

Qian Liu

List of Publications by Year in descending order

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82
papers

5,511
citations

50273

46
h-index

79691

73
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83
all docs

83
docs citations

83
times ranked

7358
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical mesoporous NiCo ₂ O ₄ @MnO ₂ core-shell nanowire arrays on nickel foam for aqueous asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4795.	10.3	355
2	Chain-like NiCo ₂ O ₄ nanowires with different exposed reactive planes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8560.	10.3	250
3	Enhanced non-enzymatic glucose sensing based on copper nanoparticles decorated nitrogen-doped graphene. <i>Biosensors and Bioelectronics</i> , 2014, 54, 273-278.	10.1	215
4	ZnO nanorods on reduced graphene sheets with excellent field emission, gas sensor and photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8445.	10.3	193
5	Design and synthesis of 3D interconnected mesoporous NiCo ₂ O ₄ @Co _x Ni _{1-x} (OH) ₂ core-shell nanosheet arrays with large areal capacitance and high rate performance for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10090.	10.3	174
6	Colorimetric aptasensing of ochratoxin A using Au@Fe ₃ O ₄ nanoparticles as signal indicator and magnetic separator. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1183-1191.	10.1	159
7	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO ₂ nanoparticles. <i>Analytica Chimica Acta</i> , 2015, 853, 258-264.	5.4	148
8	Mechanism analysis of the capacitance contributions and ultralong cycling-stability of the isomorphous MnO ₂ @MnO ₂ core/shell nanostructures for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6168-6176.	10.3	138
9	Label-free impedimetric aptasensor for detection of femtomole level acetamiprid using gold nanoparticles decorated multiwalled carbon nanotube-reduced graphene oxide nanoribbon composites. <i>Biosensors and Bioelectronics</i> , 2015, 70, 122-129.	10.1	127
10	Boosting the Visible-Light Photoactivity of BiOCl/BiVO ₄ /N-GQD Ternary Heterojunctions Based on Internal Z-Scheme Charge Transfer of N-GQDs: Simultaneous Band Gap Narrowing and Carrier Lifetime Prolonging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38832-38841.	8.0	119
11	Amplified impedimetric aptasensor based on gold nanoparticles covalently bound graphene sheet for the picomolar detection of ochratoxin A. <i>Analytica Chimica Acta</i> , 2014, 806, 128-135.	5.4	115
12	Multiple signal-amplification via Ag and TiO ₂ decorated 3D nitrogen doped graphene hydrogel for fabricating sensitive label-free photoelectrochemical thrombin aptasensor. <i>Biosensors and Bioelectronics</i> , 2018, 101, 14-20.	10.1	112
13	Magneto-controlled aptasensor for simultaneous electrochemical detection of dual mycotoxins in maize using metal sulfide quantum dots coated silica as labels. <i>Biosensors and Bioelectronics</i> , 2017, 89, 802-809.	10.1	108
14	AgBr nanoparticles/3D nitrogen-doped graphene hydrogel for fabricating all-solid-state luminol-electrochemiluminescence Escherichia coli aptasensors. <i>Biosensors and Bioelectronics</i> , 2017, 97, 377-383.	10.1	105
15	Nitrogen-Doped Graphene Quantum Dots@SiO ₂ Nanoparticles as Electrochemiluminescence and Fluorescence Signal Indicators for Magnetically Controlled Aptasensor with Dual Detection Channels. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26865-26873.	8.0	104
16	MnO ₂ ultralong nanowires with better electrical conductivity and enhanced supercapacitor performances. <i>Journal of Materials Chemistry</i> , 2012, 22, 14864.	6.7	101
17	Self-assembling hybrid NiO/Co ₃ O ₄ ultrathin and mesoporous nanosheets into flower-like architectures for pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9107.	10.3	101
18	A sensitive Potentiometric resolved ratiometric Photoelectrochemical aptasensor for Escherichia coli detection fabricated with non-metallic nanomaterials. <i>Biosensors and Bioelectronics</i> , 2018, 106, 57-63.	10.1	97

