

# Guqiao Ding

## List of Publications by Year in descending order

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121  
papers

7,147  
citations

53794

45  
h-index

58581

82  
g-index

121  
all docs

121  
docs citations

121  
times ranked

10418  
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. <i>Nature Communications</i> , 2016, 7, 13869.	12.8	505
2	Large-scale fabrication of heavy doped carbon quantum dots with tunable-photoluminescence and sensitive fluorescence detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8660.	10.3	405
3	C <sub>3</sub> N <sub>4</sub> A 2D Crystalline, Hole-Free, Tunable-Narrow-Bandgap Semiconductor with Ferromagnetic Properties. <i>Advanced Materials</i> , 2017, 29, 1605625.	21.0	350
4	Combustion synthesis of graphene oxide-TiO <sub>2</sub> hybrid materials for photodegradation of methyl orange. <i>Carbon</i> , 2012, 50, 4093-4101.	10.3	218
5	Facile and Highly Effective Synthesis of Controllable Lattice Sulfur-Doped Graphene Quantum Dots via Hydrothermal Treatment of Durian. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5750-5759.	8.0	201
6	Wetting on Nanoporous Alumina Surface: Transition between Wenzel and Cassie States Controlled by Surface Structure. <i>Langmuir</i> , 2008, 24, 9952-9955.	3.5	190
7	Selenium Doped Graphene Quantum Dots as an Ultrasensitive Redox Fluorescent Switch. <i>Chemistry of Materials</i> , 2015, 27, 2004-2011.	6.7	190
8	Ultra-High Quantum Yield of Graphene Quantum Dots: Aromatic-Nitrogen Doping and Photoluminescence Mechanism. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 434-440.	2.3	182
9	Direct Growth of Graphene Film on Germanium Substrate. <i>Scientific Reports</i> , 2013, 3, 2465.	3.3	181
10	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-graphene composite films for wearable strain sensors featured with high sensitivity and large range of linear response. <i>Nano Energy</i> , 2019, 66, 104134.	16.0	149
11	Processable Aqueous Dispersions of Graphene Stabilized by Graphene Quantum Dots. <i>Chemistry of Materials</i> , 2015, 27, 218-226.	6.7	144
12	Carbon-Based Quantum Dots with Solid-State Photoluminescent: Mechanism, Implementation, and Application. <i>Small</i> , 2020, 16, e2004621.	10.0	141
13	Negative induction effect of graphite N on graphene quantum dots: tunable band gap photoluminescence. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8810-8816.	5.5	139
14	Phase-Separation-Induced PVDF/Graphene Coating on Fabrics toward Flexible Piezoelectric Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30732-30740.	8.0	138
15	Direct growth of few layer graphene on hexagonal boron nitride by chemical vapor deposition. <i>Carbon</i> , 2011, 49, 2522-2525.	10.3	135
16	Tungsten oxide nanowire-reduced graphene oxide aerogel for high-efficiency visible light photocatalysis. <i>Carbon</i> , 2014, 78, 38-48.	10.3	132
17	Tunable synaptic behavior realized in C <sub>3</sub> N composite based memristor. <i>Nano Energy</i> , 2019, 58, 293-303.	16.0	123
18	A new mild, clean and highly efficient method for the preparation of graphene quantum dots without by-products. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6871-6876.	5.8	120

