

Hongwei Zhu

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.

360
papers

24,014
citations

77
h-index

145
g-index

370
ext. papers

26,935
ext. citations

8.7
avg, IF

7.14
L-index

#	Paper	IF	Citations
360	Mechanical sensors based on two-dimensional materials: Sensing mechanisms, structural designs and wearable applications.. <i>IScience</i> , 2022 , 25, 103728	6.1	1
359	Self-powered SnSe photodetectors fabricated by ultrafast laser. <i>Nano Energy</i> , 2022 , 97, 107188	17.1	4
358	Recent Advances in New Materials for 6G Communications. <i>Advanced Electronic Materials</i> , 2022 , 8, 2100978	17.1	0
357	The q-ary antiprimitive BCH codes. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	3
356	Enhanced Catalytic Mechanism of Twin-Structured BiVO. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10610-10615	6.4	1
355	Highly Sensitive, Selective, Flexible and Scalable Room-Temperature NO Gas Sensor Based on Hollow SnO/ZnO Nanofibers. <i>Molecules</i> , 2021 , 26,	4.8	3
354	Self-Supporting Copper-Based Electrode by Electrospinning for Reduction of Carbon Dioxide to Methane. <i>Energy Technology</i> , 2021 , 9, 2100714	3.5	1
353	Recent progress in wearable tactile sensors combined with algorithms based on machine learning and signal processing. <i>APL Materials</i> , 2021 , 9, 030906	5.7	4
352	Nanocellulose-Graphene Hybrids: Advanced Functional Materials as Multifunctional Sensing Platform. <i>Nano-Micro Letters</i> , 2021 , 13, 94	19.5	7
351	Machine Learning for Transition-Metal-Based Hydrogen Generation Electrocatalysts. <i>ACS Catalysis</i> , 2021 , 11, 3930-3937	13.1	8
350	Research progress of surface-modified graphene-based materials for tribological applications. <i>Materials Research Express</i> , 2021 , 8, 042002	1.7	1
349	Nacre-Inspired, Liquid Metal-Based Ultrasensitive Electronic Skin by Spatially Regulated Cracking Strategy. <i>Advanced Functional Materials</i> , 2021 , 31, 2102359	15.6	21
348	Out-of-plane and in-plane ferroelectricity of atom-thick two-dimensional InSe. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
347	Patterning of graphene for highly sensitive strain sensing on various curved surfaces. <i>Nano Select</i> , 2021 , 2, 121-128	3.1	1
346	Hydrophobic ionic liquid-in-polymer composites for ultrafast, linear response and highly sensitive humidity sensing. <i>Nano Research</i> , 2021 , 14, 1202-1209	10	8
345	Recent advances in transition-metal-sulfide-based bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5320-5363	13	80
344	Graphene Oxide/Hexylamine Superlattice Field-Effect Biochemical Sensors. <i>Advanced Functional Materials</i> , 2021 , 31, 2010563	15.6	4

