Peng Chen

List of Publications by Year in descending order

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Version: 2024-02-01

377	43,008	1893	2571
papers	citations	102 h-index	195 g-index

381	381	381	48378
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glowing Graphene Quantum Dots and Carbon Dots: Properties, Syntheses, and Biological Applications. Small, 2015, 11, 1620-1636.	10.0	1,770
2	Biological and chemical sensors based on graphene materials. Chemical Society Reviews, 2012, 41, 2283-2307.	38.1	1,591
3	Heteroatom-doped graphene materials: syntheses, properties and applications. Chemical Society Reviews, 2014, 43, 7067-7098.	38.1	1,547
4	3D Grapheneâ€“Cobalt Oxide Electrode for High-Performance Supercapacitor and Enzymeless Glucose Detection. ACS Nano, 2012, 6, 3206-3213.	14.6	1,510
5	In Situ Synthesis of Metal Nanoparticles on Single-Layer Graphene Oxide and Reduced Graphene Oxide Surfaces. Journal of Physical Chemistry C, 2009, 113, 10842-10846.	3.1	702
6	Solution-processable 2D semiconductors for high-performance large-area electronics. Nature, 2018, 562, 254-258.	27.8	644
7	Recent Advances on Graphene Quantum Dots: From Chemistry and Physics to Applications. Advanced Materials, 2019, 31, e1808283.	21.0	603
8	Centimeter-Long and Large-Scale Micropatterns of Reduced Graphene Oxide Films: Fabrication and Sensing Applications. ACS Nano, 2010, 4, 3201-3208.	14.6	571
9	In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706923.	14.9	543
10	Doping Singleâ€Layer Graphene with Aromatic Molecules. Small, 2009, 5, 1422-1426.	10.0	537
11	Revealing the tunable photoluminescence properties of graphene quantum dots. Journal of Materials Chemistry C, 2014, 2, 6954-6960.	5.5	530
12	Macroporous and Monolithic Anode Based on Polyaniline Hybridized Three-Dimensional Graphene for High-Performance Microbial Fuel Cells. ACS Nano, 2012, 6, 2394-2400.	14.6	520
13	Robust epitaxial growth of two-dimensional heterostructures, multiheterostructures, and superlattices. Science, 2017, 357, 788-792.	12.6	518
14	Electrical Detection of DNA Hybridization with Singleâ€Base Specificity Using Transistors Based on CVDâ€Grown Graphene Sheets. Advanced Materials, 2010, 22, 1649-1653.	21.0	516
15	Surface Modified Ti₃C₂ MXene Nanosheets for Tumor Targeting Photothermal/Photodynamic/Chemo Synergistic Therapy. ACS Applied Materials & Interfaces, 2017, 9, 40077-40086.	8.0	491
16	Superhydrophobic and superoleophilic hybrid foam of graphene and carbon nanotube for selective removal of oils or organic solvents from the surface of water. Chemical Communications, 2012, 48, 10660.	4.1	471
17	Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe³⁺ Sensing. Advanced Functional Materials, 2014, 24, 3021-3026.	14.9	446
18	One-Pot Synthesis of Carbon-Coated SnO₂ Nanocolloids with Improved Reversible Lithium Storage Properties. Chemistry of Materials, 2009, 21, 2868-2874.	6.7	421