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19	Engineering of Heterojunction-Mediated Biointerface for Photoelectrochemical Aptasensing: Case of Direct Z-Scheme CdTe-Bi ₂ S ₃ Heterojunction with Improved Visible-Light-Driven Photoelectrical Conversion Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18369-18376.	8.0	94
20	Magnetic-fluorescent-targeting multifunctional aptasensor for highly sensitive and one-step rapid detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015, 68, 783-790.	10.1	92
21	Perovskite-type BiFeO ₃ /ultrathin graphite-like carbon nitride nanosheets p-n heterojunction: Boosted visible-light-driven photoelectrochemical activity for fabricating ampicillin aptasensor. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 33-39.	10.1	88
22	Facile one-pot synthesis of visible light-responsive BiPO ₄ /nitrogen doped graphene hydrogel for fabricating label-free photoelectrochemical tetracycline aptasensor. <i>Biosensors and Bioelectronics</i> , 2018, 111, 131-137.	10.1	87
23	Label-free colorimetric aptasensor for sensitive detection of ochratoxin A utilizing hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2015, 860, 83-88.	5.4	86
24	Design of a Dual Channel Self-Reference Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , 2017, 89, 10133-10136.	6.5	86
25	Hierarchical Nanorods of MoS ₂ /MoP Heterojunction for Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2002482.	10.0	85
26	Fabrication of magnetically assembled aptasensing device for label-free determination of aflatoxin B1 based on EIS. <i>Biosensors and Bioelectronics</i> , 2018, 108, 69-75.	10.1	83
27	One-pot synthesis of BiPO ₄ functionalized reduced graphene oxide with enhanced photoelectrochemical performance for selective and sensitive detection of chlorpyrifos. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13671-13678.	10.3	78
28	A new strategy to effectively alleviate volume expansion and enhance the conductivity of hierarchical MnO@C nanocomposites for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21699-21708.	10.3	74
29	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. <i>Analytica Chimica Acta</i> , 2018, 1019, 119-127.	5.4	74
30	Recent developments of photoelectrochemical biosensors for food analysis. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7283-7300.	5.8	72
31	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo ₂ O ₄ electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16731-16739.	10.3	70
32	Ultrasensitive electrochemical aptasensor for ochratoxin A based on two-level cascaded signal amplification strategy. <i>Bioelectrochemistry</i> , 2014, 96, 7-13.	4.6	65
33	An Interface Engineered Multicolor Photodetector Based on n-Si(111)/TiO ₂ Nanorod Array Heterojunction. <i>Advanced Functional Materials</i> , 2016, 26, 1400-1410.	14.9	64
34	MoS ₂ /nitrogen doped graphene hydrogels p-n heterojunction: Efficient charge transfer property for highly sensitive and selective photoelectrochemical analysis of chloramphenicol. <i>Biosensors and Bioelectronics</i> , 2019, 126, 463-469.	10.1	64
35	Enhanced UV-visible light photodetectors with a TiO ₂ /Si heterojunction using band engineering. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12848-12856.	5.5	61
36	Oxygen vacancy enhanced photoelectrochemical performance of Bi ₂ MoO ₆ /B, N co-doped graphene for fabricating lincomycin aptasensor. <i>Biosensors and Bioelectronics</i> , 2019, 135, 145-152.	10.1	60

