Zhixin Zhou

List of Publications by Year
in descending order

41 papers	2,814 citations	236612 25 h-index	276539 41 g-index
41 all docs	41 docs citations	41 times ranked	3738 citing authors

#	Article	IF	Citations
1	Gated Transient Dissipative Dimerization of DNA Tetrahedra Nanostructures for Programmed DNAzymes Catalysis. ACS Nano, 2022, 16, 3625-3636.	7.3	13
2	Polymeric carbon nitride-based materials: Rising stars in bioimaging. Biosensors and Bioelectronics, 2022, 211, 114370.	5.3	7
3	Programmed catalysis within stimuli-responsive mechanically unlocked nanocavities in DNA origami tiles. Chemical Science, 2021, 12, 341-351.	3.7	12
4	Mimicking Functions of Native Enzymes or Photosynthetic Reaction Centers by Nucleoapzymes and Photonucleoapzymes. Biochemistry, 2021, 60, 956-965.	1.2	15
5	Dictated Emergence of Nucleic Acid-Based Constitutional Dynamic Networks by DNA Replication Machineries. Journal of the American Chemical Society, 2021, 143, 241-251.	6.6	15
6	DNAzyme- and light-induced dissipative and gated DNA networks. Chemical Science, 2021, 12, 11204-11212.	3.7	32
7	DNA-based constitutional dynamic networks as functional modules for logic gates and computing circuit operations. Chemical Science, 2021, 12, 5473-5483.	3.7	19
8	Stimuli-responsive metal–organic framework nanoparticles for controlled drug delivery and medical applications. Chemical Society Reviews, 2021, 50, 4541-4563.	18.7	156
9	Triggered Dimerization and Trimerization of DNA Tetrahedra for Multiplexed miRNA Detection and Imaging of Cancer Cells. Small, 2021, 17, e2007355.	5.2	34
10	Dissipative Gated and Cascaded DNA Networks. Journal of the American Chemical Society, 2021, 143, 5071-5079.	6.6	55
11	Spatiotemporal patterning of photoresponsive DNA-based hydrogels to tune local cell responses. Nature Communications, 2021, 12, 2364.	5.8	63
12	Gated Dissipative Dynamic Artificial Photosynthetic Model Systems. Journal of the American Chemical Society, 2021, 143, 12120-12128.	6.6	13
13	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. Journal of the American Chemical Society, 2020, 142, 21577-21594.	6.6	56
14	Near-infrared light-activated membrane fusion for cancer cell therapeutic applications. Chemical Science, 2020, 11, 5592-5600.	3.7	35
15	DNA Tetrahedra Modules as Versatile Optical Sensing Platforms for Multiplexed Analysis of miRNAs, Endonucleases, and Aptamer–Ligand Complexes. ACS Nano, 2020, 14, 9021-9031.	7.3	90
16	MicroRNA-Guided Selective Release of Loads from Micro-/Nanocarriers Using Auxiliary Constitutional Dynamic Networks. ACS Nano, 2020, 14, 1482-1491.	7.3	25
17	Modeling Gene Expression Instability by Programmed and Switchable Polymerization/Nicking DNA Nanomachineries. ACS Nano, 2020, 14, 5046-5052.	7.3	14
18	Anti–VEGF–Aptamer Modified C–Dots–A Hybrid Nanocomposite for Topical Treatment of Ocular Vascular Disorders. Small, 2019, 15, e1902776.	5.2	49