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19	Ultralong Phosphorescence of Waterâ€Soluble Organic Nanoparticles for In Vivo Afterglow Imaging. Advanced Materials, 2017, 29, 1606665.	21.0	419
20	New BiVO₄ Dual Photoanodes with Enriched Oxygen Vacancies for Efficient Solarâ€Driven Water Splitting. Advanced Materials, 2018, 30, e1800486.	21.0	414
21	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1â^'xFAxPbI3 quantum dot solar cells with reduced phase segregation. Nature Energy, 2020, 5, 79-88.	39.5	412
22	Nanoelectronic biosensors based on CVD grown graphene. Nanoscale, 2010, 2, 1485.	5.6	408
23	Quantum dots derived from two-dimensional materials and their applications for catalysis and energy. Chemical Society Reviews, 2016, 45, 2239-2262.	38.1	391
24	Atomic Layer Deposition to Fine-Tune the Surface Properties and Diameters of Fabricated Nanopores. Nano Letters, 2004, 4, 1333-1337.	9.1	385
25	An Electrochemically Treated BiVO₄ Photoanode for Efficient Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 8500-8504.	13.8	369
26	Strategies for enhancing the sensitivity of plasmonic nanosensors. Nano Today, 2015, 10, 213-239.	11.9	356
27	Boosting the Photocatalytic Ability of Cu₂O Nanowires for CO₂ Conversion by MXene Quantum Dots. Advanced Functional Materials, 2019, 29, 1806500.	14.9	354
28	Graphene-based biosensors for detection of bacteria and their metabolic activities. Journal of Materials Chemistry, 2011, 21, 12358.	6.7	343
29	Probing Single DNA Molecule Transport Using Fabricated Nanopores. Nano Letters, 2004, 4, 2293-2298.	9.1	341
30	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO₂ Reduction. ACS Nano, 2018, 12, 3523-3532.	14.6	341
31	Hybrid Fibers Made of Molybdenum Disulfide, Reduced Graphene Oxide, and Multiâ€Walled Carbon Nanotubes for Solidâ€State, Flexible, Asymmetric Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 4651-4656.	13.8	334
32	Transparent, Flexible, All-Reduced Graphene Oxide Thin Film Transistors. ACS Nano, 2011, 5, 5038-5044.	14.6	305
33	A Swellable Microneedle Patch to Rapidly Extract Skin Interstitial Fluid for Timely Metabolic Analysis. Advanced Materials, 2017, 29, 1702243.	21.0	303
34	Interfacing Live Cells with Nanocarbon Substrates. Langmuir, 2010, 26, 2244-2247.	3.5	301
35	Oxygenic Hybrid Semiconducting Nanoparticles for Enhanced Photodynamic Therapy. Nano Letters, 2018, 18, 586-594.	9.1	294
36	3D Graphene Foam as a Monolithic and Macroporous Carbon Electrode for Electrochemical Sensing. ACS Applied Materials & Interfaces, 2012, 4, 3129-3133.	8.0	292

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37	Addressing Toxicity of Lead: Progress and Applications of Lowâ€Toxic Metal Halide Perovskites and Their Derivatives. Advanced Energy Materials, 2017, 7, 1602512.	19.5	290
38	Hybrid structure of zinc oxide nanorods and three dimensional graphene foam for supercapacitor and electrochemical sensor applications. RSC Advances, 2012, 2, 4364.	3.6	285
39	Rare-Earth Single-Atom Laâ€“N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO₂ Reduction. ACS Nano, 2020, 14, 15841-15852.	14.6	283
40	Electrical Detection of Metal Ions Using Field-Effect Transistors Based on Micropatterned Reduced Graphene Oxide Films. ACS Nano, 2011, 5, 1990-1994.	14.6	279
41	Understanding the Roles of Oxygen Vacancies in Hematiteâ€Based Photoelectrochemical Processes. Angewandte Chemie - International Edition, 2019, 58, 1030-1034.	13.8	268
42	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. Chemical Engineering Journal, 2020, 379, 122282.	12.7	260
43	Recent progress in the development of near-infrared organic photothermal and photodynamic nanotherapeutics. Biomaterials Science, 2018, 6, 746-765.	5.4	250
44	Regulating Near-Infrared Photodynamic Properties of Semiconducting Polymer Nanotheranostics for Optimized Cancer Therapy. ACS Nano, 2017, 11, 8998-9009.	14.6	239
45	In Situ Formation of Oxygen Vacancies Achieving Nearâ€Complete Charge Separation in Planar BiVO₄ Photoanodes. Advanced Materials, 2020, 32, e2001385.	21.0	236
46	Graphene Quantum Dots as Universal Fluorophores and Their Use in Revealing Regulated Trafficking of Insulin Receptors in Adipocytes. ACS Nano, 2013, 7, 6278-6286.	14.6	229
47	Organic Dye Based Nanoparticles for Cancer Phototheranostics. Small, 2018, 14, e1704247.	10.0	226
48	Observation of Strong Interlayer Coupling in MoS₂/WS₂ Heterostructures. Advanced Materials, 2016, 28, 1950-1956.	21.0	225
49	Symmetry Breaking of Graphene Monolayers by Molecular Decoration. Physical Review Letters, 2009, 102, 135501.	7.8	224
50	Graphene-wrapped TiO2 hollow structures with enhanced lithium storage capabilities. Nanoscale, 2011, 3, 2158.	5.6	223
51	Activatable Photoacoustic Nanoprobes for In Vivo Ratiometric Imaging of Peroxynitrite. Advanced Materials, 2017, 29, 1604764.	21.0	220
52	Grapheneâ€Contacted Ultrashort Channel Monolayer MoS₂ Transistors. Advanced Materials, 2017, 29, 1702522.	21.0	218
53	Metalâ€“organic framework derived CoSe2 nanoparticles anchored on carbon fibers as bifunctional electrocatalysts for efficient overall water splitting. Nano Research, 2016, 9, 2234-2243.	10.4	215
54	Synthesis of a MnO2â€“graphene foam hybrid with controlled MnO2 particle shape and its use as a supercapacitor electrode. Carbon, 2012, 50, 4865-4870.	10.3	214

