Xiaodong Chen

List of Publications by Citations

412 papers	34,066 citations	96 h-index	173 g-index
449 ext. papers	39,437 ext. citations	15 avg, IF	7.68 L-index

#	Paper	IF	Citations
412	Single-layer MoS2 phototransistors. *ACS Nano*, **2012**, 6, 74-80	16.7	2704
411	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. *Nature Chemistry*, **2012**, 4, 310-6	17.6	1549
410	Heterogeneous visible light photocatalysis for selective organic transformations. *Chemical Society Reviews*, **2014**, 43, 473-86	58.5	1061
409	Rational material design for ultrafast rechargeable lithium-ion batteries. *Chemical Society Reviews*, **2015**, 44, 5926-40	58.5	716
408	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
407	A leavening strategy to prepare reduced graphene oxide foams. *Advanced Materials*, **2012**, 24, 4144-50	24	701
406	High-Performance Photothermal Conversion of Narrow-Bandgap Ti O Nanoparticles. *Advanced Materials*, **2017**, 29, 1603730	24	529
405	All-solid-state flexible ultrathin micro-supercapacitors based on graphene. *Advanced Materials*, **2013**, 25, 4035-42	24	449
404	Highly stretchable, integrated supercapacitors based on single-walled carbon nanotube films with continuous reticulate architecture. *Advanced Materials*, **2013**, 25, 1058-64	24	440
403	Microstructured graphene arrays for highly sensitive flexible tactile sensors. *Small*, **2014**, 10, 3625-31	11	426
402	Nature-Inspired Structural Materials for Flexible Electronic Devices. *Chemical Reviews*, **2017**, 117, 12893-12941	58.2	401
401	Nanostructured graphene composite papers for highly flexible and foldable supercapacitors. *Advanced Materials*, **2014**, 26, 4855-62	24	364
400	Assembly of graphene sheets into hierarchical structures for high-performance energy storage. *ACS Nano*, **2011**, 5, 3831-8	16.7	364
399	Mechanical force-driven growth of elongated bending TiO2 -based nanotubular materials for ultrafast rechargeable lithium ion batteries. *Advanced Materials*, **2014**, 26, 6111-8	24	358
398	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. *Advanced Functional Materials*, **2019**, 29, 1806220	15.6	342
397	Silk Fibroin for Flexible Electronic Devices. *Advanced Materials*, **2016**, 28, 4250-65	24	340
396	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. *Nanoscale*, **2011**, 3, 1084-9	7.7	330

395	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. *Journal of the American Chemical Society*, **2018**, 140, 5280-5289	16.4	312
394	Flexible and Stretchable Devices. *Advanced Materials*, **2016**, 28, 4177-9	24	309
393	A mechanically and electrically self-healing supercapacitor. *Advanced Materials*, **2014**, 26, 3638-43	24	304
392	Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. *Advanced Materials*, **2017**, 29, 1602802	24	295
391	A Skeleton/skin strategy for preparing ultrathin free-standing single-walled carbon nanotube/polyaniline films for high performance supercapacitor electrodes. *Energy and Environmental Science*, **2012**, 5, 8726	35.4	282
390	Cooperative photoredox catalysis. *Chemical Society Reviews*, **2016**, 45, 3026-38	58.5	264
389	A wireless body area sensor network based on stretchable passive tags. *Nature Electronics*, **2019**, 2, 361-368	34	258
388	3D Printed Photoresponsive Devices Based on Shape Memory Composites. *Advanced Materials*, **2017**, 29, 1701627	24	257
387	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. *Advanced Functional Materials*, **2013**, 23, 2932-2940	15.6	255
386	Graphene/nanosized silicon composites for lithium battery anodes with improved cycling stability. *Carbon*, **2011**, 49, 1787-1796	10.4	248
385	Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. *Advanced Materials*, **2015**, 27, 6230-7	24	230
384	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. *Advanced Materials*, **2015**, 27, 5559-66	24	228
383	Colorimetric detection of mercury ions based on plasmonic nanoparticles. *Small*, **2013**, 9, 1467-81	11	226
382	An Artificial Sensory Neuron with Tactile Perceptual Learning. *Advanced Materials*, **2018**, 30, e1801291	24	216
381	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. *Advanced Materials*, **2018**, 30, e1706589	24	213
380	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Noble-Metal-Free Electrocatalyst Derived from Metal-Organic Frameworks. *Advanced Energy Materials*, **2016**, 6, 1501497	21.8	207
379	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO Nanowire Composite. *Advanced Materials*, **2018**, 30, 1704531	24	202
378	Materials and structural designs of stretchable conductors. *Chemical Society Reviews*, **2019**, 48, 2946-2968	58.5	189

