Qian Liu

List of Publications by Year in Descending Order

82 papers	4,296 citations	40 h-index	64 g-index
83 ext. papers	4,878 ext. citations	9.1 avg, IF	5.6 L-index

#	Paper	IF	Citations
82	Photoelectrochemical aptasensor for sensitive detection of tetracycline in soil based on CdTe-BiOBr heterojunction: Improved photoactivity enabled by Z-scheme electron transfer pathway. *Journal of Hazardous Materials*, **2022**, 424, 127498	12.8	6
81	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles.. *Journal of Hazardous Materials*, **2022**, 434, 128877	12.8	3
80	Enhancing the Electrochemical Performance of Sodium-Ion Batteries by Building Optimized NiS /NiSe Heterostructures. *Small*, **2021**, 17, e2104186	11	9
79	Amplified photocurrent signal for fabricating photoelectrochemical sulfadimethoxine aptasensor based on carbon nitride photosensitization with visible/near-infrared light responsive zinc phthalocyanine. *Journal of Hazardous Materials*, **2021**, 406, 124749	12.8	6
78	CoSe particles encapsulated in the inner wall of nitrogen-doped carbon matrix nanotubes with rational interfacial bonds for high-performance lithium-ion batteries. *Dalton Transactions*, **2021**, 50, 11458-11465	4.3	8
77	Simultaneous detection of enrofloxacin and ciprofloxacin in milk using a bias potentials controlling-based photoelectrochemical aptasensor. *Journal of Hazardous Materials*, **2021**, 416, 125988	12.8	9
76	Red Phosphorus Anchored on Nitrogen-Doped Carbon Bubble-Carbon Nanotube Network for Highly Stable and Fast-Charging Lithium-Ion Batteries. *Small*, **2021**, e2105866	11	2
75	Hierarchical Nanorods of MoS /MoP Heterojunction for Efficient Electrocatalytic Hydrogen Evolution Reaction. *Small*, **2020**, 16, e2002482	11	35
74	Simultaneous detection of TNOS and P35S in transgenic soybean based on magnetic bicolor fluorescent probes. *Talanta*, **2020**, 212, 120764	6.2	3
73	One-Step Low-Temperature Molten Salt Synthesis of Two-Dimensional Si@SiO@C Hybrids for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 55844-55855	9.5	9
72	Multifunctional NiCoO nanosheet-assembled hollow nanoflowers as a highly efficient sulfur host for lithium-sulfur batteries. *Dalton Transactions*, **2020**, 49, 6876-6883	4.3	6
71	Enhanced conductivity and structure stability of BiPO@void@C/CNT particles for high-performance bismuth-based batteries. *Dalton Transactions*, **2020**, 49, 5636-5645	4.3	4
70	Visible light-driven photoelectrochemical ampicillin aptasensor based on an artificial Z-scheme constructed from Ru(bpy)-sensitized BiOI microspheres. *Biosensors and Bioelectronics*, **2020**, 173, 112771	11.8	12
69	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. *Journal of Materials Chemistry A*, **2019**, 7, 24292-24300	13	16
68	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	7.8	27
67	Hierarchical nanotubes constructed from CoSe2 nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 15073-15078	13	32
66	Oxygen vacancy enhanced photoelectrochemical performance of BiMoO/B, N co-doped graphene for fabricating lincomycin aptasensor. *Biosensors and Bioelectronics*, **2019**, 135, 145-152	11.8	29

