Yongsheng Chen

List of Publications by Year
in descending order

375	65,150	993 114	849 244
papers	citations	h-index	g-index

383	383	383	55161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of Solution-Processed Reduced Graphene Oxide Films as Transparent Conductors. ACS Nano, 2008, 2, 463-470.	7.3	2,955
2	Solution Properties of Single-Walled Carbon Nanotubes. , 1998, 282, 95-98.		2,352
3	Supercapacitor Devices Based on Graphene Materials. Journal of Physical Chemistry C, 2009, 113, 13103-13107.	1.5	2,295
4	Organic and solution-processed tandem solar cells with 17.3% efficiency. Science, 2018, 361, 1094-1098.	6.0	2,262
5	Broadband and Tunable Highâ€Performance Microwave Absorption of an Ultralight and Highly Compressible Graphene Foam. Advanced Materials, 2015, 27, 2049-2053.	11.1	1,598
6	Molecularâ€Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. Advanced Functional Materials, 2009, 19, 2297-2302.	7.8	1,481
7	Mechanism of Photogenerated Reactive Oxygen Species and Correlation with the Antibacterial Properties of Engineered Metal-Oxide Nanoparticles. ACS Nano, 2012, 6, 5164-5173.	7.3	1,282
8	An Overview of the Applications of Grapheneâ€Based Materials in Supercapacitors. Small, 2012, 8, 1805-1834.	5.2	1,210
9	Electromagnetic interference shielding of graphene/epoxy composites. Carbon, 2009, 47, 922-925.	5.4	1,199
10	Electromagnetic Interference (EMI) Shielding of Single-Walled Carbon Nanotube Epoxy Composites. Nano Letters, 2006, 6, 1141-1145.	4.5	1,106
11	A Graphene Hybrid Material Covalently Functionalized with Porphyrin: Synthesis and Optical Limiting Property. Advanced Materials, 2009, 21, 1275-1279.	11.1	1,007
12	Superparamagnetic graphene oxideâ€“Fe3O4 nanoparticles hybrid for controlled targeted drug carriers. Journal of Materials Chemistry, 2009, 19, 2710.	6.7	963
13	Two-Dimensional Graphene Bridges Enhanced Photoinduced Charge Transport in Dye-Sensitized Solar Cells. ACS Nano, 2010, 4, 887-894.	7.3	925
14	High-Efficiency Loading and Controlled Release of Doxorubicin Hydrochloride on Graphene Oxide. Journal of Physical Chemistry C, 2008, 112, 17554-17558.	1.5	909
15	Organic Light-Emitting Diodes on Solution-Processed Graphene Transparent Electrodes. ACS Nano, 2010, 4, 43-48.	7.3	908
16	Nitrogenâ€Doped Mesoporous Carbon Promoted Chemical Adsorption of Sulfur and Fabrication of Highâ€Arealâ€Capacity Sulfur Cathode with Exceptional Cycling Stability for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2014, 24, 1243-1250.	7.8	904
17	A high-performance supercapacitor-battery hybrid energy storage device based on graphene-enhanced electrode materials with ultrahigh energy density. Energy and Environmental Science, 2013, 6, 1623.	15.6	875
18	Organic solar cells with solution-processed graphene transparent electrodes. Applied Physics Letters, 2008, 92, .	1.5	856

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19	Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. Advanced Materials, 2008, 20, 3924-3930.	11.1	805
20	A Series of Simple Oligomer-like Small Molecules Based on Oligothiophenes for Solution-Processed Solar Cells with High Efficiency. Journal of the American Chemical Society, 2015, 137, 3886-3893.	6.6	788
21	Small-molecule solar cells with efficiency over 9%. Nature Photonics, 2015, 9, 35-41.	15.6	769
22	Solution-Processed and High-Performance Organic Solar Cells Using Small Molecules with a Benzodithiophene Unit. Journal of the American Chemical Society, 2013, 135, 8484-8487.	6.6	675
23	Solution-Processed Organic Solar Cells Based on Dialkylthiol-Substituted Benzodithiophene Unit with Efficiency near 10%. Journal of the American Chemical Society, 2014, 136, 15529-15532.	6.6	670