343	Edge-Rich Reduced Graphene Oxide Embedded in Silica-Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution.. <i>Small Methods</i> , 2021 , 5, e2100621	12.8	0
342	Degeneration of Key Structural Components Resulting in Ageing of Supercapacitors and the Related Chemical Ageing Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39379-39393	9.5	
341	Nanocellulose-Graphene Derivative Hybrids: Advanced Structure-Based Functionality from Top-down Synthesis to Bottom-up Assembly.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 7366-7401	4.1	2
340	Controllable preparation and microwave absorption properties of shape anisotropic Fe ₃ O ₄ nanobelts. <i>Journal of Materiomics</i> , 2021 , 7, 957-966	6.7	4
339	Recent progress in two-dimensional materials for terahertz protection. <i>Nanoscale Advances</i> , 2021 , 3, 1515-1531	5.1	4
338	Macro van der Waals p-n heterojunction based on SnSe and SnSe. <i>Nanotechnology</i> , 2020 , 31, 385203	3.4	4
337	Sustained and Controlled Release of Volatile Precursors for Chemical Vapor Deposition of Graphene at Atmospheric Pressure. <i>Chemistry - A European Journal</i> , 2020 , 26, 7463-7469	4.8	2
336	Enhancing Capacitance Performance of TiCT MXene as Electrode Materials of Supercapacitor: From Controlled Preparation to Composite Structure Construction. <i>Nano-Micro Letters</i> , 2020 , 12, 77	19.5	60
335	Shape anisotropic Fe ₃ O ₄ nanotubes for efficient microwave absorption. <i>Nano Research</i> , 2020 , 13, 621-629		40
334	Large area high-performance bismuth vanadate photoanode for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3845-3850	13	10
333	A programmable, gradient-composition strategy producing synergistic and ultrahigh sensitivity amplification for flexible pressure sensing. <i>Nano Energy</i> , 2020 , 74, 104847	17.1	13
332	Cation- π Interactions in Graphene-Containing Systems for Water Treatment and Beyond. <i>Advanced Materials</i> , 2020 , 32, e1905756	24	43
331	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020 , 72, 104742	17.1	30
330	Cross-Linked Double Network Graphene Oxide/Polymer Composites for Efficient Coagulation-Flocculation. <i>Global Challenges</i> , 2020 , 4, 1900051	4.3	6
329	Excellent stability of molecular catalyst/BiVO ₄ photoanode in borate buffer solution. <i>Nano Energy</i> , 2020 , 70, 104487	17.1	14
328	Transparent Electrothermal Film Defoggers and Antiicing Coatings based on Wrinkled Graphene. <i>Small</i> , 2020 , 16, e1905945	11	12
327	The application feasibility of graphene oxide membranes for pressure-driven desalination in a dead-end flow system. <i>Desalination</i> , 2020 , 477, 114271	10.3	11
326	Morphology-controlled Tantalum Diselenide Structures as Self-optimizing Hydrogen Evolution Catalysts. <i>Energy and Environmental Materials</i> , 2020 , 3, 12-18	13	7

325	Self-Regulating Cross-Linked Graphene Oxide Membranes with Stable Retention Properties over a Wide pH Range. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901535	4.6	8
324	Green Preparation of Aqueous Graphene Dispersion and Study on Its Dispersion Stability. <i>Materials</i> , 2020 , 13,	3.5	4
323	High-quality bilayer graphene grown on softened copper foils by atmospheric pressure chemical vapor deposition. <i>Science China Materials</i> , 2020 , 63, 1973-1982	7.1	5
322	Enhanced ionic photocurrent generation through a homogeneous graphene derivative composite membrane. <i>Chemical Communications</i> , 2020 , 56, 9819-9822	5.8	1
321	Nanoporous silver using pulsed laser deposition for high-performance oxygen reduction reaction and hydrogen peroxide sensing. <i>Nanoscale</i> , 2020 , 12, 19413-19419	7.7	7
320	High resolution non-invasive intraocular pressure monitoring by use of graphene woven fabrics on contact lens. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 39	7.7	23
319	One-step synthesis of a hierarchical self-supported WS ₂ film for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22405-22411	13	25
318	Ultimate Photo-Thermo-Acoustic Efficiency of Graphene Aerogels. <i>Scientific Reports</i> , 2019 , 9, 13386	4.9	6
317	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional InSe nanoflakes. <i>Applied Physics Letters</i> , 2019 , 114, 252903	3.4	19
316	Influence of low-dimension carbon-based electrodes on the performance of SnO nanofiber gas sensors at room temperature. <i>Nanotechnology</i> , 2019 , 30, 345503	3.4	9
315	High flux nanofiltration membranes prepared with a graphene oxide homo-structure. <i>Journal of Membrane Science</i> , 2019 , 585, 29-37	9.6	34
314	A non-covalent cation- π interaction-based humidity-driven electric nanogenerator prepared with salt decorated wrinkled graphene. <i>Nano Energy</i> , 2019 , 62, 189-196	17.1	14
313	Graphene Oxide Promoted Cadmium Uptake by Rice in Soil. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10283-10292	8.3	17
312	Multifunctional sensing platform with pulsed-laser-deposited silver nanoporous structures. <i>Sensors and Actuators A: Physical</i> , 2019 , 293, 136-144	3.9	2
311	Large scale self-assembly of SnSe nanosheets prepared by the hot-injection method for photodetector and capacitor applications. <i>Materials Today Energy</i> , 2019 , 12, 418-425	7	12
310	High-Response Room-Temperature NO Sensor and Ultrafast Humidity Sensor Based on SnO with Rich Oxygen Vacancy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13441-13449	9.5	61
309	Scalable preparation of hierarchical porous activated carbon/graphene composites for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10058-10066	13	17
308	Temperature-resistant and flexible supercapacitors based on 10-inch wafer-scale nanocarbon films. <i>Science China Materials</i> , 2019 , 62, 947-954	7.1	14

