

Zhixin Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,814
citations

236833

25
h-index

276775

41
g-index

41
all docs

41
docs citations

41
times ranked

3738
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. <i>Chemical Society Reviews</i> , 2018, 47, 2298-2321.	18.7	488
2	Dissolution and Liquid Crystals Phase of 2D Polymeric Carbon Nitride. <i>Journal of the American Chemical Society</i> , 2015, 137, 2179-2182.	6.6	304
3	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. <i>ACS Nano</i> , 2015, 9, 12480-12487.	7.3	251
4	Reversible Assembly of Graphitic Carbon Nitride 3D Network for Highly Selective Dyes Absorption and Regeneration. <i>ACS Nano</i> , 2016, 10, 9036-9043.	7.3	161
5	Stimuli-responsive metal-organic framework nanoparticles for controlled drug delivery and medical applications. <i>Chemical Society Reviews</i> , 2021, 50, 4541-4563.	18.7	156
6	Environment-friendly preparation of porous graphite-phase polymeric carbon nitride using calcium carbonate as templates, and enhanced photoelectrochemical activity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5126-5131.	5.2	142
7	Chemically Modulated Carbon Nitride Nanosheets for Highly Selective Electrochemiluminescent Detection of Multiple Metal-ions. <i>Analytical Chemistry</i> , 2016, 88, 6004-6010.	3.2	137
8	Electrochemiluminescence resonance energy transfer between graphene quantum dots and gold nanoparticles for DNA damage detection. <i>Analyst</i> , 2014, 139, 2404-2410.	1.7	107
9	DNA Tetrahedra Modules as Versatile Optical Sensing Platforms for Multiplexed Analysis of miRNAs, Endonucleases, and Aptamer-Ligand Complexes. <i>ACS Nano</i> , 2020, 14, 9021-9031.	7.3	90
10	Potential-Modulated Electrochemiluminescence of Carbon Nitride Nanosheets for Dual-Signal Sensing of Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23672-23678.	4.0	86
11	Spatiotemporal patterning of photoresponsive DNA-based hydrogels to tune local cell responses. <i>Nature Communications</i> , 2021, 12, 2364.	5.8	63
12	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 21577-21594.	6.6	56
13	Dissipative Gated and Cascaded DNA Networks. <i>Journal of the American Chemical Society</i> , 2021, 143, 5071-5079.	6.6	55
14	Coupling multiphase-Fe and hierarchical N-doped graphitic carbon as trifunctional electrocatalysts by supramolecular preorganization of precursors. <i>Chemical Communications</i> , 2017, 53, 2044-2047.	2.2	49
15	Anti-VEGF Aptamer Modified Cd-Dots-A Hybrid Nanocomposite for Topical Treatment of Ocular Vascular Disorders. <i>Small</i> , 2019, 15, e1902776.	5.2	49
16	Coupled Fluorometer-Potentiostat System and Metal-Free Monochromatic Luminophores for High-Resolution Wavelength-Resolved Electrochemiluminescent Multiplex Bioassay. <i>ACS Sensors</i> , 2018, 3, 1362-1367.	4.0	47
17	DNA-responsive disassembly of AuNP aggregates: influence of nonbase-paired regions and colorimetric DNA detection by exonuclease III aided amplification. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2851.	2.9	45
18	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. <i>Journal of the American Chemical Society</i> , 2018, 140, 12077-12089.	6.6	44