24	Reflection and absorption contributions to the electromagnetic interference shielding of single-walled carbon nanotube/polyurethane composites. Carbon, 2007, 45, 821-827.	5.4	665
25	High Performance Photovoltaic Applications Using Solution-Processed Small Molecules. Accounts of Chemical Research, 2013, 46, 2645-2655.	7.6	624
26	Silver Nanowire Percolation Network Soldered with Graphene Oxide at Room Temperature and Its Application for Fully Stretchable Polymer Light-Emitting Diodes. ACS Nano, 2014, 8, 1590-1600.	7.3	599
27	Room-Temperature Ferromagnetism of Graphene. Nano Letters, 2009, 9, 220-224.	4.5	595
28	Electrically, Chemically, and Photonically Powered Torsional and Tensile Actuation of Hybrid Carbon Nanotube Yarn Muscles. Science, 2012, 338, 928-932.	6.0	585
29	Porous 3D graphene-based bulk materials with exceptional high surface area and excellent conductivity for supercapacitors. Scientific Reports, 2013, 3, 1408.	1.6	582
30	Small Molecules Based on Benzo[1,2-b:4,5-bâ€²]dithiophene Unit for High-Performance Solution-Processed Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 16345-16351.	6.6	563
31	The influence of single-walled carbon nanotube structure on the electromagnetic interference shielding efficiency of its epoxy composites. Carbon, 2007, 45, 1614-1621.	5.4	524
32	Stability of commercial metal oxide nanoparticles in water. Water Research, 2008, 42, 2204-2212.	5.3	519
33	Graphene-Based Standalone Solar Energy Converter for Water Desalination and Purification. ACS Nano, 2018, 12, 829-835.	7.3	519
34	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. Nature Photonics, 2017, 11, 85-90.	15.6	510
35	Multi-functionalized graphene oxide based anticancer drug-carrier with dual-targeting function and pH-sensitivity. Journal of Materials Chemistry, 2011, 21, 3448-3454.	6.7	496
36	Polymer Photovoltaic Cells Based on Solutionâ€Processable Graphene and P3HT. Advanced Functional Materials, 2009, 19, 894-904.	7.8	470

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37	Small-Molecule Acceptor Based on the Heptacyclic Benzodi(cyclopentadithiophene) Unit for Highly Efficient Nonfullerene Organic Solar Cells. Journal of the American Chemical Society, 2017, 139, 4929-4934.	6.6	459
38	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poissonâ€™s ratio. Nature Communications, 2015, 6, 6141.	5.8	458
39	Grapheneâ€Based Materials for Lithiumâ€Ion Hybrid Supercapacitors. Advanced Materials, 2015, 27, 5296-5308.	11.1	424
40	Modeling the Primary Size Effects of Citrate-Coated Silver Nanoparticles on Their Ion Release Kinetics. Environmental Science & Technology, 2011, 45, 4422-4428.	4.6	418
41	Size-controlled synthesis of graphene oxide sheets on a large scale using chemical exfoliation. Carbon, 2009, 47, 3365-3368.	5.4	414
42	Composition and structure control of ultralight graphene foam for high-performance microwave absorption. Carbon, 2016, 105, 438-447.	5.4	400
43	Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. Nano Research, 2011, 4, 675-684.	5.8	397
44	Two-Dimensional Ruddlesdenâ€“Popper Perovskite with Nanorod-like Morphology for Solar Cells with Efficiency Exceeding 15%. Journal of the American Chemical Society, 2018, 140, 11639-11646.	6.6	397
45	Flexible and Transparent Electrothermal Film Heaters Based on Graphene Materials. Small, 2011, 7, 3186-3192.	5.2	371
46	Sulfur-Infiltrated Graphene-Based Layered Porous Carbon Cathodes with High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2014, 8, 5208-5215.	7.3	368
47	A Highâ€Performance Graphene Oxideâ€Doped Ion Gel as Gel Polymer Electrolyte for Allâ€Solidâ€State Supercapacitor Applications. Advanced Functional Materials, 2013, 23, 3353-3360.	7.8	356
48	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 9921-9927.	1.5	355