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19	Triggered Interconversion of Dynamic Networks Composed of DNA-Tetrahedra Nanostructures. Nano Letters, 2019, 19, 7540-7547.	4.5	24
20	Photosensitized H_2 Evolution and NADPH Formation by Photosensitizer/Carbon Nitride Hybrid Nanoparticles. Nano Letters, 2019, 19, 9121-9130.	4.5	13
21	Non-covalent pre-organization of molecular precursors: A facile approach for engineering structures and activities of pyrolyzed Co-N-CÂelectrocatalysts. Carbon, 2019, 144, 312-320.	5.4	28
22	Molecular engineering of polymeric carbon nitride: advancing applications from photocatalysis to biosensing and more. Chemical Society Reviews, 2018, 47, 2298-2321.	18.7	488
23	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. Nano Letters, 2018, 18, 2718-2724.	4.5	26
24	Controlling the Catalytic and Optical Properties of Aggregated Nanoparticles or Semiconductor Quantum Dots Using DNA-Based Constitutional Dynamic Networks. ACS Nano, 2018, 12, 10725-10735.	7.3	41
25	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. Journal of the American Chemical Society, 2018, 140, 12077-12089.	6.6	44
26	Application of DNA Machineries for the Barcode Patterned Detection of Genes or Proteins. Analytical Chemistry, 2018, 90, 6468-6476.	3.2	9
27	Coupled Fluorometer-Potentiostat System and Metal-Free Monochromatic Luminophores for High-Resolution Wavelength-Resolved Electrochemiluminescent Multiplex Bioassay. ACS Sensors, 2018, 3, 1362-1367.	4.0	47
28	Coupling multiphase-Fe and hierarchical N-doped graphitic carbon as trifunctional electrocatalysts by supramolecular preorganization of precursors. Chemical Communications, 2017, 53, 2044-2047.	2.2	49
29	Chemically Modulated Carbon Nitride Nanosheets for Highly Selective Electrochemiluminescent Detection of Multiple Metal-ions. Analytical Chemistry, 2016, 88, 6004-6010.	3.2	137
30	Reversible Assembly of Graphitic Carbon Nitride 3D Network for Highly Selective Dyes Absorption and Regeneration. ACS Nano, 2016, 10, 9036-9043.	7.3	161
31	Comparison Study of the Photoelectrochemical Activity of Carbon Nitride with Different Photoelectrode Configurations. ACS Applied Materials & Interfaces, 2016, 8, 22287-22294.	4.0	41
32	Nitrogen-doped porous carbon with a hierarchical structure prepared for a high performance symmetric supercapacitor. RSC Advances, 2016, 6, 101988-101994.	1.7	9
33	Dissolution and Liquid Crystals Phase of 2D Polymeric Carbon Nitride. Journal of the American Chemical Society, 2015, 137, 2179-2182.	6.6	304
34	Environment-friendly preparation of porous graphite-phase polymeric carbon nitride using calcium carbonate as templates, and enhanced photoelectrochemical activity. Journal of Materials Chemistry A, 2015, 3, 5126-5131.	5.2	142
35	Synthesis of B-doped hollow carbon spheres as efficient non-metal catalyst for oxygen reduction reaction. RSC Advances, 2015, 5, 52126-52131.	1.7	33
36	Chemical Cleavage of Layered Carbon Nitride with Enhanced Photoluminescent Performances and Photoconduction. ACS Nano, 2015, 9, 12480-12487.	7.3	251

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37	Potential-Modulated Electrochemiluminescence of Carbon Nitride Nanosheets for Dual-Signal Sensing of Metal Ions. ACS Applied Materials & Interfaces, 2015, 7, 23672-23678.	4.0	86
38	Label-free DNA detection based on oligonucleotide-stabilized silver nanoclusters and exonuclease III-catalyzed target recycling amplification. Analytical Methods, 2014, 6, 6082-6087.	1.3	7
39	Electrochemiluminescence resonance energy transfer between graphene quantum dots and gold nanoparticles for DNA damage detection. Analyst, The, 2014, 139, 2404-2410.	1.7	107
40	Application of capillary electrophoresis coupling with electrochemiluminescence detection to estimate activity of leucine aminopeptidas. Biomedical Chromatography, 2013, 27, 946-952.	0.8	19
41	DNA-responsive disassembly of AuNP aggregates: influence of nonbase-paired regions and colorimetric DNA detection by exonuclease III aided amplification. Journal of Materials Chemistry B, 2013, 1, 2851.	2.9	45