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55	Electrodeposited Pt on three-dimensional interconnected graphene as a free-standing electrode for fuel cell application. Journal of Materials Chemistry, 2012, 22, 5286.	6.7	210
56	Van der Waals epitaxial growth of air-stable CrSe2 nanosheets with thickness-tunable magnetic order. Nature Materials, 2021, 20, 818-825.	27.5	206
57	De Novo Reconstruction of Adipose Tissue Transcriptomes Reveals Long Non-coding RNA Regulators of Brown Adipocyte Development. Cell Metabolism, 2015, 21, 764-776.	16.2	201
58	Graphene quantum dots functionalized gold nanoparticles for sensitive electrochemical detection of heavy metal ions. Electrochimica Acta, 2015, 172, 7-11.	5.2	200
59	Synthesis of grapheneâ€“carbon nanotube hybrid foam and its use as a novel three-dimensional electrode for electrochemical sensing. Journal of Materials Chemistry, 2012, 22, 17044.	6.7	197
60	Bi metal prevents the deactivation of oxygen vacancies in Bi2O2CO3 for stable and efficient photocatalytic NO abatement. Applied Catalysis B: Environmental, 2020, 264, 118545.	20.2	197
61	Label-free, electrochemical detection of methicillin-resistant staphylococcus aureus DNA with reduced graphene oxide-modified electrodes. Biosensors and Bioelectronics, 2011, 26, 3881-3886.	10.1	191
62	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. Nanoscale, 2012, 4, 293-297.	5.6	185
63	Synthesis of Ultrathin Metallic MTe₂ (M = V, Nb, Ta) Singleâ€Crystalline Nanoplates. Advanced Materials, 2018, 30, e1801043.	21.0	183
64	One-step growth of grapheneâ€“carbon nanotube hybrid materials by chemical vapor deposition. Carbon, 2011, 49, 2944-2949.	10.3	182
65	MOF-directed templating synthesis of a porous multicomponent dodecahedron with hollow interiors for enhanced lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 8483-8488.	10.3	178
66	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. Physical Chemistry Chemical Physics, 2010, 12, 2164.	2.8	176
67	Free-standing electrochemical electrode based on Ni(OH)₂/3D graphene foam for nonenzymatic glucose detection. Nanoscale, 2014, 6, 7424-7429.	5.6	174
68	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. Nanoscale, 2015, 7, 8159-8165.	5.6	174
69	Effective doping of single-layer graphene from underlying<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> substrates: a Physical Review B, 2009, 79, .	3.2	173
70	RGD-Peptide Functionalized Graphene Biomimetic Live-Cell Sensor for Real-Time Detection of Nitric Oxide Molecules. ACS Nano, 2012, 6, 6944-6951.	14.6	172
71	pH-Triggered and Enhanced Simultaneous Photodynamic and Photothermal Therapy Guided by Photoacoustic and Photothermal Imaging. Chemistry of Materials, 2017, 29, 5216-5224.	6.7	170
72	Layer-by-layer printing of laminated graphene-based interdigitated microelectrodes for flexible planar micro-supercapacitors. Electrochemistry Communications, 2015, 51, 33-36.	4.7	169