49	Preventing Graphene Sheets from Restacking for High-Capacitance Performance. Journal of Physical Chemistry C, 2011, 115, 23192-23197.	1.5	349
50	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
51	Oneâ€Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of Î±â€Fe₂O₃/Graphene Composites with Enhanced Photocatalytic Activity. Advanced Functional Materials, 2014, 24, 5719-5727.	7.8	331
52	Acceptorâ€“donorâ€“acceptor type molecules for high performance organic photovoltaics â€“ chemistry and mechanism. Chemical Society Reviews, 2020, 49, 2828-2842.	18.7	326
53	Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. Journal of Physical Chemistry C, 2007, 111, 13696-13700.	1.5	324
54	A hybrid material of graphene and poly (3,4-ethyldioxythiophene) with high conductivity, flexibility, and transparency. Nano Research, 2009, 2, 343-348.	5.8	320

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55	Bioinspired Ultrasensitive and Stretchable MXene-Based Strain Sensor via Nacre-Mimetic Microscale â€œBrick-and-Mortarâ€•Architecture. ACS Nano, 2019, 13, 649-659.	7.3	320
56	Focusing on Energy and Optoelectronic Applications: A Journey for Graphene and Graphene Oxide at Large Scale. Accounts of Chemical Research, 2012, 45, 598-607.	7.6	310
57	Nonlinear optical properties of graphene oxide in nanosecond and picosecond regimes. Applied Physics Letters, 2009, 94, .	1.5	304
58	Solution Processable Rhodanineâ€Based Small Molecule Organic Photovoltaic Cells with a Power Conversion Efficiency of 6.1%. Advanced Energy Materials, 2012, 2, 74-77.	10.2	303
59	Delivery of Telomerase Reverse Transcriptase Small Interfering RNA in Complex with Positively Charged Single-Walled Carbon Nanotubes Suppresses Tumor Growth. Clinical Cancer Research, 2006, 12, 4933-4939.	3.2	300
60	Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. Carbon, 2017, 124, 506-514.	5.4	297
61	Controlling the Effective Surface Area and Pore Size Distribution of sp² Carbon Materials and Their Impact on the Capacitance Performance of These Materials. Journal of the American Chemical Society, 2013, 135, 5921-5929.	6.6	291
62	A New Nonfullerene Electron Acceptor with a Ladder Type Backbone for Highâ€Performance Organic Solar Cells. Advanced Materials, 2017, 29, 1604964.	11.1	289
63	Multichannel and Repeatable Selfâ€Healing of Mechanical Enhanced Grapheneâ€Thermoplastic Polyurethane Composites. Advanced Materials, 2013, 25, 2224-2228.	11.1	280
64	Three-dimensional graphene networks: synthesis, properties and applications. National Science Review, 2015, 2, 40-53.	4.6	276
65	Highâ€Performance Solar Cells using a Solutionâ€Processed Small Molecule Containing Benzodithiophene Unit. Advanced Materials, 2011, 23, 5387-5391.	11.1	271
66	Efficient and large-scale synthesis of few-layered graphene using an arc-discharge method and conductivity studies of the resulting films. Nano Research, 2010, 3, 661-669.	5.8	269
67	Carbon science in 2016: Status, challenges and perspectives. Carbon, 2016, 98, 708-732.	5.4	261
68	Flexible organic photovoltaics based on water-processed silver nanowire electrodes. Nature Electronics, 2019, 2, 513-520.	13.1	255
69	Plasmonic Ti₃C₂T_x MXene Enables Highly Efficient Photothermal Conversion for Healable and Transparent Wearable Device. ACS Nano, 2019, 13, 8124-8134.	7.3	247
70	Photogeneration of Reactive Oxygen Species on Uncoated Silver, Gold, Nickel, and Silicon Nanoparticles and Their Antibacterial Effects. Langmuir, 2013, 29, 4647-4651.	1.6	244
71	Graphene â€“ A Promising Material for Organic Photovoltaic Cells. Advanced Materials, 2011, 23, 5342-5358.	11.1	242
72	Spinâ€Coated Small Molecules for High Performance Solar Cells. Advanced Energy Materials, 2011, 1, 771-775.	10.2	233