377	Flexible Transparent Electronic Gas Sensors. *Small*, **2016**, 12, 3748-56	11	189
376	Highly compressible and all-solid-state supercapacitors based on nanostructured composite sponge. *Advanced Materials*, **2015**, 27, 6002-8	24	187
375	Langmuir-Blodgett patterning: a bottom-up way to build mesostructures over large areas. *Accounts of Chemical Research*, **2007**, 40, 393-401	24.3	187
374	Flexible Transparent Films Based on Nanocomposite Networks of Polyaniline and Carbon Nanotubes for High-Performance Gas Sensing. *Small*, **2015**, 11, 5409-15	11	186
373	Sericin for resistance switching device with multilevel nonvolatile memory. *Advanced Materials*, **2013**, 25, 5498-503	24	184
372	Renewable-juglone-based high-performance sodium-ion batteries. *Advanced Materials*, **2015**, 27, 2348-54	14	181
371	Visible-Light-Induced Photoredox Catalysis of Dye-Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. *Angewandte Chemie - International Edition*, **2016**, 55, 4697-700	16.4	179
370	Orthogonally modulated molecular transport junctions for resettable electronic logic gates. *Nature Communications*, **2014**, 5, 3023	17.4	179
369	Wet-Chemical Processing of Phosphorus Composite Nanosheets for High-Rate and High-Capacity Lithium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502409	21.8	173
368	Nanoparticles strengthen intracellular tension and retard cellular migration. *Nano Letters*, **2014**, 14, 83-8	11.5	168
367	Ambient fabrication of large-area graphene films via a synchronous reduction and assembly strategy. *Advanced Materials*, **2013**, 25, 2957-62	24	162
366	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. *Advanced Materials*, **2018**, 30, e1800129	24	160
365	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. *Advanced Materials*, **2018**, 30, 1704229	24	159
364	High-performance and tailorable pressure sensor based on ultrathin conductive polymer film. *Small* , **2014**, 10, 1466-72	11	157
363	Soft Thermal Sensor with Mechanical Adaptability. *Advanced Materials*, **2016**, 28, 9175-9181	24	155
362	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. *Advanced Materials*, **2016**, 28, 1567-76	24	154
361	A universal strategy to prepare functional porous graphene hybrid architectures. *Advanced Materials*, **2014**, 26, 3681-7	24	152
360	Unravelling the correlation between the aspect ratio of nanotubular structures and their electrochemical performance to achieve high-rate and long-life lithium-ion batteries. *Angewandte Chemie - International Edition*, **2014**, 53, 13488-92	16.4	152

359	Assembly of graphene sheets into 3D macroscopic structures. *Small*, **2012**, 8, 2458-63	11	152
358	Gram-positive antimicrobial activity of amino acid-based hydrogels. *Advanced Materials*, **2015**, 27, 648-54	24	148
357	Beam pen lithography. *Nature Nanotechnology*, **2010**, 5, 637-40	28.7	147
356	Engineering 2D Architectures toward High-Performance Micro-Supercapacitors. *Advanced Materials*, **2019**, 31, e1802793	24	143
355	Configurable Resistive Switching between Memory and Threshold Characteristics for Protein-Based Devices. *Advanced Functional Materials*, **2015**, 25, 3825-3831	15.6	142
354	Engineering interfacial photo-induced charge transfer based on nanobamboo array architecture for efficient solar-to-chemical energy conversion. *Advanced Materials*, **2015**, 27, 2207-14	24	141
353	Stretchable Organic Semiconductor Devices. *Advanced Materials*, **2016**, 28, 9243-9265	24	139
352	Calcinable Polymer Membrane with Revivability for Efficient Oily-Water Remediation. *Advanced Materials*, **2018**, 30, e1801870	24	139
351	Programmable photo-electrochemical hydrogen evolution based on multi-segmented CdS-Au nanorod arrays. *Advanced Materials*, **2014**, 26, 3506-12	24	138
350	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. *Nature Electronics*, **2020**, 3, 563-570	28.4	137
349	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1806596	24	137
348	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. *Advanced Materials*, **2016**, 28, 1559-66	24	135
347	Supramolecular hydrogels for antimicrobial therapy. *Chemical Society Reviews*, **2018**, 47, 6917-6929	58.5	128
346	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. *Journal of Materials Chemistry A*, **2013**, 1, 82-88	13	126
345	Healable, Transparent, Room-Temperature Electronic Sensors Based on Carbon Nanotube Network-Coated Polyelectrolyte Multilayers. *Small*, **2015**, 11, 5807-13	11	126
344	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. *Nature Communications*, **2019**, 10, 5384	17.4	126
343	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. *Nature Communications*, **2019**, 10, 81	17.4	125
342	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH)3 Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. *ACS Nano*, **2015**, 9, 9292-302	16.7	123