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73	Growth of large-sized graphene thin-films by liquid precursor-based chemical vapor deposition under atmospheric pressure. Carbon, 2011, 49, 3672-3678.	10.3	158
74	A grapheneâ€“cobalt oxide based needle electrode for non-enzymatic glucose detection in micro-droplets. Chemical Communications, 2012, 48, 6490.	4.1	155
75	Using oxidation to increase the electrical conductivity of carbon nanotube electrodes. Carbon, 2009, 47, 1867-1870.	10.3	152
76	Interfacing Glycosylated Carbonâ€Nanotubeâ€Network Devices with Living Cells to Detect Dynamic Secretion of Biomolecules. Angewandte Chemie - International Edition, 2009, 48, 2723-2726.	13.8	148
77	Broadband tunable liquid crystal terahertz waveplates driven with porous graphene electrodes. Light: Science and Applications, 2015, 4, e253-e253.	16.6	148
78	Thickness-Tunable Synthesis of Ultrathin Type-II Dirac Semimetal PtTe₂ Single Crystals and Their Thickness-Dependent Electronic Properties. Nano Letters, 2018, 18, 3523-3529.	9.1	147
79	Ultrasensitive Profiling of Metabolites Using Tyramine-Functionalized Graphene Quantum Dots. ACS Nano, 2016, 10, 3622-3629.	14.6	145
80	Graphene quantum dot engineered nickel-cobalt phosphide as highly efficient bifunctional catalyst for overall water splitting. Nano Energy, 2018, 48, 284-291.	16.0	143
81	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	7.8	142
82	A hierarchically structured composite of Mn₃O₄/3D graphene foam for flexible nonenzymatic biosensors. Journal of Materials Chemistry B, 2013, 1, 110-115.	5.8	137
83	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. Science, 2021, 374, 621-625.	12.6	137
84	Three-Dimensional Graphene-Carbon Nanotube Hybrid for High-Performance Enzymatic Biofuel Cells. ACS Applied Materials & Interfaces, 2014, 6, 3387-3393.	8.0	136
85	Interconnected Tin Disulfide Nanosheets Grown on Graphene for Li-Ion Storage and Photocatalytic Applications. ACS Applied Materials & Interfaces, 2013, 5, 12073-12082.	8.0	135
86	Graphene supported Snâ€“Sb@carbon core-shell particles as a superior anode for lithium ion batteries. Electrochemistry Communications, 2010, 12, 1302-1306.	4.7	132
87	Chemical synthesis of two-dimensional atomic crystals, heterostructures and superlattices. Chemical Society Reviews, 2018, 47, 3129-3151.	38.1	132
88	Digitalizing Selfâ€Assembled Chiral Superstructures for Optical Vortex Processing. Advanced Materials, 2018, 30, 1705865.	21.0	131
89	The formation of a carbon nanotubeâ€“graphene oxide coreâ€“shell structure and its possible applications. Carbon, 2011, 49, 5071-5078.	10.3	130
90	Nanochannel-Confined Graphene Quantum Dots for Ultrasensitive Electrochemical Analysis of Complex Samples. ACS Nano, 2018, 12, 12673-12681.	14.6	129