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73	Ultraâ€Broadband Wideâ€Angle Terahertz Absorption Properties of 3D Graphene Foam. Advanced Functional Materials, 2018, 28, 1704363.	7.8	223
74	A Rapid and Efficient Selfâ€Healing Thermoâ€Reversible Elastomer Crosslinked with Graphene Oxide. Advanced Materials, 2013, 25, 5785-5790.	11.1	221
75	A Hierarchical Silverâ€Nanowireâ€“Graphene Host Enabling Ultrahigh Rates and Superior Longâ€Term Cycling of Lithiumâ€Metal Composite Anodes. Advanced Materials, 2018, 30, e1804165.	11.1	221
76	Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. Carbon, 2009, 47, 3113-3121.	5.4	218
77	A MXeneâ€Based Hierarchical Design Enabling Highly Efficient and Stable Solarâ€Water Desalination with Good Salt Resistance. Advanced Functional Materials, 2020, 30, 2007110.	7.8	215
78	Fineâ€Tuning the Energy Levels of a Nonfullerene Smallâ€Molecule Acceptor to Achieve a High Shortâ€Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. Advanced Materials, 2018, 30, 1704904.	11.1	214
79	Covalently porphyrin-functionalized single-walled carbon nanotubes: a novel photoactive and optical limiting donorâ€“acceptor nanohybrid. Journal of Materials Chemistry, 2006, 16, 3021-3030.	6.7	211
80	A Planar Small Molecule with Dithienosilole Core for High Efficiency Solution-Processed Organic Photovoltaic Cells. Chemistry of Materials, 2011, 23, 4666-4668.	3.2	210
81	A chlorinated low-bandgap small-molecule acceptor for organic solar cells with 14.1% efficiency and low energy loss. Science China Chemistry, 2018, 61, 1307-1313.	4.2	210
82	Highly Efficient and Stable Solar Cells Based on Crystalline Oriented 2D/3D Hybrid Perovskite. Advanced Materials, 2019, 31, e1901242.	11.1	210
83	Grapheneâ€Based Materials toward Microwave and Terahertz Absorbing Stealth Technologies. Advanced Optical Materials, 2019, 7, 1801318.	3.6	208
84	Graphene-based Li-ion hybrid supercapacitors with ultrahigh performance. Nano Research, 2013, 6, 581-592.	5.8	204
85	Organic photovoltaic cells based on an acceptor of soluble graphene. Applied Physics Letters, 2008, 92, .	1.5	196
86	Highâ€Performance Supercapacitor Electrode Materials Prepared from Various Pollens. Small, 2013, 9, 1342-1347.	5.2	196
87	Macroscopic and direct light propulsion of bulk graphene material. Nature Photonics, 2015, 9, 471-476.	15.6	192
88	Aâ€“Dâ€“A small molecules for solution-processed organic photovoltaic cells. Chemical Communications, 2015, 51, 4936-4950.	2.2	188
89	Hydrous RuO₂â€Decorated MXene Coordinating with Silver Nanowire Inks Enabling Fully Printed Microâ€Supercapacitors with Extraordinary Volumetric Performance. Advanced Energy Materials, 2019, 9, 1803987.	10.2	188
90	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11%. Advanced Materials, 2018, 30, e1707508.	11.1	184

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91	Electrical Power From Nanotube and Graphene Electrochemical Thermal Energy Harvesters. Advanced Functional Materials, 2012, 22, 477-489.	7.8	180
92	A perylene diimide (PDI)-based small molecule with tetrahedral configuration as a non-fullerene acceptor for organic solar cells. Journal of Materials Chemistry C, 2015, 3, 4698-4705.	2.7	180
93	Synthesis and supercapacitor performance studies of N-doped graphene materials using o-phenylenediamine as the double-N precursor. Carbon, 2013, 63, 508-516.	5.4	179
94	Lowering Internal Friction of 0Dâ€“1Dâ€“2D Ternary Nanocompositeâ€Based Strain Sensor by Fullerene to Boost the Sensing Performance. Advanced Functional Materials, 2018, 28, 1800850.	7.8	179
95	Carbon Nanotube â€“ Reduced Graphene Oxide Composites for Thermal Energy Harvesting Applications. Advanced Materials, 2013, 25, 6602-6606.	11.1	178