341	High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. *Advanced Materials*, **2017**, 29, 1603382	24	122
340	Physically Transient Resistive Switching Memory Based on Silk Protein. *Small*, **2016**, 12, 2715-9	11	121
339	A synergistic capture strategy for enhanced detection and elimination of bacteria. *Angewandte Chemie - International Edition*, **2014**, 53, 5837-41	16.4	119
338	Gemini Surfactant/DNA Complex Monolayers at the Air□Water Interface:□Effect of Surfactant Structure on the Assembly, Stability, and Topography of Monolayers. *Langmuir*, **2002**, 18, 6222-6228	4	119
337	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. *Small*, **2013**, 9, 996-1002	11	118
336	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. *Advanced Energy Materials*, **2013**, 3, 1368-1380	21.8	118
335	Fluoroethylene Carbonate Enabling a Robust LiF-rich Solid Electrolyte Interphase to Enhance the Stability of the MoS Anode for Lithium-Ion Storage. *Angewandte Chemie - International Edition*, **2018**, 57, 3656-3660	16.4	117
334	Resistive Switching Memory Devices Based on Proteins. *Advanced Materials*, **2015**, 27, 7670-6	24	117
333	Highly stretchable gold nanobelts with sinusoidal structures for recording electrocorticograms. *Advanced Materials*, **2015**, 27, 3145-51	24	114
332	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. *Advanced Materials*, **2017**, 29, 1701828	24	114
331	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. *Advanced Materials*, **2018**, 30, e1805468	24	114
330	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). *Nano Energy*, **2017**, 37, 126-135	17.1	113
329	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. *Advanced Functional Materials*, **2016**, 26, 7708-7716	15.6	112
328	A colorimetric logic gate based on free gold nanoparticles and the coordination strategy between melamine and mercury ions. *Chemical Communications*, **2013**, 49, 4196-8	5.8	112
327	Biophysical responses upon the interaction of nanomaterials with cellular interfaces. *Accounts of Chemical Research*, **2013**, 46, 782-91	24.3	111
326	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. *Advanced Materials*, **2017**, 29, 1702800	24	110
325	Graphene-based wearable piezoresistive physical sensors. *Materials Today*, **2020**, 36, 158-179	21.8	109
324	Organic Dots with Aggregation-Induced Emission (AIE Dots) Characteristics for Dual-Color Cell Tracing. *Chemistry of Materials*, **2013**, 25, 4181-4187	9.6	108