307	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Cross-Linked Graphene/Polymer Composite. <i>Small</i> , 2019 , 15, e1900848	11	47
306	Graphene oxide quantum dots embedded polysulfone membranes with enhanced hydrophilicity, permeability and antifouling performance. <i>Science China Materials</i> , 2019 , 62, 1177-1187	7.1	26
305	Recent advances in friction and lubrication of graphene and other 2D materials: Mechanisms and applications. <i>Friction</i> , 2019 , 7, 199-216	5.6	120
304	Physically Coating Nanofiltration Membranes with Graphene Oxide Quantum Dots for Simultaneously Improved Water Permeability and Salt/Dye Rejection. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801742	4.6	23
303	A wrinkled graphene and ionic liquid based electric generator for the sea energy harvesting. <i>2D Materials</i> , 2019 , 6, 045040	5.9	4
302	Research Progress of the Liquid-Phase Exfoliation and Stable Dispersion Mechanism and Method of Graphene. <i>Frontiers in Materials</i> , 2019 , 6,	4	15
301	Highly Efficient NiFe Nanoparticle Decorated Si Photoanode for Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2019 , 31, 171-178	9.6	21
300	Hierarchical-structure-dependent high ductility of electrospun polyoxymethylene nanofibers. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47086	2.9	4
299	Formation of Uniform Water Microdroplets on Wrinkled Graphene for Ultrafast Humidity Sensing. <i>Small</i> , 2018 , 14, e1703848	11	70
298	A Bubble-Derived Strategy to Prepare Multiple Graphene-Based Porous Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1705879	15.6	59
297	Structural Characterizations of Graphene 2018 , 13-26		1
296	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 663-672	5.8	19
295	Graphene-based membranes for organic solvent nanofiltration. <i>Science China Materials</i> , 2018 , 61, 429-431	7.1	6
294	Hierarchically Mesostructured Aluminum Current Collector for Enhancing the Performance of Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16572-16580	9.5	20
293	Long-term electrical conductivity stability of graphene under uncontrolled ambient conditions. <i>Carbon</i> , 2018 , 133, 410-415	10.4	4
292	Direct growth of high crystallinity graphene from water-soluble polymer powders. <i>2D Materials</i> , 2018 , 5, 035001	5.9	6
291	Chloride-intercalated continuous chemical vapor deposited graphene film with discrete adlayers. <i>Nano Research</i> , 2018 , 11, 440-448	10	7
290	Graphene-Based Sensors 2018 , 157-174		10