96	Flexible, Magnetic, and Electrically Conductive Graphene/Fe₃O₄ Paper and Its Application for Magnetic-Controlled Switches. Journal of Physical Chemistry C, 2010, 114, 17465-17471.	1.5	176
97	Mesoporous activated carbon materials with ultrahigh mesopore volume and effective specific surface area for high performance supercapacitors. Carbon, 2017, 124, 64-71.	5.4	172
98	Electromechanical Actuators Based on Graphene and Graphene/Fe₃O₄ Hybrid Paper. Advanced Functional Materials, 2011, 21, 3778-3784.	7.8	170
99	Synthesis and characterization of a grapheneâ€“C60 hybrid material. Carbon, 2009, 47, 334-337.	5.4	166
100	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Smallâ€Molecule Bulkâ€Heterojunction Blends under Solvent Vapor Treatment. Advanced Materials, 2015, 27, 6296-6302.	11.1	159
101	A Halogenation Strategy for over 12% Efficiency Nonfullerene Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1702870.	10.2	159
102	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
103	Controlled synthesis of few-layered graphene sheets on a large scale using chemical exfoliation. Carbon, 2010, 48, 2367-2371.	5.4	156
104	Highly Conducting MXeneâ€“Silver Nanowire Transparent Electrodes for Flexible Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 25330-25337.	4.0	156
105	Evaluation of Solution-Processable Carbon-Based Electrodes for All-Carbon Solar Cells. ACS Nano, 2012, 6, 10384-10395.	7.3	154
106	Nonlinear optical properties of graphene-based materials. Science Bulletin, 2012, 57, 2971-2982.	1.7	144
107	A 2D covalent organic framework as a high-performance cathode material for lithium-ion batteries. Nano Energy, 2020, 70, 104498.	8.2	144
108	Ultrafast carrier dynamics and saturable absorption of solution-processable few-layered graphene oxide. Applied Physics Letters, 2011, 98, .	1.5	143

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109	Lowâ€Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. Advanced Materials, 2020, 32, e1906129.	11.1	143
110	Electromechanical Actuator with Controllable Motion, Fast Response Rate, and High-Frequency Resonance Based on Graphene and Polydiacetylene. ACS Nano, 2012, 6, 4508-4519.	7.3	141
111	An A-D-A Type Small-Molecule Electron Acceptor with End-Extended Conjugation for High Performance Organic Solar Cells. Chemistry of Materials, 2017, 29, 7908-7917.	3.2	139
112	The application of graphene based materials for actuators. Journal of Materials Chemistry, 2012, 22, 3671.	6.7	137
113	Phase Distribution and Carrier Dynamics in Multiple-Ring Aromatic Spacer-Based Two-Dimensional Ruddlesdenâ€“Popper Perovskite Solar Cells. ACS Nano, 2020, 14, 4871-4881.	7.3	126
114	Photoprompted Hot Electrons from Bulk Cross-Linked Graphene Materials and Their Efficient Catalysis for Atmospheric Ammonia Synthesis. ACS Nano, 2016, 10, 10507-10515.	7.3	125
115	Benzo[1,2-b:4,5-bâ€²]dithiophene (BDT)-based small molecules for solution processed organic solar cells. Journal of Materials Chemistry A, 2015, 3, 4765-4776.	5.2	117
116	Ultrasensitive Flow Sensing of a Single Cell Using Graphene-Based Optical Sensors. Nano Letters, 2014, 14, 3563-3569.	4.5	116
117	Evaluation of Electron Donor Materials for Solutionâ€Processed Organic Solar Cells via a Novel Figure of Merit. Advanced Energy Materials, 2017, 7, 1700465.	10.2	114
118	Direct and large scale electric arc discharge synthesis of boron and nitrogen doped single-walled carbon nanotubes and their electronic properties. Carbon, 2009, 47, 2112-2115.	5.4	113
119	Graphene quantum dots as the hole transport layer material for high-performance organic solar cells. Physical Chemistry Chemical Physics, 2013, 15, 18973.	1.3	113
120	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. Nanomaterials, 2017, 7, 21.	1.9	112
