

Jiyang Liu

List of Publications by Year in descending order

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84
papers

4,984
citations

87888

38
h-index

98798

67
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84
all docs

84
docs citations

84
times ranked

5750
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances on Graphene Quantum Dots: From Chemistry and Physics to Applications. <i>Advanced Materials</i> , 2019, 31, e1808283.	21.0	603
2	Systematic Bandgap Engineering of Graphene Quantum Dots and Applications for Photocatalytic Water Splitting and CO ₂ Reduction. <i>ACS Nano</i> , 2018, 12, 3523-3532.	14.6	341
3	Facile synthesis of sulfur-doped graphene quantum dots as fluorescent sensing probes for Ag ⁺ ions detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 231-237.	7.8	194
4	Graphene quantum dots decorated graphitic carbon nitride nanorods for photocatalytic removal of antibiotics. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 56-65.	9.4	148
5	Three-dimensional electrochemical immunosensor for sensitive detection of carcinoembryonic antigen based on monolithic and macroporous graphene foam. <i>Biosensors and Bioelectronics</i> , 2015, 65, 281-286.	10.1	146
6	Graphene quantum dot engineered nickel-cobalt phosphide as highly efficient bifunctional catalyst for overall water splitting. <i>Nano Energy</i> , 2018, 48, 284-291.	16.0	143
7	Nanochannel-Confined Graphene Quantum Dots for Ultrasensitive Electrochemical Analysis of Complex Samples. <i>ACS Nano</i> , 2018, 12, 12673-12681.	14.6	129
8	One-step synthesis of boron-doped graphene quantum dots for fluorescent sensors and biosensor. <i>Talanta</i> , 2019, 199, 581-589.	5.5	112
9	Tailoring the Electronic Properties of Graphene Quantum Dots by P Doping and Their Enhanced Performance in Metal-Free Composite Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2018, 122, 349-358.	3.1	108
10	Facile and scalable preparation of highly luminescent N,S co-doped graphene quantum dots and their application for parallel detection of multiple metal ions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6593-6600.	5.8	106
11	Functionalization of Monolithic and Porous Three-Dimensional Graphene by One-Step Chitosan Electrodeposition for Enzymatic Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19997-20002.	8.0	95
12	Nitrogen-rich graphitic carbon nitride: Controllable nanosheet-like morphology, enhanced visible light absorption and superior photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 508, 257-264.	4.7	94
13	Highly sensitive and selective detection of cancer cell with a label-free electrochemical cytosensor. <i>Biosensors and Bioelectronics</i> , 2013, 41, 436-441.	10.1	93
14	One-pot synthesis of sulfur-doped graphene quantum dots as a novel fluorescent probe for highly selective and sensitive detection of lead(II). <i>RSC Advances</i> , 2016, 6, 69977-69983.	3.6	93
15	Preparation of 2D graphitic carbon nitride nanosheets by a green exfoliation approach and the enhanced photocatalytic performance. <i>Journal of Materials Science</i> , 2017, 52, 13091-13102.	3.7	92
16	Simultaneous label-free and pretreatment-free detection of heavy metal ions in complex samples using electrodes decorated with vertically ordered silica nanochannels. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 364-371.	7.8	86
17	Graphitic carbon nitride/Cu ₂ O heterojunctions: Preparation, characterization, and enhanced photocatalytic activity under visible light. <i>Journal of Solid State Chemistry</i> , 2014, 212, 1-6.	2.9	78
18	Oxygen vacancies confined in Co ₃ O ₄ quantum dots for promoting oxygen evolution electrocatalysis. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2055-2060.	6.0	78

