

Yingwei Zhang

List of Publications by Year in descending order

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53
papers

2,706
citations

236612

25
h-index

223531

46
g-index

53
all docs

53
docs citations

53
times ranked

4125
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. <i>Macromolecules</i> , 2010, 43, 10078-10083.	2.2	370
2	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H_2O_2 , and glucose sensing. <i>RSC Advances</i> , 2012, 2, 538-545.	1.7	274
3	Biomolecule-Assisted, Environmentally Friendly, One-Pot Synthesis of CuS/Reduced Graphene Oxide Nanocomposites with Enhanced Photocatalytic Performance. <i>Langmuir</i> , 2012, 28, 12893-12900.	1.6	269
4	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. <i>Catalysis Science and Technology</i> , 2011, 1, 1142.	2.1	239
5	Tuning the Aggregation/Disaggregation Behavior of Graphene Quantum Dots by Structure-Switching Aptamer for High-Sensitivity Fluorescent Ochratoxin A Sensor. <i>Analytical Chemistry</i> , 2017, 89, 1704-1709.	3.2	113
6	Ag@Poly(m-phenylenediamine) Core-Shell Nanoparticles for Highly Selective, Multiplex Nucleic Acid Detection. <i>Langmuir</i> , 2011, 27, 2170-2175.	1.6	101
7	Novel application of CoFe layered double hydroxide nanoplates for colorimetric detection of H_2O_2 and glucose. <i>Analyst</i> , 2012, 137, 1325.	1.7	99
8	Improved nonlinear fault detection technique and statistical analysis. <i>AIChE Journal</i> , 2008, 54, 3207-3220.	1.8	96
9	Fault Detection and Diagnosis of Nonlinear Processes Using Improved Kernel Independent Component Analysis (KICA) and Support Vector Machine (SVM). <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6961-6971.	1.8	85
10	A simple route for preparation of highly stable CuO nanoparticles for nonenzymatic glucose detection. <i>Catalysis Science and Technology</i> , 2012, 2, 813.	2.1	85
11	Multi-walled carbon nanotubes as an effective fluorescent sensing platform for nucleic acid detection. <i>Journal of Materials Chemistry</i> , 2011, 21, 824-828.	6.7	83
12	Photocatalytic synthesis of highly dispersed Pd nanoparticles on reduced graphene oxide and their application in methanol electro-oxidation. <i>Catalysis Science and Technology</i> , 2012, 2, 1153.	2.1	74
13	Fast and Sensitive Colorimetric Detection of H_2O_2 and Glucose: A Strategy Based on Polyoxometalate Clusters. <i>ChemPlusChem</i> , 2012, 77, 541-544.	1.3	71
14	Microwave-assisted, environmentally friendly, one-pot preparation of Pd nanoparticles/graphene nanocomposites and their application in electrocatalytic oxidation of methanol. <i>Catalysis Science and Technology</i> , 2011, 1, 1636.	2.1	57
15	A novel fluorescent aptasensor for thrombin detection: using poly(m-phenylenediamine) rods as an effective sensing platform. <i>Chemical Communications</i> , 2011, 47, 3927.	2.2	54
16	Carbon nanospheres for fluorescent biomolecular detection. <i>Journal of Materials Chemistry</i> , 2011, 21, 4663.	6.7	50
17	DNA Origami Guided Self-Assembly of Plasmonic Polymers with Robust Long-Range Plasmonic Resonance. <i>Nano Letters</i> , 2020, 20, 8926-8932.	4.5	47
18	One-step preparation of ZnO nanoparticle-decorated reduced graphene oxide composites and their application to photocurrent generation. <i>RSC Advances</i> , 2012, 2, 1318.	1.7	46