121	A New Nonfullerene Acceptor with Near Infrared Absorption for High Performance Ternaryâ€Blend Organic Solar Cells with Efficiency over 13%. Advanced Science, 2018, 5, 1800307.	5.6	111
122	Construction of a Fishâ€like Robot Based on High Performance Graphene/PVDF Bimorph Actuation Materials. Advanced Science, 2016, 3, 1500438.	5.6	106
123	Pyrolytic carbon-coated Si nanoparticles on elastic graphene framework as anode materials for high-performance lithium-ion batteries. Carbon, 2015, 82, 161-167.	5.4	105
124	A simple small molecule as an acceptor for fullerene-free organic solar cells with efficiency near 8%. Journal of Materials Chemistry A, 2016, 4, 10409-10413.	5.2	104
125	Efficient solution processed bulk-heterojunction solar cells based a donorâ€“acceptor oligothiophene. Journal of Materials Chemistry, 2010, 20, 2464.	6.7	103
126	A high-performance all-solid-state supercapacitor with graphene-doped carbon material electrodes and a graphene oxide-doped ion gel electrolyte. Carbon, 2014, 72, 381-386.	5.4	103

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127	Polymer photovoltaic devices with transparent graphene electrodes produced by spin-casting. Carbon, 2010, 48, 3308-3311.	5.4	100
128	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in Lithiumâ€“Sulfur Battery: An X-ray Absorption Spectroscopic Study. Journal of Physical Chemistry C, 2014, 118, 7765-7771.	1.5	99
129	Spacer Engineering Using Aromatic Formamidinium in 2D/3D Hybrid Perovskites for Highly Efficient Solar Cells. ACS Nano, 2021, 15, 7811-7820.	7.3	99
130	The preparation of functionalized graphene oxide for targeted intracellular delivery of siRNA. Journal of Materials Chemistry, 2012, 22, 6649.	6.7	98
131	A 3D cross-linked graphene-based honeycomb carbon composite withÂexcellent confinement effect of organic cathode material for lithium-ion batteries. Carbon, 2020, 157, 656-662.	5.4	98
132	Efficient small molecule bulk heterojunction solar cells with high fill factors via introduction of Ï€-stacking moieties as end group. Journal of Materials Chemistry A, 2013, 1, 1801-1809.	5.2	96
133	New Anthraceneâ€Fused Nonfullerene Acceptors for Highâ€Efficiency Organic Solar Cells: Energy Level Modulations Enabling Match of Donor and Acceptor. Advanced Energy Materials, 2019, 9, 1803541.	10.2	95
134	Efficient and thermally stable organic solar cells based on small molecule donor and polymer acceptor. Nature Communications, 2019, 10, 3271.	5.8	94
135	Consecutively Strong Absorption from Gigahertz to Terahertz Bands of a Monolithic Three-Dimensional Fe₃O₄/Graphene Material. ACS Applied Materials & Interfaces, 2019, 11, 1274-1282.	4.0	94
136	Nanoparticles Inhibit DNA Replication by Binding to DNA: Modeling and Experimental Validation. ACS Nano, 2013, 7, 9664-9674.	7.3	93
137	Size Effects on Adsorption of Hematite Nanoparticles on E. coli cells. Environmental Science & Technology, 2011, 45, 2172-2178.	4.6	92
138	Dithienosilole-Based Small-Molecule Organic Solar Cells with an Efficiency over 8%: Investigation of the Relationship between the Molecular Structure and Photovoltaic Performance. Chemistry of Materials, 2015, 27, 6077-6084.	3.2	92
139	High-quality single-layer graphene via reparative reduction of graphene oxide. Nano Research, 2011, 4, 434-439.	5.8	91
140	Achieving an Efficient and Stable Morphology in Organic Solar Cells Via Fine-Tuning the Side Chains of Small-Molecule Acceptors. Chemistry of Materials, 2020, 32, 2593-2604.	3.2	91
141	Ternary Organic Solar Cells With 12.8% Efficiency Using Two Nonfullerene Acceptors With Complementary Absorptions. Advanced Energy Materials, 2018, 8, 1800424.	10.2	90
142	3D printing nanocomposite gel-based thick electrode enabling both high areal capacity and rate performance for lithium-ion battery. Chemical Engineering Journal, 2020, 381, 122641.	6.6	89