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91	Quantum Dots with Phenylboronic Acid Tags for Specific Labeling of Sialic Acids on Living Cells. Analytical Chemistry, 2011, 83, 1124-1130.	6.5	128
92	Enhanced perovskite electronic properties via a modified lead(<scp>ii</scp>) chloride Lewis acidâ€“base adduct and their effect in high-efficiency perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 5195-5203.	10.3	128
93	Surface Chemistry Engineering of Perovskite Quantum Dots: Strategies, Applications, and Perspectives. Advanced Materials, 2022, 34, e2105958.	21.0	128
94	Supercapacitor electrode based on three-dimensional grapheneâ€“polyaniline hybrid. Materials Chemistry and Physics, 2012, 134, 576-580.	4.0	125
95	Liquidâ€Crystalâ€Mediated Geometric Phase: From Transmissive to Broadband Reflective Planar Optics. Advanced Materials, 2020, 32, e1903665.	21.0	124
96	Carbon nanotubes grown in situ on graphene nanosheets as superior anodes for Li-ion batteries. Nanoscale, 2011, 3, 4323.	5.6	119
97	Fabrication of Ultralong Hybrid Microfibers from Nanosheets of Reduced Graphene Oxide and Transitionâ€Metal Dichalcogenides and their Application as Supercapacitors. Angewandte Chemie - International Edition, 2014, 53, 12576-12580.	13.8	119
98	Multilayered semiconducting polymer nanoparticles with enhanced NIR fluorescence for molecular imaging in cells, zebrafish and mice. Chemical Science, 2016, 7, 5118-5125.	7.4	113
99	Non-enzymatic detection of hydrogen peroxide using a functionalized three-dimensional graphene electrode. Electrochemistry Communications, 2013, 26, 81-84.	4.7	109
100	Polydopamine-Enabled Approach toward Tailored Plasmonic Nanogapped Nanoparticles: From Nanogap Engineering to Multifunctionality. ACS Nano, 2016, 10, 11066-11075.	14.6	109
101	Synergistic effects of crystal structure and oxygen vacancy on Bi2O3 polymorphs: intermediates activation, photocatalytic reaction efficiency, and conversion pathway. Science Bulletin, 2020, 65, 467-476.	9.0	108
102	Arbitrary and reconfigurable optical vortex generation: a high-efficiency technique using director-varying liquid crystal fork gratings. Photonics Research, 2015, 3, 133.	7.0	106
103	Facile and scalable preparation of highly luminescent N,S co-doped graphene quantum dots and their application for parallel detection of multiple metal ions. Journal of Materials Chemistry B, 2017, 5, 6593-6600.	5.8	106
104	Chirality invertible superstructure mediated active planar optics. Nature Communications, 2019, 10, 2518.	12.8	106
105	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. Applied Catalysis B: Environmental, 2019, 242, 19-30.	20.2	103
106	Phase-controlled synthesis of Î±-NiS nanoparticles confined in carbon nanorods for High Performance Supercapacitors. Scientific Reports, 2014, 4, 7054.	3.3	101
107	Generation of arbitrary vector beams with liquid crystal polarization converters and vector-photoaligned q-plates. Applied Physics Letters, 2015, 107, .	3.3	100
108	van der Waals Heterojunction between a Bottom-Up Grown Doped Graphene Quantum Dot and Graphene for Photoelectrochemical Water Splitting. ACS Nano, 2020, 14, 1185-1195.	14.6	100