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19	One-pot microwave-assisted combustion synthesis of graphene oxide/TiO <sub>2</sub> hybrids for photodegradation of methyl orange. <i>Journal of Alloys and Compounds</i> , 2013, 551, 382-388.	5.5	111
20	Porous Fibers Composed of Polymer Nanoball Decorated Graphene for Wearable and Highly Sensitive Strain Sensors. <i>Advanced Functional Materials</i> , 2019, 29, 1903732.	14.9	111
21	Preparation and characterization of graphene oxide/poly(vinyl alcohol) composite nanofibers via electrospinning. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3026-3032.	2.6	108
22	Emancipating Target-Functionalized Carbon Dots from Autophagy Vesicles for a Novel Visualized Tumor Therapy. <i>Advanced Functional Materials</i> , 2018, 28, 1800881.	14.9	97
23	Enhanced electromagnetic wave absorption performances of Co <sub>3</sub> O <sub>4</sub> nanocube/reduced graphene oxide composite. <i>Synthetic Metals</i> , 2014, 194, 52-58.	3.9	95
24	Nucleation and growth of single crystal graphene on hexagonal boron nitride. <i>Carbon</i> , 2012, 50, 329-331.	10.3	94
25	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016, 16, 3160-3165.	9.1	92
26	Graphene quantum dot incorporated perovskite films: passivating grain boundaries and facilitating electron extraction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6057-6063.	2.8	92
27	Electron Injection of Phosphorus Doped g-C <sub>3</sub> N <sub>4</sub> Quantum Dots: Controllable Photoluminescence Emission Wavelength in the Whole Visible Light Range with High Quantum Yield. <i>Advanced Optical Materials</i> , 2016, 4, 2095-2101.	7.3	86
28	Chemical vapor deposition of graphene on liquid metal catalysts. <i>Carbon</i> , 2013, 53, 321-326.	10.3	82
29	Homologous metal-free electrocatalysts grown on three-dimensional carbon networks for overall water splitting in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12878-12883.	10.3	75
30	Carbon Dioxide Hydrogenation over a Metal-Free Carbon-Based Catalyst. <i>ACS Catalysis</i> , 2017, 7, 4497-4503.	11.2	71
31	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. <i>Langmuir</i> , 2018, 34, 250-258.	3.5	71
32	Seamless lateral graphene p-n junctions formed by selective in situ doping for high-performance photodetectors. <i>Nature Communications</i> , 2018, 9, 5168.	12.8	71
33	Graphene Quantum Dots with Pyrrole N and Pyridine N: Superior Reactive Oxygen Species Generation Efficiency for Metal-Free Sonodynamic Tumor Therapy. <i>Small</i> , 2021, 17, e2004867.	10.0	69
34	Surface Modification of C <sub>3</sub> N <sub>4</sub> through Oxygen-Plasma Treatment: A Simple Way toward Excellent Hydrophilicity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31419-31425.	8.0	66
35	Self-Matched-Tribo/Piezoelectric Nanogenerators Using Vapor-Induced Phase-Separated Poly(vinylidene fluoride) and Recombinant Spider Silk. <i>Advanced Materials</i> , 2020, 32, e1907336.	21.0	63
36	Manipulating Crystal Orientation of Poly(ethylene oxide) by Nanopores. <i>ACS Macro Letters</i> , 2013, 2, 181-184.	4.8	62

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37	Two-phase hydrothermal synthesis of TiO <sub>2</sub> @graphene hybrids with improved photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2013, 572, 199-204.	5.5	61
38	Urea-assisted aqueous exfoliation of graphite for obtaining high-quality graphene. <i>Chemical Communications</i> , 2015, 51, 4651-4654.	4.1	61
39	Graphite-N Doped Graphene Quantum Dots as Semiconductor Additive in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37796-37803.	8.0	61
40	Electrochemical Fabrication of High Quality Graphene in Mixed Electrolyte for Ultrafast Electrothermal Heater. <i>Chemistry of Materials</i> , 2017, 29, 6214-6219.	6.7	60
41	A New Graphene Derivative: Hydroxylated Graphene with Excellent Biocompatibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10226-10233.	8.0	59
42	Enhanced Crystallization from the Glassy State of Poly(L-lactic acid) Confined in Anodic Alumina Oxide Nanopores. <i>Macromolecules</i> , 2015, 48, 2526-2533.	4.8	54
43	Photoinduced electron transfer of poly(o-phenylenediamine)-Rhodamine B copolymer dots: application in ultrasensitive detection of nitrite in vivo. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7568-7574.	10.3	51
44	Enhancing the magnetic relaxivity of MRI contrast agents via the localized superacid microenvironment of graphene quantum dots. <i>Biomaterials</i> , 2020, 250, 120056.	11.4	48
45	Imaging Cellular Aerobic Glycolysis using Carbon Dots for Early Warning of Tumorigenesis. <i>Advanced Materials</i> , 2021, 33, e2005096.	21.0	48
46	Kinetically Enhanced Bubble-Exfoliation of Graphite toward High-Yield Preparation of High-Quality Graphene. <i>Chemistry of Materials</i> , 2017, 29, 8578-8582.	6.7	45
47	Multi-color Reversible Photochromisms via Tunable Light-Dependent Responses. <i>Matter</i> , 2020, 2, 680-696.	10.0	44
48	Synthesis of Layer-Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. <i>Advanced Functional Materials</i> , 2015, 25, 3666-3675.	14.9	43
49	Magnetic graphene quantum dots facilitate closed-tube one-step detection of SARS-CoV-2 with ultra-low field NMR relaxometry. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129786.	7.8	40
50	Supramolecular recognition control of polyethylene glycol modified N-doped graphene quantum dots: tunable selectivity for alkali and alkaline-earth metal ions. <i>Analyst</i> , 2016, 141, 1052-1059.	3.5	39
51	One-step fast electrochemical fabrication of water-dispersible graphene. <i>Carbon</i> , 2017, 111, 617-621.	10.3	38
52	Conductive graphene-based E-textile for highly sensitive, breathable, and water-resistant multimodal gesture-distinguishable sensors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14778-14787.	10.3	38
53	The emission wavelength dependent photoluminescence lifetime of the N-doped graphene quantum dots. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	36
54	Bandgap engineering of two-dimensional C <sub>3</sub> N bilayers. <i>Nature Electronics</i> , 2021, 4, 486-494.	26.0	36