143	Highâ€Precision Twistâ€Controlled Bilayer and Trilayer Graphene. Advanced Materials, 2016, 28, 2563-2570.	11.1	87
144	Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. Applied Physics Letters, 2010, 97, .	1.5	86

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145	Ionic Dopant-Free Polymer Alloy Hole Transport Materials for High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2022, 144, 9500-9509.	6.6	85
146	Super-elasticity of three-dimensionally cross-linked graphene materials all the way to deep cryogenic temperatures. Science Advances, 2019, 5, eaav2589.	4.7	84
147	An Acceptorâ€“Donorâ€“Acceptor Structured Small Molecule for Effective NIR Triggered Dual Phototherapy of Cancer. Advanced Functional Materials, 2020, 30, 1910301.	7.8	82
148	In situ synthesis of graphene/single-walled carbon nanotube hybrid material by arc-discharge and its application in supercapacitors. Nano Energy, 2012, 1, 820-827.	8.2	81
149	Photoconductivity of Bulkâ€Filmâ€Based Graphene Sheets. Small, 2009, 5, 1682-1687.	5.2	80
150	A carbon science perspective in 2018: Current achievements and future challenges. Carbon, 2018, 132, 785-801.	5.4	80
151	Fullerene-free small molecule organic solar cells with a high open circuit voltage of 1.15 V. Chemical Communications, 2016, 52, 465-468.	2.2	79
152	Pushing detectability and sensitivity for subtle force to new limits with shrinkable nanochannel structured aerogel. Nature Communications, 2022, 13, 1119.	5.8	79
153	Lowing the energy loss of organic solar cells by molecular packing engineering via multiple molecular conjugation extension. Science China Chemistry, 2022, 65, 1362-1373.	4.2	79
154	Compressible Highly Stable 3D Porous MXene/GO Foam with a Tunable High-Performance Stealth Property in the Terahertz Band. ACS Applied Materials & Interfaces, 2019, 11, 25369-25377.	4.0	78
155	The production of horizontally aligned single-walled carbon nanotubes. Carbon, 2011, 49, 4098-4110.	5.4	77
156	Highâ€Performance Allâ€Smallâ€Molecule Solar Cells Based on a New Type of Small Molecule Acceptors with Chlorinated End Groups. Advanced Energy Materials, 2018, 8, 1802021.	10.2	76
157	New small-molecule acceptors based on hexacyclic naphthalene(cyclopentadithiophene) for efficient non-fullerene organic solar cells. Journal of Materials Chemistry A, 2017, 5, 17204-17210.	5.2	75
158	Polymeric Graphene Bulk Materials with a 3D Crossâ€Linked Monolithic Graphene Network. Advanced Materials, 2019, 31, e1802403.	11.1	74
159	Excellent cycling stability with high SnO2 loading on a three-dimensional graphene network for lithium ion batteries. Carbon, 2016, 102, 32-38.	5.4	73
160	Achieving Both Enhanced Voltage and Current through Fineâ€Tuning Molecular Backbone and Morphology Control in Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901024.	10.2	73
161	Synthesis and properties of acceptorâ€“donorâ€“acceptor molecules based on oligothiophenes with tunable and low band gap. Tetrahedron, 2009, 65, 5209-5215.	1.0	71
162	Small Molecules Based on Alkyl/Alkylthio-thieno[3,2-b]thiophene-Substituted Benzo[1,2-b:4,5-bâ€²]dithiophene for Solution-Processed Solar Cells with High Performance. Chemistry of Materials, 2015, 27, 8414-8423.	3.2	71

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163	Recent progress of cathode materials for aqueous zinc-ion capacitors: Carbon-based materials and beyond. Carbon, 2021, 185, 126-151.	5.4	71
164	Effect of thermal annealing on active layer morphology and performance for small molecule bulk heterojunction organic solar cells. Journal of Materials Chemistry C, 2014, 2, 7247-7255.	2.7	70
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