65	Recent developments of photoelectrochemical biosensors for food analysis. *Journal of Materials Chemistry B*, **2019**, 7, 7283-7300	7.3	41
64	Horseradish peroxidase immobilized on the magnetic composite microspheres for high catalytic ability and operational stability. *Enzyme and Microbial Technology*, **2019**, 122, 26-35	3.8	21
63	MoS/nitrogen doped graphene hydrogels p-n heterojunction: Efficient charge transfer property for highly sensitive and selective photoelectrochemical analysis of chloramphenicol. *Biosensors and Bioelectronics*, **2019**, 126, 463-469	11.8	40
62	Facile Preparation of Unsubstituted Iron(II) Phthalocyanine/Carbon Nitride Nanocomposites: A Multipurpose Catalyst with Reciprocally Enhanced Photo/Electrocatalytic Activity. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3319-3328	8.3	16
61	Perovskite-type BiFeO/ultrathin graphite-like carbon nitride nanosheets p-n heterojunction: Boosted visible-light-driven photoelectrochemical activity for fabricating ampicillin aptasensor. *Biosensors and Bioelectronics*, **2019**, 124-125, 33-39	11.8	62
60	Improving the cycling stability of lithium-sulfur batteries by hollow dual-shell coating.. *RSC Advances*, **2018**, 8, 9161-9167	3.7	3
59	A sensitive Potentiometric resolved ratiometric Photoelectrochemical aptasensor for Escherichia coli detection fabricated with non-metallic nanomaterials. *Biosensors and Bioelectronics*, **2018**, 106, 57-63	11.8	64
58	Immobilization of cellulase on thermo-sensitive magnetic microspheres: improved stability and reproducibility. *Bioprocess and Biosystems Engineering*, **2018**, 41, 1051-1060	3.7	22
57	Stabilizing Lithium-Sulfur Batteries through Control of Sulfur Aggregation and Polysulfide Dissolution. *Small*, **2018**, 14, e1703816	11	25
56	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. *Analytica Chimica Acta*, **2018**, 1019, 119-127	6.6	55
55	Facile one-pot synthesis of visible light-responsive BiPO/nitrogen doped graphene hydrogel for fabricating label-free photoelectrochemical tetracycline aptasensor. *Biosensors and Bioelectronics*, **2018**, 111, 131-137	11.8	65
54	Fabrication of magnetically assembled aptasensing device for label-free determination of aflatoxin B1 based on EIS. *Biosensors and Bioelectronics*, **2018**, 108, 69-75	11.8	61
53	Multiple signal-amplification via Ag and TiO decorated 3D nitrogen doped graphene hydrogel for fabricating sensitive label-free photoelectrochemical thrombin aptasensor. *Biosensors and Bioelectronics*, **2018**, 101, 14-20	11.8	100
52	Synchronized purification and immobilization of his-tagged glucosidase via FeO/PMG core/shell magnetic nanoparticles. *Scientific Reports*, **2017**, 7, 41741	4.9	31
51	Surface Coating Constraint Induced Anisotropic Swelling of Silicon in Si-Void@SiO Nanowire Anode for Lithium-Ion Batteries. *Small*, **2017**, 13, 1603754	11	38
50	Fluorescent "on-off-on" 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	11.8	39
49	Engineering of Heterojunction-Mediated Biointerface for Photoelectrochemical Aptasensing: Case of Direct Z-Scheme CdTe-BiS Heterojunction with Improved Visible-Light-Driven Photoelectrical Conversion Efficiency. *ACS Applied Materials & Interfaces*, **2017**, 9, 18369-18376	9.5	79
48	AgBr nanoparticles/3D nitrogen-doped graphene hydrogel for fabricating all-solid-state luminol-electrochemiluminescence Escherichia coli aptasensors. *Biosensors and Bioelectronics*, **2017**, 97, 377-383	11.8	81