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109	Achieving stable and efficient water oxidation by incorporating NiFe layered double hydroxide nanoparticles into aligned carbon nanotubes. Nanoscale Horizons, 2016, 1, 156-160.	8.0	99
110	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. Applied Catalysis B: Environmental, 2020, 260, 118130.	20.2	99
111	CMOSâ€Compatible Nanowire Sensor Arrays for Detection of Cellular Bioelectricity. Small, 2009, 5, 208-212.	10.0	98
112	Progress and Perspective in Lowâ€Dimensional Metal Halide Perovskites for Optoelectronic Applications. Solar Rrl, 2018, 2, 1700186.	5.8	98
113	Comparison of biochemical effects of statins and fish oil in brain: The battle of the titans. Brain Research Reviews, 2007, 56, 443-471.	9.0	97
114	Ferritin-Templated Synthesis and Self-Assembly of Pt Nanoparticles on a Monolithic Porous Graphene Network for Electrocatalysis in Fuel Cells. ACS Applied Materials & Interfaces, 2013, 5, 782-787.	8.0	96
115	An aza-BODIPY photosensitizer for photoacoustic and photothermal imaging guided dual modal cancer phototherapy. Journal of Materials Chemistry B, 2017, 5, 1566-1573.	5.8	96
116	In Situ Synthesis of Reduced Graphene Oxide and Gold Nanocomposites for Nanoelectronics and Biosensing. Nanoscale Research Letters, 2011, 6, 60.	5.7	93
117	High capacitive performance of flexible and binder-free grapheneâ€“polypyrrole composite membrane based on in situ reduction of graphene oxide and self-assembly. Nanoscale, 2013, 5, 9860.	5.6	93
118	Digitalized Geometric Phases for Parallel Optical Spin and Orbital Angular Momentum Encoding. ACS Photonics, 2017, 4, 1333-1338.	6.6	93
119	Apelin Attenuates Oxidative Stress in Human Adipocytes. Journal of Biological Chemistry, 2014, 289, 3763-3774.	3.4	92
120	Roles of Cholesterol in Vesicle Fusion and Motion. Biophysical Journal, 2009, 97, 1371-1380.	0.5	91
121	Precisely Aligned Monolayer MoS₂ Epitaxially Grown on hâ€BN basal Plane. Small, 2017, 13, 1603005.	10.0	91
122	Bifunctional N-CoSe₂/3D-MXene as Highly Efficient and Durable Cathode for Rechargeable Znâ€“Air Battery. , 2019, 1, 432-439.		90
123	Apelin inhibits adipogenesis and lipolysis through distinct molecular pathways. Molecular and Cellular Endocrinology, 2012, 362, 227-241.	3.2	89
124	Insight into the charge transport correlation in Au_x clusters and graphene quantum dots deposited on TiO₂ nanotubes for photoelectrochemical oxygen evolution. Journal of Materials Chemistry A, 2018, 6, 11154-11162.	10.3	89
125	Electrosynthesis and characterization of polypyrrole/Au nanocomposite. Electrochimica Acta, 2007, 52, 2845-2849.	5.2	88
126	Transdermal Delivery of Antiâ€Obesity Compounds to Subcutaneous Adipose Tissue with Polymeric Microneedle Patches. Small Methods, 2017, 1, 1700269.	8.6	88

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127	Carbohydrate functionalized carbon nanotubes and their applications. Chemical Society Reviews, 2010, 39, 2925.	38.1	87
128	Apelin Enhances Brown Adipogenesis and Browning of White Adipocytes. Journal of Biological Chemistry, 2015, 290, 14679-14691.	3.4	87
129	Nanowires assembled from MnCo2O4@C nanoparticles for water splitting and all-solid-state supercapacitor. Nano Research, 2016, 9, 1300-1309.	10.4	87
130	Amperometric Detection of Quantal Catecholamine Secretion from Individual Cells on Micromachined Silicon Chips. Analytical Chemistry, 2003, 75, 518-524.	6.5	86
131	Increase of riboflavin biosynthesis underlies enhancement of extracellular electron transfer of Shewanella in alkaline microbial fuel cells. Bioresource Technology, 2013, 130, 763-768.	9.6	86
132	Meta-q-plate for complex beam shaping. Scientific Reports, 2016, 6, 25528.	3.3	86
133	Simultaneous label-free and pretreatment-free detection of heavy metal ions in complex samples using electrodes decorated with vertically ordered silica nanochannels. Sensors and Actuators B: Chemical, 2018, 259, 364-371.	7.8	86
134	Dualâ€Ionâ€Diffusion Induced Degradation in Leadâ€Free Cs₂AgBiBr₆ Double Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2002342.	14.9	86
135	Solid-Phase Colorimetric Sensor Based on Gold Nanoparticle-Loaded Polymer Brushes: Lead Detection as a Case Study. Analytical Chemistry, 2013, 85, 4094-4099.	6.5	84
136	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. Applied Catalysis B: Environmental, 2020, 272, 118977.	20.2	84
137	A highly Ca2+-sensitive pool of vesicles is regulated by protein kinase C in adrenal chromaffin cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 17060-17065.	7.1	83
138	High-strength carbon nanotube buckypaper composites as applied to free-standing electrodes for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 4057.	10.3	83
139	Strain sensors based on chromium nanoparticle arrays. Nanoscale, 2014, 6, 3930-3933.	5.6	83
140	Ternary Chalcogenide Nanosheets with Ultrahigh Photothermal Conversion Efficiency for Photoacoustic Theranostics. Small, 2017, 13, 1604139.	10.0	83
141	Microwave-assisted solvothermal synthesis of 3D carnation-like SnS2 nanostructures with high visible light photocatalytic activity. Journal of Molecular Catalysis A, 2013, 378, 285-292.	4.8	82
142	Organic Nanoprobe Cocktails for Multilocal and Multicolor Fluorescence Imaging of Reactive Oxygen Species. Advanced Functional Materials, 2017, 27, 1700493.	14.9	82
143	A graphene nanoribbon network and its biosensing application. Nanoscale, 2011, 3, 5156.	5.6	81
144	Theoretical design and experimental investigation on highly selective Pd particles decorated C3N4 for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	12.4	81