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19	Comparison Study of the Photoelectrochemical Activity of Carbon Nitride with Different Photoelectrode Configurations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22287-22294.	4.0	41
20	Controlling the Catalytic and Optical Properties of Aggregated Nanoparticles or Semiconductor Quantum Dots Using DNA-Based Constitutional Dynamic Networks. <i>ACS Nano</i> , 2018, 12, 10725-10735.	7.3	41
21	Near-infrared light-activated membrane fusion for cancer cell therapeutic applications. <i>Chemical Science</i> , 2020, 11, 5592-5600.	3.7	35
22	Triggered Dimerization and Trimerization of DNA Tetrahedra for Multiplexed miRNA Detection and Imaging of Cancer Cells. <i>Small</i> , 2021, 17, e2007355.	5.2	34
23	Synthesis of B-doped hollow carbon spheres as efficient non-metal catalyst for oxygen reduction reaction. <i>RSC Advances</i> , 2015, 5, 52126-52131.	1.7	33
24	DNAzyme- and light-induced dissipative and gated DNA networks. <i>Chemical Science</i> , 2021, 12, 11204-11212.	3.7	32
25	Non-covalent pre-organization of molecular precursors: A facile approach for engineering structures and activities of pyrolyzed Co-N-C electrocatalysts. <i>Carbon</i> , 2019, 144, 312-320.	5.4	28
26	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. <i>Nano Letters</i> , 2018, 18, 2718-2724.	4.5	26
27	MicroRNA-Guided Selective Release of Loads from Micro-/Nanocarriers Using Auxiliary Constitutional Dynamic Networks. <i>ACS Nano</i> , 2020, 14, 1482-1491.	7.3	25
28	Triggered Interconversion of Dynamic Networks Composed of DNA-Tetrahedra Nanostructures. <i>Nano Letters</i> , 2019, 19, 7540-7547.	4.5	24
29	Application of capillary electrophoresis coupling with electrochemiluminescence detection to estimate activity of leucine aminopeptidase. <i>Biomedical Chromatography</i> , 2013, 27, 946-952.	0.8	19
30	DNA-based constitutional dynamic networks as functional modules for logic gates and computing circuit operations. <i>Chemical Science</i> , 2021, 12, 5473-5483.	3.7	19
31	Mimicking Functions of Native Enzymes or Photosynthetic Reaction Centers by Nucleoapzymes and Photonucleoapzymes. <i>Biochemistry</i> , 2021, 60, 956-965.	1.2	15
32	Dictated Emergence of Nucleic Acid-Based Constitutional Dynamic Networks by DNA Replication Machineries. <i>Journal of the American Chemical Society</i> , 2021, 143, 241-251.	6.6	15
33	Modeling Gene Expression Instability by Programmed and Switchable Polymerization/Nicking DNA Nanomachineries. <i>ACS Nano</i> , 2020, 14, 5046-5052.	7.3	14
34	Photosensitized H ₂ Evolution and NADPH Formation by Photosensitizer/Carbon Nitride Hybrid Nanoparticles. <i>Nano Letters</i> , 2019, 19, 9121-9130.	4.5	13
35	Gated Dissipative Dynamic Artificial Photosynthetic Model Systems. <i>Journal of the American Chemical Society</i> , 2021, 143, 12120-12128.	6.6	13
36	Gated Transient Dissipative Dimerization of DNA Tetrahedra Nanostructures for Programmed DNAzymes Catalysis. <i>ACS Nano</i> , 2022, 16, 3625-3636.	7.3	13

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37	Programmed catalysis within stimuli-responsive mechanically unlocked nanocavities in DNA origami tiles. <i>Chemical Science</i> , 2021, 12, 341-351.	3.7	12
38	Nitrogen-doped porous carbon with a hierarchical structure prepared for a high performance symmetric supercapacitor. <i>RSC Advances</i> , 2016, 6, 101988-101994.	1.7	9
39	Application of DNA Machineries for the Barcode Patterned Detection of Genes or Proteins. <i>Analytical Chemistry</i> , 2018, 90, 6468-6476.	3.2	9
40	Label-free DNA detection based on oligonucleotide-stabilized silver nanoclusters and exonuclease III-catalyzed target recycling amplification. <i>Analytical Methods</i> , 2014, 6, 6082-6087.	1.3	7
41	Polymeric carbon nitride-based materials: Rising stars in bioimaging. <i>Biosensors and Bioelectronics</i> , 2022, 211, 114370.	5.3	7