323	Hierarchical graphene-polyaniline nanocomposite films for high-performance flexible electronic gas sensors. *Nanoscale*, **2016**, 8, 12073-80	7.7	106
322	3D Macroporous Nitrogen-Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. *Advanced Energy Materials*, **2017**, 7, 1601364	21.8	102
321	Spectroscopic tracking of molecular transport junctions generated by using click chemistry. *Angewandte Chemie - International Edition*, **2009**, 48, 5178-81	16.4	100
320	Functional Free-Standing Graphene Honeycomb Films. *Advanced Functional Materials*, **2013**, 23, 2972-2978	19.6	99
319	Enhanced photocatalytic degradation of phenol and photogenerated charges transfer property over BiOI-loaded ZnO composites. *Journal of Colloid and Interface Science*, **2017**, 494, 130-138	9.3	98
318	Chemical fabrication of heterometallic nanogaps for molecular transport junctions. *Nano Letters*, **2009**, 9, 3974-9	11.5	98
317	Artificial Sensory Memory. *Advanced Materials*, **2020**, 32, e1902434	24	98
316	Urine for plasmonic nanoparticle-based colorimetric detection of mercury ion. *Small*, **2013**, 9, 4104-11	11	96
315	Porous graphene materials for water remediation. *Small*, **2014**, 10, 3434-41	11	94
314	On-wire lithography-generated molecule-based transport junctions: a new testbed for molecular electronics. *Journal of the American Chemical Society*, **2008**, 130, 8166-8	16.4	94
313	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. *Advanced Materials*, **2019**, 31, e1806385	24	94
312	Programmable Nano-Bio Interfaces for Functional Biointegrated Devices. *Advanced Materials*, **2017**, 29, 1605529	24	91
311	Photo-modulable molecular transport junctions based on organometallic molecular wires. *Chemical Science*, **2012**, 3, 3113	9.4	90
310	Nanostructured TiO2-Based Anode Materials for High-Performance Rechargeable Lithium-Ion Batteries. *ChemNanoMat*, **2016**, 2, 764-775	3.5	90
309	Healable Transparent Electronic Devices. *Advanced Functional Materials*, **2017**, 27, 1606339	15.6	89
308	Controlled synthesis of hollow Cu□k Te nanocrystals based on the Kirkendall effect and their enhanced CO gas-sensing properties. *Small*, **2013**, 9, 793-9	11	87
307	Cu2ZnSn(S,Se)4 kesterite solar cell with 5.1% efficiency using spray pyrolysis of aqueous precursor solution followed by selenization. *Solar Energy Materials and Solar Cells*, **2014**, 124, 55-60	6.4	85
306	Ambient dissolution□ecrystallization towards large-scale preparation of V 2 O 5 nanobelts for high-energy battery applications. *Nano Energy*, **2016**, 22, 583-593	17.1	82

305	Lateral Patterning of Luminescent CdSe Nanocrystals by Selective Dewetting from Self-Assembled Organic Templates. *Nano Letters*, **2004**, 4, 885-888	11.5	82
304	A flexible transparent colorimetric wrist strap sensor. *Nanoscale*, **2017**, 9, 869-874	7.7	81
303	Tertiary amine mediated aerobic oxidation of sulfides into sulfoxides by visible-light photoredox catalysis on TiO. *Chemical Science*, **2015**, 6, 5000-5005	9.4	81
302	Conjugated polymer and drug co-encapsulated nanoparticles for chemo- and photo-thermal combination therapy with two-photon regulated fast drug release. *Nanoscale*, **2015**, 7, 3067-76	7.7	81
301	Spatially confined assembly of nanoparticles. *Accounts of Chemical Research*, **2014**, 47, 3009-17	24.3	81
300	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. *Advanced Materials*, **2016**, 28, 270-5	24	81
299	Synergistic photocatalytic aerobic oxidation of sulfides and amines on TiO under visible-light irradiation. *Chemical Science*, **2015**, 6, 1075-1082	9.4	79
298	Surprisingly long-range surface-enhanced Raman scattering (SERS) on Au-Ni multisegmented nanowires. *Angewandte Chemie - International Edition*, **2009**, 48, 4210-2	16.4	79
297	Hierarchically branched Fe2O3@TiO2 nanorod arrays for photoelectrochemical water splitting: facile synthesis and enhanced photoelectrochemical performance. *Nanoscale*, **2016**, 8, 11284-90	7.7	79
296	Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1500677	21.8	78
295	Artificial Skin Perception. *Advanced Materials*, **2021**, 33, e2003014	24	78
294	Lowering Charge Transfer Barrier of LiMnO via Nickel Surface Doping To Enhance Li Intercalation Kinetics at Subzero Temperatures. *Journal of the American Chemical Society*, **2019**, 141, 14038-14042	16.4	77
293	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. *Advanced Materials Interfaces*, **2014**, 1, 1300043	4.6	77
292	Sb2Te3 Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. *Chemistry of Materials*, **2010**, 22, 3086-3092	9.6	77
291	Ultra-Lightweight Resistive Switching Memory Devices Based on Silk Fibroin. *Small*, **2016**, 12, 3360-5	11	76
290	Biomechano-Interactive Materials and Interfaces. *Advanced Materials*, **2018**, 30, e1800572	24	75
289	Tuning the intensity of metal-enhanced fluorescence by engineering silver nanoparticle arrays. *Small*, **2010**, 6, 1038-43	11	75
288	Biomass-Derived Porous FeC/Tungsten Carbide/Graphitic Carbon Nanocomposite for Efficient Electrocatalysis of Oxygen Reduction. *ACS Applied Materials & Interfaces*, **2016**, 8, 32307-32316	9.5	73