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37	Design and synthesis of 3D hierarchical NiCo ₂ S ₄ @MnO ₂ core-shell nanosheet arrays for high-performance pseudocapacitors. RSC Advances, 2015, 5, 44642-44647.	3.6	57
38	Enhancing the Electrochemical Performance of Sodium-Ion Batteries by Building Optimized NiS ₂ /NiSe ₂ Heterostructures. Small, 2021, 17, e2104186.	10.0	56
39	Exceptional pseudocapacitive properties of hierarchical NiO ultrafine nanowires grown on mesoporous NiO nanosheets. Journal of Materials Chemistry A, 2014, 2, 12799-12804.	10.3	52
40	One-pot hydrothermal route to fabricate nitrogen doped graphene/Ag-TiO ₂ : Efficient charge separation, and high-performance on-off-switch system based photoelectrochemical biosensing. Biosensors and Bioelectronics, 2016, 83, 149-155.	10.1	51
41	Magnetically Separable Fe ₃ O ₄ Nanoparticles-Decorated Reduced Graphene Oxide Nanocomposite for Catalytic Wet Hydrogen Peroxide Oxidation. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 907-916.	3.7	50
42	Amplified solid-state electrochemiluminescence detection of cholesterol in near-infrared range based on CdTe quantum dots decorated multiwalled carbon nanotubes@reduced graphene oxide nanoribbons. Biosensors and Bioelectronics, 2015, 73, 221-227.	10.1	49
43	Surface Coating Constraint Induced Anisotropic Swelling of Silicon in Si@SiO _x Nanowire Anode for Lithium-Ion Batteries. Small, 2017, 13, 1603754.	10.0	49
44	Nanoparticles Encapsulated in Porous Carbon Matrix Coated on Carbon Fibers: An Ultrastable Cathode for Li-Ion Batteries. Advanced Energy Materials, 2017, 7, 1601363.	19.5	48
45	Hierarchical nanotubes constructed from CoSe ₂ nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15073-15078.	10.3	47
46	CoMoO ₄ ·0.9H ₂ O nanorods grown on reduced graphene oxide as advanced electrochemical pseudocapacitor materials. RSC Advances, 2014, 4, 34307.	3.6	46
47	Fluorescent on-off-switching sensor based on CdTe quantum dots coupled with multiwalled carbon nanotubes@graphene oxide nanoribbons for simultaneous monitoring of dual foreign DNAs in transgenic soybean. Biosensors and Bioelectronics, 2017, 92, 26-32.	10.1	46
48	Simultaneous detection of enrofloxacin and ciprofloxacin in milk using a bias potentials controlling-based photoelectrochemical aptasensor. Journal of Hazardous Materials, 2021, 416, 125988.	12.4	45
49	Carbon-coated mesoporous NiO nanoparticles as an electrode material for high performance electrochemical capacitors. New Journal of Chemistry, 2013, 37, 4031.	2.8	44
50	Preparation of graphene quantum dots based core-satellite hybrid spheres and their use as the ratiometric fluorescence probe for visual determination of mercury(II) ions. Analytica Chimica Acta, 2015, 888, 173-181.	5.4	44
51	Ingenious Dual-Photoelectrode Internal-Driven Self-Powered Sensing Platform for the Power Generation and Simultaneous Microcystin Monitoring Based on the Membrane/Mediator-Free Photofuel Cell. Analytical Chemistry, 2019, 91, 1728-1732.	6.5	42
52	One-pot synthesis of Cd _x Zn _{1-x} S@reduced graphene oxide nanocomposites with improved photoelectrochemical performance for selective determination of Cu ²⁺ . RSC Advances, 2013, 3, 14451.	3.6	38
53	Synchronized purification and immobilization of his-tagged β -glucosidase via Fe ₃ O ₄ /PMG core/shell magnetic nanoparticles. Scientific Reports, 2017, 7, 41741.	3.3	38
54	One-Step Low-Temperature Molten Salt Synthesis of Two-Dimensional Si@SiO _x @C Hybrids for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 55844-55855.	8.0	36