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55	Anode coverage for enhanced electrochemical oxidation: a green and efficient strategy towards water-dispersible graphene. <i>Green Chemistry</i> , 2018, 20, 1306-1315.	9.0	35
56	Ultrafast adsorption and selective desorption of aqueous aromatic dyes by graphene sheets modified by graphene quantum dots. <i>Nanotechnology</i> , 2016, 27, 245703.	2.6	33
57	Insights into the Oxidation Mechanism of $sp^2$ - $sp^3$ Hybrid Carbon Materials: Preparation of a Water-Soluble 2D Porous Conductive Network and Detectable Molecule Separation. <i>Langmuir</i> , 2017, 33, 913-919.	3.5	33
58	Robust GQDs Modified Thermally Reduced Graphene Oxide Membranes for Ultrafast and Long-Term Purification of Dye-Wasted Water. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700209.	3.7	33
59	Interface Engineering-Assisted 3D-Graphene/Germanium Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15606-15614.	8.0	33
60	Fabrication of Porous Anodic Alumina with Ultrasmall Nanopores. <i>Nanoscale Research Letters</i> , 2010, 5, 1257-1263.	5.7	32
61	Controllable growth of vertically oriented graphene for high sensitivity gas detection. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5995-6003.	5.5	32
62	Deep ultraviolet emission photoluminescence and high luminescence efficiency of ferric passivated graphene quantum dots: Strong negative inductive effect of Fe. <i>Synthetic Metals</i> , 2015, 209, 468-472.	3.9	31
63	Triphenylphosphine modified graphene quantum dots: spectral modulation for full spectrum of visible light with high quantum yield. <i>RSC Advances</i> , 2015, 5, 33347-33350.	3.6	30
64	Preparation and analysis of anodic aluminum oxide films with continuously tunable inter-pore distances. <i>Applied Surface Science</i> , 2015, 328, 459-465.	6.1	30
65	Green, simple and large scale synthesis of N-doped graphene quantum dots with uniform edge groups by electrochemical bottom-up synthesis. <i>RSC Advances</i> , 2016, 6, 82648-82653.	3.6	30
66	Selective supramolecular interaction of ethylenediamine functionalized graphene quantum dots: Ultra-sensitive photoluminescence detection for nickel ion in vitro. <i>Synthetic Metals</i> , 2018, 244, 106-112.	3.9	30
67	Ultrasound-assisted anodization of aluminum in oxalic acid. <i>Applied Surface Science</i> , 2011, 258, 586-589.	6.1	29
68	Van der Waals epitaxy and characterization of hexagonal boron nitride nanosheets on graphene. <i>Nanoscale Research Letters</i> , 2014, 9, 367.	5.7	29
69	Promising Fast Energy Transfer System Between Graphene Quantum Dots and the Application in Fluorescent Bioimaging. <i>Langmuir</i> , 2019, 35, 760-766.	3.5	29
70	Graphitic carbon nitride nanoribbon for enhanced visible-light photocatalytic $H_2$ production. <i>RSC Advances</i> , 2016, 6, 112210-112214.	3.6	28
71	Green preparation of lattice phosphorus doped graphene quantum dots with tunable emission wavelength for bio-imaging. <i>Materials Letters</i> , 2019, 242, 156-159.	2.6	28
72	AFM, SEM and TEM Studies on Porous Anodic Alumina. <i>Nanoscale Research Letters</i> , 2010, 5, 725-734.	5.7	27