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19	N-doped mesoporous carbon by a hard-template strategy associated with chemical activation and its enhanced supercapacitance performance. <i>Electrochimica Acta</i> , 2017, 238, 269-277.	5.2	71
20	Solvothermal synthesis and enhanced visible light photocatalytic activity of novel graphitic carbon nitride/Bi ₂ MoO ₆ heterojunctions. <i>Powder Technology</i> , 2014, 267, 126-133.	4.2	67
21	Facile surface modification of textiles with photocatalytic carbon nitride nanosheets and the excellent performance for self-cleaning and degradation of gaseous formaldehyde. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 144-153.	9.4	64
22	Quasi-homogeneous carbocatalysis for one-pot selective conversion of carbohydrates to 5-hydroxymethylfurfural using sulfonated graphene quantum dots. <i>Carbon</i> , 2018, 136, 224-233.	10.3	60
23	S-doped graphene quantum dots as nanophotocatalyst for visible light degradation. <i>Chinese Chemical Letters</i> , 2018, 29, 1698-1701.	9.0	59
24	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 20634.	6.7	58
25	Fast one-step fabrication of a vertically-ordered mesoporous silica-nanochannel film on graphene for direct and sensitive detection of doxorubicin in human whole blood. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7113-7119.	5.5	56
26	Amphiphilic graphene quantum dots as a new class of surfactants. <i>Carbon</i> , 2019, 153, 127-135.	10.3	55
27	Synergistic effects of phosphorous/sulfur co-doping and morphological regulation for enhanced photocatalytic performance of graphitic carbon nitride nanosheets. <i>Journal of Materials Science</i> , 2019, 54, 1593-1605.	3.7	52
28	One-step fabrication of novel superhydrophobic and superoleophilic sponge with outstanding absorbency and flame-retardancy for the selective removal of oily organic solvent from water. <i>Applied Surface Science</i> , 2018, 428, 338-347.	6.1	50
29	An electrochemical aptasensor for chiral peptide detection using layer-by-layer assembly of polyelectrolyte-methylene blue/polyelectrolyte-graphene multilayer. <i>Analytica Chimica Acta</i> , 2012, 712, 127-131.	5.4	49
30	Fabrication of metal-free two dimensional/two dimensional homojunction photocatalyst using various carbon nitride nanosheets as building blocks. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 209-216.	9.4	49
31	Graphene quantum dots-assisted exfoliation of graphitic carbon nitride to prepare metal-free zero-dimensional/two-dimensional composite photocatalysts. <i>Journal of Materials Science</i> , 2018, 53, 12103-12114.	3.7	49
32	Tailoring molecular permeability of vertically-ordered mesoporous silica-nanochannel films on graphene for selectively enhanced determination of dihydroxybenzene isomers in environmental water samples. <i>Journal of Hazardous Materials</i> , 2021, 410, 124636.	12.4	49
33	Vertical silica nanochannels supported by nanocarbon composite for simultaneous detection of serotonin and melatonin in biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131101.	7.8	47
34	Novel three-dimensional graphene nanomesh prepared by facile electro-etching for improved electroanalytical performance for small biomolecules. <i>Materials and Design</i> , 2022, 215, 110506.	7.0	47
35	Bipolar silica nanochannel array for dual-mode electrochemiluminescence and electrochemical immunosensing platform. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132086.	7.8	47
36	Sweet graphene quantum dots for imaging carbohydrate receptors in live cells. <i>FlatChem</i> , 2017, 5, 25-32.	5.6	46