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19	Adaptive actuator/component fault compensation for nonlinear systems. <i>AIChE Journal</i> , 2008, 54, 2404-2412.	1.8	42
20	Fault Detection of Non-Gaussian Processes Based on Model Migration. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1517-1526.	3.2	38
21	Microwave-assisted rapid synthesis of Pt/graphene nanosheet composites and their application for methanol oxidation. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4731-4737.	0.8	37
22	Process Fault Detection Using Directional Kernel Partial Least Squares. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2509-2518.	1.8	37
23	Submicrometre-scale polyaniline colloidal spheres: photopolymerization preparation using fluorescent carbon nitride dots as a photocatalyst. <i>Catalysis Science and Technology</i> , 2012, 2, 711.	2.1	35
24	A novel acid-driven, microwave-assisted, one-pot strategy toward rapid production of graphitic N-doped carbon nanoparticles-decorated carbon flakes from N,N-dimethylformamide and their application in removal of dye from water. <i>RSC Advances</i> , 2012, 2, 4632.	1.7	31
25	Design and operation of reconfigurable two-dimensional DNA molecular arrays. <i>Nature Protocols</i> , 2018, 13, 2312-2329.	5.5	30
26	Novel Use of Poly(3,4-ethylenedioxythiophene) Nanoparticles for Fluorescent Nucleic Acid Detection. <i>ACS Combinatorial Science</i> , 2012, 14, 191-196.	3.8	24
27	Construction of Plasmonic Core-Satellite Nanostructures on Substrates Based on DNA-Directed Self-Assembly as a Sensitive and Reproducible Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27131-27139.	4.0	23
28	Environmentally Friendly Photocatalytic Synthesis of Porphyrin/Ag Nanoparticles/Reduced Graphene Oxide Ternary Nanohybrids Having Superior Catalytic Activity. <i>ChemPlusChem</i> , 2012, 77, 545-550.	1.3	21
29	Mesoporous carbon microparticles as a novel fluorescent sensing platform for thrombin detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3876-3880.	5.3	18
30	Optimal control of continuous annealing process using PSO. , 2009, , .		15
31	Dual-color graphene quantum dots and carbon nanoparticles biosensing platform combined with Exonuclease III-assisted signal amplification for simultaneous detection of multiple DNA targets. <i>Analytica Chimica Acta</i> , 2021, 1154, 338346.	2.6	15
32	Tetracyanoquinodimethane nanoparticles as an effective sensing platform for fluorescent nucleic acid detection. <i>Analytical Methods</i> , 2011, 3, 1051.	1.3	14
33	Fluorescence-Enhanced Potassium Ions Detection Based on Inherent Quenching Ability of Deoxyguanosines and K ⁺ -Induced Conformational Transition of G-Rich ssDNA from Duplex to G-Quadruplex Structures. <i>Journal of Fluorescence</i> , 2011, 21, 1841-1846.	1.3	14
34	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8594-8600.	7.2	12
35	Fault Detection for Time-Varying Processes. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 1527-1535.	3.2	11
36	Programming DNA Tube Circumference by Tile Offset Connection. <i>Journal of the American Chemical Society</i> , 2019, 141, 19529-19532.	6.6	11

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37	Stability of Nonlinear Networked Control System with Uncertainties. <i>Circuits, Systems, and Signal Processing</i> , 2010, 29, 1041-1060.	1.2	10
38	Rapid multilayer construction on a non-planar substrate by layer-by-layer self-assembly under high gravity. <i>RSC Advances</i> , 2014, 4, 59528-59534.	1.7	10
39	Fault Diagnosis and Isolation of Multi-Input-Multi-Output Networked Control Systems. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2636-2642.	1.8	8
40	Detection of single-stranded nucleic acids by hybridization of probe oligonucleotides on polystyrene nanospheres and subsequent release and recovery of fluorescence. <i>RSC Advances</i> , 2011, 1, 1318.	1.7	7
41	Fault-tolerant control of nonlinear system. <i>International Journal of Control, Automation and Systems</i> , 2011, 9, 1116-1123.	1.6	6
42	Fault detection of nonlinear dynamic processes using dynamic kernel principal component analysis. , 2008, , .		4
43	Actuator Fault Compensation for Nonlinear Systems Using Adaptive Tracking Control. <i>Circuits, Systems, and Signal Processing</i> , 2010, 29, 419-430.	1.2	4
44	Macroscopic supramolecular assembly to fabricate multiplexed DNA patterns for potential application in DNA chips. <i>Nanoscale</i> , 2017, 9, 17220-17223.	2.8	4
45	A Novel Single Fluorophore-Labeled Double-Stranded Oligonucleotide Probe for Fluorescence-Enhanced Nucleic Acid Detection Based on the Inherent Quenching Ability of Deoxyguanosine Bases and Competitive Strand-Displacement Reaction. <i>Journal of Fluorescence</i> , 2012, 22, 43-46.	1.3	3
46	Fabrication of covalently linked PAH/PVS layer-by-layer assembled multilayers via a post-photochemical cross-linking strategy. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 493-498.	1.3	3
47	Constructing a Multiplexed DNA Pattern by Combining Precise Magnetic Manipulation and DNA-Driven Assembly. <i>Langmuir</i> , 2018, 34, 1100-1108.	1.6	3
48	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie</i> , 2020, 132, 8672-8678.	1.6	2
49	Absolute stability of Lur'e singularly perturbed systems with multiple nonlinearities. , 2010, , .		1
50	Approximate dynamic programming of continuous annealing process. , 2009, , .		0
51	Macromol. Rapid Commun. 12/2011. <i>Macromolecular Rapid Communications</i> , 2011, 32, .	2.0	0
52	Kernel least squares regression for fault isolation. , 2014, , .		0
53	Adaptive Output Tracking Control for Nonlinear Systems with Failed Actuators and Aircraft Flight System Applications. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-14.	0.6	0