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73	Facile thermal annealing of graphite oxide in air for graphene with a higher C/O ratio. RSC Advances, 2015, 5, 69854-69860.	3.6	27
74	Core-shell SrTiO <sub>3</sub> /graphene structure by chemical vapor deposition for enhanced photocatalytic performance. Applied Surface Science, 2018, 436, 373-381.	6.1	26
75	Effect of ethanol on the fabrication of porous anodic alumina in sulfuric acid. Surface and Coatings Technology, 2014, 254, 398-401.	4.8	24
76	Green and Mild Oxidation: An Efficient Strategy toward Water-Dispersible Graphene. ACS Applied Materials & Interfaces, 2017, 9, 2856-2866.	8.0	24
77	Three-dimensional cross-linking composite of graphene, carbon nanotubes and Si nanoparticles for lithium ion battery anode. Nanotechnology, 2018, 29, 125603.	2.6	24
78	Hydroxyl functionalized carbon dots with strong radical scavenging ability promote cell proliferation. Materials Research Express, 2019, 6, 065030.	1.6	24
79	Controllable Edge Oxidation and Bubbling Exfoliation Enable the Fabrication of High Quality Water Dispersible Graphene. Scientific Reports, 2016, 6, 34127.	3.3	22
80	Electrochemical method for large size and few-layered water-dispersible graphene. Carbon, 2019, 143, 559-563.	10.3	21
81	Graphene Quantum Dot-Decorated Vertically Oriented Graphene/Germanium Heterojunctions for Near-Infrared Photodetectors. ACS Applied Nano Materials, 2020, 3, 6915-6924.	5.0	21
82	Polarizing Graphene Quantum Dots toward Long-Acting Intracellular Reactive Oxygen Species Evaluation and Tumor Detection. ACS Applied Materials & Interfaces, 2020, 12, 10781-10790.	8.0	21
83	One-step combustion synthesis of NiFe <sub>2</sub> O <sub>4</sub> -reduced graphene oxide hybrid materials for photodegradation of methylene blue. Functional Materials Letters, 2014, 07, 1350065.	1.2	20
84	Plasmonic Coupling of AgNPs near Graphene Edges: A Cross-Section Strategy for High-Performance SERS Sensing. Chemistry of Materials, 2020, 32, 3813-3822.	6.7	20
85	Sensitive, Reusable, Surface-Enhanced Raman Scattering Sensors Constructed with a 3D Graphene/Si Hybrid. ACS Applied Materials & Interfaces, 2021, 13, 23081-23091.	8.0	19
86	Photocatalytic Polymerization from Amino Acid to Protein by Carbon Dots at Room Temperature. ACS Applied Bio Materials, 2019, 2, 5144-5153.	4.6	17
87	One-step hydrothermal synthesis of carbon dots-polymer composites with solid-state photoluminescence. Materials Letters, 2019, 238, 22-25.	2.6	17
88	Electrochemically modified graphite for fast preparation of large-sized graphene oxide. Journal of Colloid and Interface Science, 2019, 542, 387-391.	9.4	15
89	Boosting carrier transfer at flexible schottky junctions with moisture: A strategy for high-performance wearable direct-current nanogenerators. Nano Energy, 2021, 90, 106593.	16.0	14
90	Growth of controlled thickness graphene by ion implantation for field-effect transistor. Materials Letters, 2013, 107, 170-173.	2.6	13