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37	Label-free electrochemical aptasensor constructed by layer-by-layer technology for sensitive and selective detection of cancer cells. <i>Analytica Chimica Acta</i> , 2015, 882, 32-37.	5.4	43
38	Graphene quantum dots assisted exfoliation of atomically-thin 2D materials and as-formed OD/2D van der Waals heterojunction for HER. <i>Carbon</i> , 2021, 184, 554-561.	10.3	43
39	The enhanced photocatalytic performance of Z-scheme two-dimensional/two-dimensional heterojunctions from graphitic carbon nitride nanosheets and titania nanosheets. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 263-270.	9.4	42
40	Graphene quantum dots based fluorescence turn-on nanoprobe for highly sensitive and selective imaging of hydrogen sulfide in living cells. <i>Biomaterials Science</i> , 2018, 6, 779-784.	5.4	42
41	Facile preparation of N-doped graphene quantum dots as quick-dry fluorescent ink for anti-counterfeiting. <i>New Journal of Chemistry</i> , 2018, 42, 17091-17095.	2.8	41
42	Electrochemical Sensor Nanoarchitectonics for Sensitive Detection of Uric Acid in Human Whole Blood Based on Screen-Printed Carbon Electrode Equipped with Vertically-Ordered Mesoporous Silica-Nanochannel Film. <i>Nanomaterials</i> , 2022, 12, 1157.	4.1	41
43	Graphene Quantum Dots Decorated Titania Nanosheets Heterojunction: Efficient Charge Separation and Enhanced Visible-Light Photocatalytic Performance. <i>ChemCatChem</i> , 2017, 9, 3349-3357.	3.7	40
44	Highly Efficient Photo-Reduction of <i>p</i> -Nitrophenol by Protonated Graphitic Carbon Nitride Nanosheets. <i>ChemCatChem</i> , 2018, 10, 4747-4754.	3.7	39
45	Enhanced charge separation ability and visible light photocatalytic performance of graphitic carbon nitride by binary S, B co-doping. <i>Materials Research Bulletin</i> , 2018, 107, 477-483.	5.2	39
46	Improved adhesion and performance of vertically-aligned mesoporous silica-nanochannel film on reduced graphene oxide for direct electrochemical analysis of human serum. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 133-140.	7.8	38
47	Mussel-inspired biopolymer modified 3D graphene foam for enzyme immobilization and high performance biosensor. <i>Electrochimica Acta</i> , 2015, 161, 17-22.	5.2	37
48	One-step template/chemical blowing route to synthesize flake-like porous carbon nitride photocatalyst. <i>Materials Research Bulletin</i> , 2017, 94, 423-427.	5.2	36
49	Preparation of biomass-activated porous carbons derived from <i>torreya grandis</i> shell for high-performance supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2241-2249.	2.5	35
50	Gram-scale synthesis of nitrogen doped graphene quantum dots for sensitive detection of mercury ions and <i>L</i> -cysteine. <i>RSC Advances</i> , 2019, 9, 32977-32983.	3.6	35
51	Aqueous synthesis of amphiphilic graphene quantum dots and their application as surfactants for preparing of fluorescent polymer microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 563, 77-83.	4.7	35
52	Phenylboronic acid-functionalized vertically ordered mesoporous silica films for selective electrochemical determination of fluoride ion in tap water. <i>Mikrochimica Acta</i> , 2020, 187, 470.	5.0	35
53	Ultrasensitive Immunosensor for Prostate-Specific Antigen Based on Enhanced Electrochemiluminescence by Vertically Ordered Mesoporous Silica-Nanochannel Film. <i>Frontiers in Chemistry</i> , 2022, 10, 851178.	3.6	35
54	Magnetically separable porous carbon nanospheres as solid acid catalysts. <i>RSC Advances</i> , 2013, 3, 20999.	3.6	31

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55	Dual anions engineering on nickel cobalt-based catalyst for optimal hydrogen evolution electrocatalysis. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 127-134.	9.4	30
56	Multiple pH-responsive graphene composites by non-covalent modification with chitosan. <i>Talanta</i> , 2012, 101, 151-156.	5.5	28
57	Ionic liquid-capped graphene quantum dots as label-free fluorescent probe for direct detection of ferricyanide. <i>Talanta</i> , 2017, 165, 429-435.	5.5	28
58	Vertically-ordered mesoporous silica films on graphene for anti-fouling electrochemical detection of tert-butylhydroquinone in cosmetics and edible oils. <i>Journal of Electroanalytical Chemistry</i> , 2021, 881, 114969.	3.8	28
59	Mimetic biomembrane- <i>“AuNPs”</i> graphene hybrid as matrix for enzyme immobilization and bioelectrocatalysis study. <i>Talanta</i> , 2015, 143, 438-441.	5.5	27
60	Nanochannel Array on Electrochemically Polarized Screen Printed Carbon Electrode for Rapid and Sensitive Electrochemical Determination of Clozapine in Human Whole Blood. <i>Molecules</i> , 2022, 27, 2739.	3.8	27
61	Photo-induced Hydrogel Formation Based on N_3 Nanosheets with Self-Cross-Linked 3D Framework for UV Protection Application. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800500.	3.6	26
62	One-Step Preparation of Nitrogen-Doped Graphene Quantum Dots With Anodic Electrochemiluminescence for Sensitive Detection of Hydrogen Peroxide and Glucose. <i>Frontiers in Chemistry</i> , 2021, 9, 688358.	3.6	25
63	Highly sensitive detection of rutin in pharmaceuticals and human serum using ITO electrodes modified with vertically-ordered mesoporous silica-graphene nanocomposite films. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10630-10636.	5.8	25
64	Reagentless and sensitive determination of carcinoembryonic antigen based on a stable Prussian blue modified electrode. <i>RSC Advances</i> , 2020, 10, 38316-38322.	3.6	23
65	Enzyme Immobilization and Direct Electrochemistry Based on a New Matrix of Phospholipid-Monolayer-Functionalized Graphene. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2824-2829.	3.3	22
66	Facile Pretreatment of Three-Dimensional Graphene through Electrochemical Polarization for Improved Electrocatalytic Performance and Simultaneous Electrochemical Detection of Catechol and Hydroquinone. <i>Nanomaterials</i> , 2022, 12, 65.	4.1	22
67	A simple and rapid electrochemical strategy for non-invasive, sensitive and specific detection of cancerous cell. <i>Talanta</i> , 2013, 104, 122-127.	5.5	21
68	Integration of vertically-ordered mesoporous silica-nanochannel film with electro-activated glassy carbon electrode for improved electroanalysis in complex samples. <i>Talanta</i> , 2021, 225, 122066.	5.5	21
69	Mussel-inspired fabrication of novel superhydrophobic and superoleophilic sponge modified using a high density of nanoaggregates at low concentration of dopamine. <i>RSC Advances</i> , 2016, 6, 71905-71912.	3.6	20
70	Direct electrochemical detection of 4-aminophenol in pharmaceuticals using ITO electrodes modified with vertically-ordered mesoporous silica-nanochannel films. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114568.	3.8	19
71	Trace Iridium Engineering on Nickel Hydroxide Nanosheets as High-Active Catalyst for Overall Water Splitting. <i>ChemCatChem</i> , 2020, 12, 5720-5726.	3.7	19
72	Vertically oriented mesoporous silica film modified fluorine-doped tin oxide electrode for enhanced electrochemiluminescence detection of lidocaine in serum. <i>RSC Advances</i> , 2021, 11, 34669-34675.	3.6	19