289	Graphene oxide as a water transporter promoting germination of plants in soil. <i>Nano Research</i> , 2018 , 11, 1928-1937	10	60
288	Graphene oxide-in-polymer nanofiltration membranes with enhanced permeability by interfacial polymerization. <i>Journal of Membrane Science</i> , 2018 , 564, 813-819	9.6	77
287	Research Progress in Application of 2D Materials in Liquid-Phase Lubrication System. <i>Materials</i> , 2018 , 11,	3.5	24
286	A porous graphene/polydimethylsiloxane composite by chemical foaming for simultaneous tensile and compressive strain sensing. <i>FlatChem</i> , 2018 , 10, 1-7	5.1	11
285	All-Carbon Electrodes for Flexible Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 152	2.6	17
284	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. <i>Chemical Society Reviews</i> , 2018 , 47, 4981-5037	58.5	226
283	Strong Adhesion of Graphene Oxide Coating on Polymer Separation Membranes. <i>Langmuir</i> , 2018 , 34, 10569-10579	4	11
282	Graphene: Synthetic Multifunctional Graphene Composites with Reshaping and Self-Healing Features via a Facile Biomineralization-Inspired Process (Adv. Mater. 34/2018). <i>Advanced Materials</i> , 2018 , 30, 1870253	24	1
281	Graphene Foams: A Bubble-Derived Strategy to Prepare Multiple Graphene-Based Porous Materials (Adv. Funct. Mater. 23/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870161	15.6	1
280	Graphene oxide as an antimicrobial agent can extend the vase life of cut flowers. <i>Nano Research</i> , 2018 , 11, 6010-6022	10	14
279	Potential Applications and Perspectives 2018 , 233-249		
278	Heterojunction solar cells based on graphene woven fabrics and silicon. <i>Journal of Materiomics</i> , 2018 , 4, 135-138	6.7	3
277	Facile Fabrication of Unimpeded and Stable Graphene Oxide Coating on Reverse Osmosis Membrane for Dual-Functional Protection. <i>ChemistrySelect</i> , 2018 , 3, 12122-12130	1.8	2
276	Ultrasensitive and Stretchable Strain Sensors Based on Mazelike Vertical Graphene Network. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36312-36322	9.5	77
275	The Interaction between Quantum Dots and Graphene: The Applications in Graphene-Based Solar Cells and Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1804712	15.6	50
274	Twin Structure in BiVO ₄ Photoanodes Boosting Water Oxidation Performance through Enhanced Charge Separation and Transport. <i>Advanced Energy Materials</i> , 2018 , 8, 1802198	21.8	43
273	In situ electrodeposition of polypyrrole onto TaSe nanobelts quasi-arrays for high-capacitance supercapacitor. <i>Nanoscale</i> , 2018 , 10, 17341-17346	7.7	17
272	Synthetic Multifunctional Graphene Composites with Reshaping and Self-Healing Features via a Facile Biomineralization-Inspired Process. <i>Advanced Materials</i> , 2018 , 30, e1803004	24	45

271	Water-driven actuation of <i>Ornithoctonus huwena</i> spider silk fibers. <i>Applied Physics Letters</i> , 2017 , 110, 053103	3.4	6
270	Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance. <i>Materials Science and Engineering Reports</i> , 2017 , 115, 1-37	30.9	405
269	Single-layer nanosheets with exceptionally high and anisotropic hydroxyl ion conductivity. <i>Science Advances</i> , 2017 , 3, e1602629	14.3	105
268	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017 , 4, 021306	17.3	368
267	Self-Assembled Graphene Film as Low Friction Solid Lubricant in Macroscale Contact. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21554-21562	9.5	73
266	Poly (ethylene imine)-modulated transport behaviors of graphene field effect transistors with double Dirac points. <i>Journal of Applied Physics</i> , 2017 , 121, 134305	2.5	9
265	Simultaneous High Sensitivity Sensing of Temperature and Humidity with Graphene Woven Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30171-30176	9.5	83
264	Integration of graphene sensor with electrochromic device on modulus-gradient polymer for instantaneous strain visualization. <i>2D Materials</i> , 2017 , 4, 035020	5.9	17
263	Rapid Liquid Recognition and Quality Inspection with Graphene Test Papers. <i>Global Challenges</i> , 2017 , 1, 1700037	4.3	12
262	Flexible, temperature-tolerant supercapacitor based on hybrid carbon film electrodes. <i>Nano Energy</i> , 2017 , 40, 224-232	17.1	78
261	Scalable Low-Band-Gap SbSe Thin-Film Photocathodes for Efficient Visible-Near-Infrared Solar Hydrogen Evolution. <i>ACS Nano</i> , 2017 , 11, 12753-12763	16.7	98
260	Graphene oxide-embedded polyamide nanofiltration membranes for selective ion separation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25632-25640	13	62
259	Full-Inorganic Thin Film Solar Cell and Photodetector Based on [Graphene-on-Antimony Sulfide] Heterostructure. <i>Solar Rrl</i> , 2017 , 1, 1700135	7.1	15
258	Graphene: Fundamental research and potential applications. <i>FlatChem</i> , 2017 , 4, 20-32	5.1	86
257	A Wearable and Highly Sensitive Graphene Strain Sensor for Precise Home-Based Pulse Wave Monitoring. <i>ACS Sensors</i> , 2017 , 2, 967-974	9.2	194
256	The physics and chemistry of graphene-on-surfaces. <i>Chemical Society Reviews</i> , 2017 , 46, 4417-4449	58.5	247
255	Sponge-like nickel phosphide-carbon nanotube hybrid electrodes for efficient hydrogen evolution over a wide pH range. <i>Nano Research</i> , 2017 , 10, 415-425	10	52
254	Full-Inorganic Thin Film Solar Cell and Photodetector Based on [Graphene-on-Antimony Sulfide] Heterostructure (Solar RRL 120017). <i>Solar Rrl</i> , 2017 , 1, 1770146	7.1	1