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91	Fabrication of centimeter-scale light-emitting diode with improved performance based on graphene quantum dots. <i>Applied Physics Express</i> , 2017, 10, 032102.	2.4	12
92	Highly Active Black TiO <sub>2</sub> /N-doped Graphene Quantum Dots Nanocomposites For Sunlight Driven Photocatalytic Sewage Treatment. <i>ChemistrySelect</i> , 2018, 3, 201-206.	1.5	12
93	Ultra-low noise graphene/copper/nylon fabric for electromagnetic interference shielding in ultra-low field magnetic resonance imaging. <i>Journal of Magnetic Resonance</i> , 2020, 317, 106775.	2.1	12
94	Perovskite quantum dots integrated with vertically aligned graphene toward ambipolar multifunctional photodetectors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 609-619.	5.5	12
95	Direct integration of polycrystalline graphene on silicon as a photodetector via plasma-assisted chemical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9682-9690.	5.5	11
96	Electrochemical Strategy for Flexible and Highly Conductive Carbon Films: The Role of 3-Dimensional Graphene/Graphite Aggregates. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1239-1246.	8.0	11
97	High-performance humidity sensor constructed with vertically aligned graphene arrays on silicon Schottky junctions. <i>Materials Letters</i> , 2020, 277, 128343.	2.6	11
98	Tunable amplified spontaneous emission in graphene quantum dots doped cholesteric liquid crystals. <i>Nanotechnology</i> , 2017, 28, 245202.	2.6	10
99	Near-infrared photodetector based on Schottky junctions of monolayer graphene/GeOI. <i>Materials Letters</i> , 2018, 227, 17-20.	2.6	10
100	Delocalized electrochemical exfoliation toward high-throughput fabrication of high-quality graphene. <i>Chemical Engineering Journal</i> , 2022, 428, 131122.	12.7	10
101	Growth of homogeneous single-layer graphene on Ni-Ge binary substrate. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	9
102	A one-pot strategy for highly efficient preparation of ultra-large graphene oxide. <i>Carbon</i> , 2022, 191, 477-485.	10.3	9
103	Seed-Initiated Synthesis and Tunable Doping Graphene for High-Performance Photodetectors. <i>Advanced Optical Materials</i> , 2019, 7, 1901388.	7.3	7
104	Graphene Quantum Dots Promoted the Synthesis of Heavily n-Type Graphene for Near-Infrared Photodetectors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1674-1680.	3.1	7
105	High-performance near-infrared photodetectors based on C <sub>3</sub> N quantum dots integrated with single-crystal graphene. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1333-1338.	5.5	7
106	Intact Vertical 3D-2D Carbon-Based n Junctions for Use in High-Performance Photodetectors. <i>Advanced Optical Materials</i> , 2021, 9, 2100387.	7.3	7
107	Optimal growth of Ge-rich dots on Si(001) substrates with hexagonal packed pit patterns. <i>Nanotechnology</i> , 2013, 24, 035302.	2.6	6
108	Role of interfacial 2D graphene in high performance 3D graphene/germanium Schottky junction humidity sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14196-14202.	5.5	6

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109	Reduction of nanoparticle deposition during fabrication of porous anodic alumina. <i>Thin Solid Films</i> , 2012, 520, 4321-4325.	1.8	5
110	Barrier-assisted ion beam synthesis of transfer-free graphene on an arbitrary substrate. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	5
111	Selective coordination and localized polarization in graphene quantum dots: Detection of fluoride anions using ultra-low-field NMR relaxometry. <i>Chinese Chemical Letters</i> , 2021, 32, 3921-3926.	9.0	5
112	Oxygen-etchant-promoted synthesis of vertically aligned graphene arrays in a Joule heater and defogger. <i>Diamond and Related Materials</i> , 2021, 120, 108697.	3.9	4
113	Highly solid-luminescent graphitic C <sub>3</sub> N <sub>4</sub> nanotubes for white light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 505503.	2.8	3
114	Self-feedback autocatalysis in free radical triggered photosynthesis of N-doped graphene quantum dots. <i>Synthetic Metals</i> , 2021, 271, 116643.	3.9	3
115	Investigation of a Highly Sensitive Surface-Enhanced Raman Scattering Substrate Formed by a Three-Dimensional/Two-Dimensional Graphene/Germanium Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14764-14773.	8.0	3
116	Direct growth of single-layer graphene on Ni surface manipulated by Si barrier. <i>Applied Physics Letters</i> , 2014, 104, 213101.	3.3	2
117	Dual-enhanced Raman scattering sensors incorporating graphene plasmonic nanoresonators. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12768-12777.	5.5	2
118	Stacking driven Raman spectra change of carbon based 2D semiconductor C <sub>3</sub> N. <i>Chinese Chemical Letters</i> , 2022, 33, 2600-2604.	9.0	2
119	Restrictions of Si-based Ge nanodots from porous alumina membranes. <i>Superlattices and Microstructures</i> , 2013, 60, 73-82.	3.1	1
120	Portable solid rapid quantitative detection for Cu <sup>2+</sup> ions: Tuning the detection range limits of fluorescent conducting polymer dots. <i>Journal of Materials Research</i> , 2017, 32, 1582-1593.	2.6	1
121	Coordinating capillary infiltration with anodic oxidation: a multi-functional strategy for electrochemical fabrication of graphene. <i>RSC Advances</i> , 2020, 10, 43324-43333.	3.6	0