Study on the Interaction of MoS Nanoflakes and K Channels. *ACS Nano*, **2018**, 12, 705-717	16.7	34
262	Improved performance of SrFe12O19 bulk magnets through bottom-up nanostructuring. *Nanoscale* , **2016**, 8, 2857-66	7.7	33
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258	AFM-based force spectroscopy measurements of mature amyloid fibrils□of□the peptide glucagon. *Nanotechnology*, **2008**, 19, 384013	3.4	31
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255	Pyridyne cycloaddition of graphene: □external□active sites for oxygen reduction reaction. *Journal of Materials Chemistry A*, **2014**, 2, 897-901	13	30
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253	Tuning the hydrophobicity of mica surfaces by hyperthermal Ar ion irradiation. *Journal of Chemical Physics*, **2011**, 134, 104705	3.9	30
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251	Lipidoid-polymer hybrid nanoparticles loaded with TNF siRNA suppress inflammation after intra-articular administration in a murine experimental arthritis model. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 142, 38-48	5.7	28
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243	Ionic Liquid-Assisted Synthesis of Hierarchical One-Dimensional MoP/NPC for High-Performance Supercapacitor and Electrocatalysis. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6343-6351	8.3	27

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240	Structural insights into the intrinsic self-assembly of Par-3 N-terminal domain. *Structure*, **2013**, 21, 997-1006	3.6	26
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230	Surface Amino Group Regulation and Structural Engineering of Graphitic Carbon Nitride with Enhanced Photocatalytic Activity by Ultrafast Ammonia Plasma Immersion Modification. *ACS Applied Materials & Interfaces*, **2019**, 11, 14952-14959	9.5	24
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207	Chitosan-coated poly(lactic-co-glycolic acid) perfluorooctyl bromide nanoparticles for cell labeling in (19)F magnetic resonance imaging. *Carbohydrate Polymers*, **2016**, 136, 936-44	10.3	20

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