253	A Flexible Platform Containing Graphene Mesoporous Structure and Carbon Nanotube for Hydrogen Evolution. <i>Advanced Science</i> , 2016 , 3, 1600208	13.6	17
252	Cobalt and nickel selenide nanowalls anchored on graphene as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14789-14795	13	115
251	Solution-processed CuSbS ₂ thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. <i>Nano Energy</i> , 2016 , 28, 135-142	17.1	49
250	Highly Sensitive, Wearable, Durable Strain Sensors and Stretchable Conductors Using Graphene/Silicon Rubber Composites. <i>Advanced Functional Materials</i> , 2016 , 26, 7614-7625	15.6	272
249	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. <i>Chemical Science</i> , 2016 , 7, 6988-6994	9.4	53
248	Cycling-Stable Cathodes: Hydroxyapatite/Mesoporous Graphene/Single-Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine (Adv. Funct. Mater. 44/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7946-7946	15.6	
247	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. <i>Scientific Reports</i> , 2016 , 6, 18930	4.9	50
246	Strain Sensing: Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors (Adv. Funct. Mater. 13/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2038-2038	15.6	2
245	Hybrid Tunnel Junction-Graphene Transparent Conductive Electrodes for Nitride Lateral Light Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1176-83	9.5	10
244	Reverse osmosis desalination of chitosan cross-linked graphene oxide/titania hybrid lamellar membranes. <i>Nanotechnology</i> , 2016 , 27, 274002	3.4	10
243	Large-Area Ultrathin Graphene Films by Single-Step Marangoni Self-Assembly for Highly Sensitive Strain Sensing Application. <i>Advanced Functional Materials</i> , 2016 , 26, 1322-1329	15.6	270
242	Recent Developments in Graphene-Based Membranes: Structure, Mass-Transport Mechanism and Potential Applications. <i>Advanced Materials</i> , 2016 , 28, 2287-310	24	433
241	Spindle-like hierarchical carbon structure grown from polyhydroxyalkanoate/ferrocene/chloroform precursor. <i>Carbon</i> , 2016 , 103, 346-351	10.4	3
240	Structural engineering of gold thin films with channel cracks for ultrasensitive strain sensing. <i>Materials Horizons</i> , 2016 , 3, 248-255	14.4	177
239	NO ₂ -induced performance enhancement of PEDOT:PSS/Si hybrid solar cells with a high efficiency of 13.44. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7184-9	3.6	11
238	Self-deposition of Pt nanoparticles on graphene woven fabrics for enhanced hybrid Schottky junctions and photoelectrochemical solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1992-7	3.6	18
237	High Detectivity Graphene-Silicon Heterojunction Photodetector. <i>Small</i> , 2016 , 12, 595-601	11	285
236	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2016 , 26, 2078-2084	15.6	276