287	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. *Advanced Materials*, **2015**, 27, 5593-8	24	73
286	High-performance organic single-crystal field-effect transistors of indolo[3,2-b]carbazole and their potential applications in gas controlled organic memory devices. *Advanced Materials*, **2011**, 23, 5075-80, 5074	24	72
285	Custom-Made Electrochemical Energy Storage Devices. *ACS Energy Letters*, **2019**, 4, 606-614	20.1	72
284	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. *Advanced Materials*, **2018**, 30, e1802200	24	72
283	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. *Angewandte Chemie - International Edition*, **2017**, 56, 14847-14852	16.4	71
282	Flexible colorimetric detection of mercuric ion by simply mixing nanoparticles and oligopeptides. *Small*, **2011**, 7, 1407-11	11	70
281	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. *Advanced Materials*, **2018**, 30, e1706395	24	69
280	Optical reading of contaminants in aqueous media based on gold nanoparticles. *Small*, **2014**, 10, 3461-79	11	69
279	Plasmonic Enhanced Optoelectronic Devices. *Plasmonics*, **2014**, 9, 859-866	2.4	68
278	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. *Advanced Functional Materials*, **2018**, 28, 1801683	15.6	67
277	Mechano-Based Transductive Sensing for Wearable Healthcare. *Small*, **2018**, 14, e1702933	11	66
276	Water-Resistant Conformal Hybrid Electrodes for Aquatic Endurable Electrocardiographic Monitoring. *Advanced Materials*, **2020**, 32, e2001496	24	66
275	DNA-directed growth of FePO4 nanostructures on carbon nanotubes to achieve nearly 100% theoretical capacity for lithium-ion batteries. *Energy and Environmental Science*, **2012**, 5, 6919	35.4	65
274	An Artificial Somatic Reflex Arc. *Advanced Materials*, **2020**, 32, e1905399	24	64
273	Flexible Integrated Electrical Cables Based on Biocomposites for Synchronous Energy Transmission and Storage. *Advanced Functional Materials*, **2016**, 26, 3472-3479	15.6	63
272	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. *Advanced Materials*, **2018**, 30, e1707285	24	62
271	Electrophoretic build-up of alternately multilayered films and micropatterns based on graphene sheets and nanoparticles and their applications in flexible supercapacitors. *Small*, **2012**, 8, 3201-8	11	61
270	Patterning of plasmonic nanoparticles into multiplexed one-dimensional arrays based on spatially modulated electrostatic potential. *ACS Nano*, **2011**, 5, 8288-94	16.7	61

269	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. *Chemical Research in Chinese Universities*, **2020**, 36, 622-630	2.2	60
268	Dielectric Polarization in Inverse Spinel-Structured Mg TiO Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. *Advanced Materials*, **2020**, 32, e2000496	24	59
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266	Bioengineered tunable memristor based on protein nanocage. *Small*, **2014**, 10, 277-83	11	59
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264	Scalable combustion synthesis of graphene-welded activated carbon for high-performance supercapacitors. *Chemical Engineering Journal*, **2021**, 414, 128781	14.7	58
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262	Synthesis of Anisotropic Concave Gold Nanocuboids with Distinctive Plasmonic Properties. *Chemistry of Materials*, **2013**, 25, 2470-2475	9.6	57
261	Bio-Inspired Mechanotactic Hybrids for Orchestrating Traction-Mediated Epithelial Migration. *Advanced Materials*, **2016**, 28, 3102-10	24	56
260	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. *Advanced Materials*, **2019**, 31, e1901360	24	56
259	Al(2)O(3) Surface Complexation for Photocatalytic Organic Transformations. *Journal of the American Chemical Society*, **2017**, 139, 269-276	16.4	55
258	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring **2020**, 2, 478-484		55
257	Mechanically Interlocked Hydrogel–Elastomer Hybrids for On-Skin Electronics. *Advanced Functional Materials*, **2020**, 30, 1909540	15.6	55
256	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. *Advanced Materials*, **2017**, 29, 1701780	24	55
255	Visible photoresponse of single-layer graphene decorated with TiO_2 nanoparticles. *Small*, **2013**, 9, 2076-81	11	55
254	An artificial sensory neuron with visual-haptic fusion. *Nature Communications*, **2020**, 11, 4602	17.4	55
253	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. *Advanced Materials*, **2020**, 32, e2004401	24	54
252	Thermal-Responsive Polymers for Enhancing Safety of Electrochemical Storage Devices. *Advanced Materials*, **2018**, 30, e1704347	24	54