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145	Dynamic transcriptome changes during adipose tissue energy expenditure reveal critical roles for long noncoding RNA regulators. PLoS Biology, 2017, 15, e2002176.	5.6	81
146	Terahertz vortex beam generator based on a photopatterned large birefringence liquid crystal. Optics Express, 2017, 25, 12349.	3.4	79
147	Biâ€based photocatalysts for <scp>lightâ€driven</scp> environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. EcoMat, 2020, 2, e12047.	11.9	79
148	Synergistic photo-thermal catalytic NO purification of MnO /g-C3N4: Enhanced performance and reaction mechanism. Chinese Journal of Catalysis, 2018, 39, 619-629.	14.0	75
149	Graphene wrapped SnCo nanoparticles for high-capacity lithium ion storage. Journal of Power Sources, 2013, 222, 526-532.	7.8	73
150	The Electrical Detection of Lead Ions Using Goldâ€Nanoparticleâ€and DNAzymeâ€Functionalized Graphene Device. Advanced Healthcare Materials, 2013, 2, 271-274.	7.6	73
151	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie - International Edition, 2020, 59, 19434-19449.	13.8	73
152	Micro- and Nanotechnologies for Study of Cell Secretion. Analytical Chemistry, 2011, 83, 4393-4406.	6.5	72
153	Monitoring Dynamic Cellular Redox Homeostasis Using Fluorescence-Switchable Graphene Quantum Dots. ACS Nano, 2016, 10, 11475-11482.	14.6	71
154	Gold nanoparticles decorated reduced graphene oxide for detecting the presence and cellular release of nitric oxide. Electrochimica Acta, 2013, 111, 441-446.	5.2	69
155	Liquid crystal integrated metalens with tunable chromatic aberration. Advanced Photonics, 2020, 2, 1.	11.8	68
156	Tunable Electroluminescence in Planar Graphene/SiO₂ Memristors. Advanced Materials, 2013, 25, 5593-5598.	21.0	67
157	Multi-stimuli responsive smart chitosan-based microcapsules for targeted drug delivery and triggered drug release. Ultrasonics Sonochemistry, 2017, 38, 145-153.	8.2	67
158	Pivotal roles of artificial oxygen vacancies in enhancing photocatalytic activity and selectivity on Bi2O2CO3 nanosheets. Chinese Journal of Catalysis, 2019, 40, 620-630.	14.0	65
159	Ultrafast growth of large single crystals of monolayer WS2 and WSe2. National Science Review, 2020, 7, 737-744.	9.5	64
160	Direct van der Waals epitaxial growth of 1D/2D Sb2Se3/WS2 mixed-dimensional p-n heterojunctions. Nano Research, 2019, 12, 1139-1145.	10.4	63
161	Label-free detection of ATP release from living astrocytes with high temporal resolution using carbon nanotube network. Biosensors and Bioelectronics, 2009, 24, 2716-2720.	10.1	62
162	Design of twin junction with solid solution interface for efficient photocatalytic H2 production. Nano Energy, 2020, 69, 104410.	16.0	62

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163	Gate tunable MoS ₂ â€“black phosphorus heterojunction devices. 2D Materials, 2015, 2, 034009.	4.4	61
164	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO₄for Sustainable Visible Light Photocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 47984-47991.	8.0	61
165	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. Nature Electronics, 2020, 3, 630-637.	26.0	61
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