235	Schottky diode characteristics and 1/f noise of high sensitivity reduced graphene oxide/Si heterojunction photodetector. <i>Journal of Applied Physics</i> , 2016 , 119, 124303	2.5	15
234	The graphene-semiconductor Schottky junction. <i>Physics Today</i> , 2016 , 69, 46-51	0.9	56
233	Strain Sensors: Large-Area Ultrathin Graphene Films by Single-Step Marangoni Self-Assembly for Highly Sensitive Strain Sensing Application (Adv. Funct. Mater. 9/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 1488-1488	15.6	1
232	Graphene water transfer printing for 3D surface 2016 ,		3
231	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11179-87	9.5	54
230	Photo-Promoted Platinum Nanoparticles Decorated MoS ₂ @Graphene Woven Fabric Catalyst for Efficient Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10866-73	9.5	63
229	Highly selective charge-guided ion transport through a hybrid membrane consisting of anionic graphene oxide and cationic hydroxide nanosheet superlattice units. <i>NPG Asia Materials</i> , 2016 , 8, e259-e259	10.3	42
228	Foldable and electrically stable graphene film resistors prepared by vacuum filtration for flexible electronics. <i>Surface and Coatings Technology</i> , 2016 , 299, 22-28	4.4	22
227	Hydroxyapatite/Mesoporous Graphene/Single-Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine. <i>Advanced Functional Materials</i> , 2016 , 26, 7965-7974	15.6	30
226	Polymer-coated graphene films as anti-reflective transparent electrodes for Schottky junction solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13795-13802	13	34
225	In-situ synthesis of carbon nanotube/graphene composite sponge and its application as compressible supercapacitor electrode. <i>Electrochimica Acta</i> , 2015 , 157, 134-141	6.7	64
224	Ultrafast liquid water transport through graphene-based nanochannels measured by isotope labelling. <i>Chemical Communications</i> , 2015 , 51, 3251-4	5.8	60
223	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. <i>NPG Asia Materials</i> , 2015 , 7, e162-e162	10.3	78
222	Protecting carbon steel from corrosion by laser in situ grown graphene films. <i>Carbon</i> , 2015 , 94, 326-334	10.4	58
221	Two-dimensional MoS ₂ : Properties, preparation, and applications. <i>Journal of Materials</i> , 2015 , 1, 33-44	6.7	396
220	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. <i>Nanoscale</i> , 2015 , 7, 7318-22	7.7	154
219	Role of hydrogen in the chemical vapor deposition growth of MoS ₂ atomic layers. <i>Nanoscale</i> , 2015 , 7, 8398-404	7.7	49
218	TiO ₂ enhanced ultraviolet detection based on a graphene/Si Schottky diode. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8133-8138	13	38

217	Laser Controllable Growth of Graphene via Ni-Cu Alloy Composition Modulation. <i>Lasers in Manufacturing and Materials Processing</i> , 2015 , 2, 219-230	2.1	4
216	Tactile Sensing System Based on Arrays of Graphene Woven Microfabrics: Electromechanical Behavior and Electronic Skin Application. <i>ACS Nano</i> , 2015 , 9, 10867-75	16.7	220
215	Reduced graphene oxide/hierarchical flower-like zinc oxide hybrid films for room temperature formaldehyde detection. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1290-1298	8.5	58
214	Cellulose-Templated Graphene Monoliths with Anisotropic Mechanical, Thermal, and Electrical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19145-52	9.5	34
213	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. <i>Carbon</i> , 2015 , 84, 138-145	10.4	46
212	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. <i>Materials Letters</i> , 2015 , 140, 43-47	3.3	39
211	Anti-reflection graphene coating on metal surface. <i>Surface and Coatings Technology</i> , 2015 , 261, 327-330	4.4	16
210	Solar Cells: Carbon/Silicon Heterojunction Solar Cells: State of the Art and Prospects (Adv. Mater. 42/2015). <i>Advanced Materials</i> , 2015 , 27, 6767-6767	24	6
209	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. <i>Scientific Reports</i> , 2015 , 5, 11662	4.9	78
208	Galvanism of continuous ionic liquid flow over graphene grids. <i>Applied Physics Letters</i> , 2015 , 107, 081605	3.4	28
207	Carbon Nanotubes and Graphene for Silicon-Based Solar Cells 2015 , 233-248		1
206	Carbon/Silicon Heterojunction Solar Cells: State of the Art and Prospects. <i>Advanced Materials</i> , 2015 , 27, 6549-74	24	144
205	Highly conductive, twistable and bendable polypyrrole/carbon nanotube fiber for efficient supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 22015-22021	3.7	52
204	Dynamically stretchable supercapacitors based on graphene woven fabric electrodes. <i>Nano Energy</i> , 2015 , 15, 83-91	17.1	69
203	Bio-inspired mechanics of highly sensitive stretchable graphene strain sensors. <i>Applied Physics Letters</i> , 2015 , 106, 171903	3.4	29
202	Efficient photovoltaic conversion of graphene/carbon nanotube hybrid films grown from solid precursors. <i>2D Materials</i> , 2015 , 2, 034003	5.9	27
201	Flow-induced voltage generation in graphene network. <i>Nano Research</i> , 2015 , 8, 2467-2473	10	25
200	All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. <i>Nanotechnology</i> , 2015 , 26, 045401	3.4	11

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17	Preparation of highly pure double-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1340		67
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