251	A silk-based sealant with tough adhesion for instant hemostasis of bleeding tissues. *Nanoscale Horizons*, **2019**, 4, 1333-1341	10.8	54
250	Free-standing bimetallic nanorings and nanoring arrays made by on-wire lithography. *ACS Nano*, **2010**, 4, 7676-82	16.7	52
249	Induced chirality of binary aggregates of oppositely charged water-soluble porphyrins on DNA matrix. *Journal of Inorganic Biochemistry*, **2003**, 94, 106-13	4.2	52
248	Rational Design of Materials Interface for Efficient Capture of Circulating Tumor Cells. *Advanced Science*, **2015**, 2, 1500118	13.6	51
247	Low temperature synthesis of wurtzite zinc sulfide (ZnS) thin films by chemical spray pyrolysis. *Physical Chemistry Chemical Physics*, **2013**, 15, 6763-8	3.6	51
246	Disc-like 7, 14-dicyano-ovalene-3,4:10,11-bis(dicarboximide) as a solution-processible n-type semiconductor for air stable field-effect transistors. *Chemical Science*, **2012**, 3, 846-850	9.4	50
245	Alcohol-Mediated Resistance-Switching Behavior in Metal-Organic Framework-Based Electronic Devices. *Angewandte Chemie - International Edition*, **2016**, 55, 8884-8	16.4	50
244	A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. *Nanoscale*, **2015**, 7, 965-74	7.7	49
243	Colorimetric chemodosimeter based on diazonium-gold-nanoparticle complexes for sulfite ion detection in solution. *Small*, **2012**, 8, 3412-6	11	49
242	Hierarchical luminescence patterning based on multiscaled self-assembly. *Journal of the American Chemical Society*, **2006**, 128, 9592-3	16.4	49
241	A bioinspired stretchable membrane-based compliance sensor. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11314-11320	11.5	48
240	Towards active plasmonic response devices. *Nano Research*, **2015**, 8, 406-417	10	48
239	Plasmonic focusing in rod-sheath heteronanostructures. *ACS Nano*, **2009**, 3, 87-92	16.7	48
238	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. *Advanced Materials*, **2019**, 31, e1903130	24	47
237	Orthogonally engineering matrix topography and rigidity to regulate multicellular morphology. *Advanced Materials*, **2014**, 26, 5786-93	24	47
236	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. *Advanced Materials*, **2018**, 30, e1802516	24	47
235	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. *Nature Communications*, **2018**, 9, 3813	17.4	46
234	Prolonged Electron Lifetime in Ordered TiO2 Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. *Small*, **2016**, 12, 2291-9	11	45

233	Programmable Negative Differential Resistance Effects Based on Self-Assembled Au@PPy Core-Shell Nanoparticle Arrays. *Advanced Materials*, **2018**, 30, e1802731	24	45
232	Atomically flat, large-sized, two-dimensional organic nanocrystals. *Small*, **2013**, 9, 990-5	11	45
231	Bioinspired, Microstructured Silk Fibroin Adhesives for Flexible Skin Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 5601-5609	9.5	44
230	Approaching the Lithiation Limit of MoS While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 3521-3526	16.4	44
229	Direct coherent multi-ink printing of fabric supercapacitors. *Science Advances*, **2021**, 7,	14.3	44
228	Conjugated Polymer Nanodots as Ultrastable Long-Term Trackers to Understand Mesenchymal Stem Cell Therapy in Skin Regeneration. *Advanced Functional Materials*, **2015**, 25, 4263-4273	15.6	43
227	Free-standing one-dimensional plasmonic nanostructures. *Nanoscale*, **2012**, 4, 66-75	7.7	43
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