47	A novel universal colorimetric sensor for simultaneous dual target detection through DNA-directed self-assembly of graphene oxide and magnetic separation. *Chemical Communications*, **2017**, 53, 7096-7099	5.8	27
46	Boosting the Visible-Light Photoactivity of BiOCl/BiVO/N-GQD Ternary Heterojunctions Based on Internal Z-Scheme Charge Transfer of N-GQDs: Simultaneous Band Gap Narrowing and Carrier Lifetime Prolonging. *ACS Applied Materials & Interfaces*, **2017**, 9, 38832-38841	9.5	92
45	In situ transmission electron microscopy study of individual nanostructures during lithiation and delithiation processes. *Journal of Materials Chemistry A*, **2017**, 5, 20072-20094	13	23
44	A new strategy to effectively alleviate volume expansion and enhance the conductivity of hierarchical MnO@C nanocomposites for lithium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 21699-21708	13	47
43	Design of a Dual Channel Self-Reference Photoelectrochemical Biosensor. *Analytical Chemistry*, **2017**, 89, 10133-10136	7.8	73
42	Enhanced UV-visible light photodetectors with a TiO2/Si heterojunction using band engineering. *Journal of Materials Chemistry C*, **2017**, 5, 12848-12856	7.1	44
41	Magneto-controlled aptasensor for simultaneous electrochemical detection of dual mycotoxins in maize using metal sulfide quantum dots coated silica as labels. *Biosensors and Bioelectronics*, **2017**, 89, 802-809	11.8	85
40	Nanoparticles Encapsulated in Porous Carbon Matrix Coated on Carbon Fibers: An Ultrastable Cathode for Li-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1601363	21.8	39
39	Photoelectrochemical CaMV35S biosensor for discriminating transgenic from non-transgenic soybean based on SiO@CdTe quantum dots core-shell nanoparticles as signal indicators. *Talanta*, **2016**, 161, 211-218	6.2	25
38	A homogeneous assay for highly sensitive detection of CaMV35S promoter in transgenic soybean by f□ster resonance energy transfer between nitrogen-doped graphene quantum dots and Ag nanoparticles. *Analytica Chimica Acta*, **2016**, 948, 90-97	6.6	19
37	Colorimetric aptasensing of ochratoxin A using Au@Fe3O4 nanoparticles as signal indicator and magnetic separator. *Biosensors and Bioelectronics*, **2016**, 77, 1183-91	11.8	122
36	An Interface Engineered Multicolor Photodetector Based on n-Si(111)/TiO2 Nanorod Array Heterojunction. *Advanced Functional Materials*, **2016**, 26, 1400-1410	15.6	49
35	Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. *Mikrochimica Acta*, **2016**, 183, 1591-1599	5.8	12
34	One-pot hydrothermal route to fabricate nitrogen doped graphene/Ag-TiO2: Efficient charge separation, and high-performance "on-off-on" switch system based photoelectrochemical biosensing. *Biosensors and Bioelectronics*, **2016**, 83, 149-55	11.8	43
33	Fabrication of l-cysteine-capped CdTe quantum dots based ratiometric fluorescence nanosensor for onsite visual determination of trace TNT explosive. *Analytica Chimica Acta*, **2016**, 946, 80-87	6.6	25
32	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	11.8	37
31	Label-free impedimetric aptasensor for detection of femtomole level acetamiprid using gold nanoparticles decorated multiwalled carbon nanotube-reduced graphene oxide nanoribbon composites. *Biosensors and Bioelectronics*, **2015**, 70, 122-9	11.8	107
30	Magnetic-fluorescent-targeting multifunctional aptasensorfor highly sensitive and one-step rapid detection of ochratoxin A. *Biosensors and Bioelectronics*, **2015**, 68, 783-790	11.8	83