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73	Synthesis and application of ternary photocatalyst with a gradient band structure from two-dimensional nanosheets as precursors. <i>RSC Advances</i> , 2016, 6, 108955-108963.	3.6	18
74	Enhanced electrochemical performance of straw-based porous carbon fibers for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3449-3458.	2.5	18
75	Rapid and sensitive determination of doxorubicin in human whole blood by vertically-ordered mesoporous silica film modified electrochemically pretreated glassy carbon electrodes. <i>RSC Advances</i> , 2021, 11, 9021-9028.	3.6	18
76	Sensitive Detection of Sulfide Ion Based on Fluorescent Ionic Liquidâ€“Graphene Quantum Dots Nanocomposite. <i>Frontiers in Chemistry</i> , 2021, 9, 658045.	3.6	16
77	A new method for studying the interaction between chlorpromazine and phospholipid bilayer. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 202-205.	2.1	15
78	Direct and sensitive detection of sulfide ions based on one-step synthesis of ionic liquid functionalized fluorescent carbon nanoribbons. <i>RSC Advances</i> , 2019, 9, 37484-37490.	3.6	14
79	Direct and Sensitive Electrochemical Detection of Bisphenol A in Complex Environmental Samples Using a Simple and Convenient Nanochannel-Modified Electrode. <i>Frontiers in Chemistry</i> , 2022, 10, .	3.6	13
80	Vertically Ordered Mesoporous Silica-Nanochannel Film-Equipped Three-Dimensional Macroporous Graphene as Sensitive Electrochemiluminescence Platform. <i>Frontiers in Chemistry</i> , 2021, 9, 770512.	3.6	11
81	Thermo-driven catalytic degradation of organic dyes by graphitic carbon nitride with hydrogen peroxide. <i>Powder Technology</i> , 2017, 308, 114-122.	4.2	10
82	A reagentless electrochemical immunosensor based on probe immobilization and the layer-by-layer assembly technique for sensitive detection of tumor markers. <i>Analytical Methods</i> , 2015, 7, 9655-9662.	2.7	9
83	SERS imaging for label-free detection of the phospholipids distribution in hybrid lipid membrane. <i>Science China Chemistry</i> , 2011, 54, 1334-1341.	8.2	6
84	SO ₃ H-functionalized mesoporous carbon/silica composite with a spherical morphology and its excellent catalytic performance for biodiesel production. <i>Journal of Porous Materials</i> , 2013, 20, 1423-1431.	2.6	5