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55	Photoelectrochemical aptasensor for sensitive detection of tetracycline in soil based on CdTe-BiOBr heterojunction: Improved photoactivity enabled by Z-scheme electron transfer pathway. <i>Journal of Hazardous Materials</i> , 2022, 424, 127498.	12.4	36
56	Immobilization of cellulase on thermo-sensitive magnetic microspheres: improved stability and reproducibility. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1051-1060.	3.4	34
57	Facile Preparation of Unsubstituted Iron(II) Phthalocyanine/Carbon Nitride Nanocomposites: A Multipurpose Catalyst with Reciprocally Enhanced Photo/Electrocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3319-3328.	6.7	33
58	Reactable ionic liquid assisted preparation of porous Co ₃ O ₄ nanostructures with enhanced supercapacitive performance. <i>CrystEngComm</i> , 2014, 16, 2395.	2.6	32
59	Photoelectrochemical CaMV35S biosensor for discriminating transgenic from non-transgenic soybean based on SiO ₂ @CdTe quantum dots core-shell nanoparticles as signal indicators. <i>Talanta</i> , 2016, 161, 211-218.	5.5	32
60	Fabrication of L-cysteine-capped CdTe quantum dots based ratiometric fluorescence nanosensor for onsite visual determination of trace TNT explosive. <i>Analytica Chimica Acta</i> , 2016, 946, 80-87.	5.4	29
61	A novel universal colorimetric sensor for simultaneous dual target detection through DNA-directed self-assembly of graphene oxide and magnetic separation. <i>Chemical Communications</i> , 2017, 53, 7096-7099.	4.1	29
62	A homogeneous assay for highly sensitive detection of CaMV35S promoter in transgenic soybean by Förster resonance energy transfer between nitrogen-doped graphene quantum dots and Ag nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 948, 90-97.	5.4	28
63	Stabilizing Lithium-Sulfur Batteries through Control of Sulfur Aggregation and Polysulfide Dissolution. <i>Small</i> , 2018, 14, e1703816.	10.0	28
64	Horseradish peroxidase immobilized on the magnetic composite microspheres for high catalytic ability and operational stability. <i>Enzyme and Microbial Technology</i> , 2019, 122, 26-35.	3.2	28
65	Amplified photocurrent signal for fabricating photoelectrochemical sulfadimethoxine aptasensor based on carbon nitride photosensitization with visible/near-infrared light responsive zinc phthalocyanine. <i>Journal of Hazardous Materials</i> , 2021, 406, 124749.	12.4	28
66	In situ transmission electron microscopy study of individual nanostructures during lithiation and delithiation processes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20072-20094.	10.3	27
67	Reversible formation of networked porous Sb nanoparticles during cycling: Sb nanoparticles encapsulated in a nitrogen-doped carbon matrix with nanorod structures for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24292-24300.	10.3	23
68	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles. <i>Journal of Hazardous Materials</i> , 2022, 434, 128877.	12.4	20
69	Visible light-driven photoelectrochemical ampicillin aptasensor based on an artificial Z-scheme constructed from Ru(bpy) ₃ ²⁺ -sensitized BiOI microspheres. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112771.	10.1	19
70	Hydrothermal control growth of Zn ₂ GeO ₄ diethylenetriamine 3D dumbbell-like nanobundles. <i>CrystEngComm</i> , 2014, 16, 3222.	2.6	17
71	Signal on-off electrochemiluminescence pentachlorophenol sensor based on luminol-MWCNTs@graphene oxide nanoribbons system. <i>Talanta</i> , 2015, 134, 448-452.	5.5	16
72	Red Phosphorus Anchored on Nitrogen-Doped Carbon Bubble-Carbon Nanotube Network for Highly Stable and Fast-Charging Lithium-Ion Batteries. <i>Small</i> , 2022, 18, e2105866.	10.0	16

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73	Molten Au/Ge Alloy Migration in Ge Nanowires. <i>Nano Letters</i> , 2015, 15, 2809-2816.	9.1	15
74	Enhanced electrochemiluminescence sensing platform using nitrogen-doped graphene as a novel two-dimensional mat of silver nanoparticles. <i>Talanta</i> , 2015, 132, 146-149.	5.5	15
75	Multifunctional NiCo ₂ O ₄ nanosheet-assembled hollow nanoflowers as a highly efficient sulfur host for lithium-sulfur batteries. <i>Dalton Transactions</i> , 2020, 49, 6876-6883.	3.3	13
76	Ethanol gas sensor based on a self-supporting hierarchical SnO ₂ nanorods array. <i>CrystEngComm</i> , 2015, 17, 1800-1804.	2.6	12
77	Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. <i>Mikrochimica Acta</i> , 2016, 183, 1591-1599.	5.0	12
78	Enhanced conductivity and structure stability of BiPO ₄ @C/CNT particles for high-performance bismuth-based batteries. <i>Dalton Transactions</i> , 2020, 49, 5636-5645.	3.3	9
79	A facile approach for the synthesis of Cu ₂ x Se nanowires and their field emission properties. <i>Journal of Materials Science</i> , 2014, 49, 532-537.	3.7	6
80	Simultaneous detection of TNOS and P35S in transgenic soybean based on magnetic bicolor fluorescent probes. <i>Talanta</i> , 2020, 212, 120764.	5.5	6
81	Improving the cycling stability of lithium-sulfur batteries by hollow dual-shell coating. <i>RSC Advances</i> , 2018, 8, 9161-9167.	3.6	3
82	Co _{0.85} Se particles encapsulated in the inner wall of nitrogen-doped carbon matrix nanotubes with rational interfacial bonds for high-performance lithium-ion batteries. <i>Dalton Transactions</i> , 2021, 50, 11458-11465.	3.3	3