29	Design and synthesis of 3D hierarchical NiCo2S4@MnO2 core–shell nanosheet arrays for high-performance pseudocapacitors. *RSC Advances*, **2015**, 5, 44642-44647	3.7	52
28	Mechanism analysis of the capacitance contributions and ultralong cycling-stability of the isomorphous MnO2@MnO2 core/shell nanostructures for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 6168-6176	13	103
27	Molten Au/Ge alloy migration in Ge nanowires. *Nano Letters*, **2015**, 15, 2809-16	11.5	11
26	Nitrogen-Doped Graphene Quantum Dots@SiO2 Nanoparticles as Electrochemiluminescence and Fluorescence Signal Indicators for Magnetically Controlled Aptasensor with Dual Detection Channels. *ACS Applied Materials & Interfaces*, **2015**, 7, 26865-73	9.5	80
25	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, 173-81	6.6	40
24	"Signal on" electrochemiluminescence pentachlorophenol sensor based on luminol-MWCNTs@graphene oxide nanoribbons system. *Talanta*, **2015**, 134, 448-452	6.2	15
23	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO2 nanoparticles. *Analytica Chimica Acta*, **2015**, 853, 258-264	6.6	122
22	Enhanced electrochemiluminescence sensing platform using nitrogen-doped graphene as a novel two-dimensional mat of silver nanoparticles. *Talanta*, **2015**, 132, 146-9	6.2	10
21	One-pot synthesis of BiPO4 functionalized reduced graphene oxide with enhanced photoelectrochemical performance for selective and sensitive detection of chlorpyrifos. *Journal of Materials Chemistry A*, **2015**, 3, 13671-13678	13	64
20	Ethanol gas sensor based on a self-supporting hierarchical SnO2 nanorods array. *CrystEngComm*, **2015**, 17, 1800-1804	3.3	12
19	Label-free colorimetric aptasensor for sensitive detection of ochratoxin A utilizing hybridization chain reaction. *Analytica Chimica Acta*, **2015**, 860, 83-8	6.6	74
18	Hierarchical mesoporous NiCo2O4@MnO2 core–shell nanowire arrays on nickel foam for aqueous asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 4795	13	315
17	Amplified impedimetric aptasensor based on gold nanoparticles covalently bound graphene sheet for the picomolar detection of ochratoxin A. *Analytica Chimica Acta*, **2014**, 806, 128-35	6.6	108
16	Ultrasensitive electrochemical aptasensor for ochratoxin A based on two-level cascaded signal amplification strategy. *Bioelectrochemistry*, **2014**, 96, 7-13	5.6	61
15	Enhanced non-enzymatic glucose sensing based on copper nanoparticles decorated nitrogen-doped graphene. *Biosensors and Bioelectronics*, **2014**, 54, 273-8	11.8	192
14	CoMoO4·0.9H2O nanorods grown on reduced graphene oxide as advanced electrochemical pseudocapacitor materials. *RSC Advances*, **2014**, 4, 34307	3.7	43
13	Design and synthesis of 3D interconnected mesoporous NiCo2O4@CoxNi1−x(OH)2 core–shell nanosheet arrays with large areal capacitance and high rate performance for supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 10090	13	146
12	Reactable ionic liquid assisted preparation of porous Co3O4 nanostructures with enhanced supercapacitive performance. *CrystEngComm*, **2014**, 16, 2395	3.3	28

11	Hydrothermal control growth of Zn2GeO4□diethylenetriamine 3D dumbbell-like nanobundles. *CrystEngComm*, **2014**, 16, 3222	3.3	16
10	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo2O4 electrodes. *Journal of Materials Chemistry A*, **2014**, 2, 16731-16739	13	58
9	Exceptional pseudocapacitive properties of hierarchical NiO ultrafine nanowires grown on mesoporous NiO nanosheets. *Journal of Materials Chemistry A*, **2014**, 2, 12799-12804	13	44
8	A facile approach for the synthesis of Cu2□ Se nanowires and their field emission properties. *Journal of Materials Science*, **2014**, 49, 532-537	4.3	5
7	Magnetically Separable Fe3O4 Nanoparticles-Decorated Reduced Graphene Oxide Nanocomposite for Catalytic Wet Hydrogen Peroxide Oxidation. *Journal of Inorganic and Organometallic Polymers and Materials*, **2013**, 23, 907-916	3.2	45
6	One-pot synthesis of CdxZn1□xS□educed graphene oxide nanocomposites with improved photoelectrochemical performance for selective determination of Cu2+. *RSC Advances*, **2013**, 3, 14451	3.7	34
5	Carbon-coated mesoporous NiO nanoparticles as an electrode material for high performance electrochemical capacitors. *New Journal of Chemistry*, **2013**, 37, 4031	3.6	39
4	ZnO nanorods on reduced graphene sheets with excellent field emission, gas sensor and photocatalytic properties. *Journal of Materials Chemistry A*, **2013**, 1, 8445	13	181
3	Chain-like NiCo2O4 nanowires with different exposed reactive planes for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 8560	13	217
2	Self-assembling hybrid NiO/Co3O4 ultrathin and mesoporous nanosheets into flower-like architectures for pseudocapacitance. *Journal of Materials Chemistry A*, **2013**, 1, 9107	13	91
1	MnO2 ultralong nanowires with better electrical conductivity and enhanced supercapacitor performances. *Journal of Materials Chemistry*, **2012**, 22, 14864		87