

Jianniao Tian

List of Publications by Year in descending order

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61
papers

2,651
citations

218677

26
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182427

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docs citations

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times ranked

3491
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electrocatalytic oxidation of methanol on Pd/polypyrrole-graphene in alkaline medium. <i>Electrochimica Acta</i> , 2011, 56, 1967-1972.	5.2	355
2	Methanol electro-oxidation on Ni@Pd core-shell nanoparticles supported on multi-walled carbon nanotubes in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3249-3257.	7.1	312
3	Interaction of wogonin with bovine serum albumin. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4124-4129.	3.0	248
4	Ag/Au nanoparticles coated graphene electrochemical sensor for ultrasensitive analysis of carcinoembryonic antigen in clinical immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 570-576.	7.8	111
5	Rugae-like Ni ₂ P-CoP nanoarrays as a bi-functional catalyst for hydrogen generation: NaBH ₄ hydrolysis and water reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118584.	20.2	92
6	Microwave-Assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-Doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33673-33680.	8.0	81
7	Controllable synthesis and cell-imaging studies on CdTe quantum dots together capped by glutathione and thioglycolic acid. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 504-509.	9.4	75
8	A facile and novel approach toward synthetic polypyrrole oligomers functionalization of multi-walled carbon nanotubes as PtRu catalyst support for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2010, 195, 4634-4640.	7.8	75
9	High electrocatalytic activity of PtRu nanoparticles supported on starch-functionalized multi-walled carbon nanotubes for ethanol oxidation. <i>Journal of Materials Chemistry</i> , 2011, 21, 4257.	6.7	59
10	Star-like PtCu nanoparticles supported on graphene with superior activity for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2015, 177, 86-92.	5.2	55
11	Palladium nanoclusters decorated partially decomposed porous ZIF-67 polyhedron with ultrahigh catalytic activity and stability on hydrogen generation. <i>Renewable Energy</i> , 2019, 136, 1064-1070.	8.9	54
12	Oxygen defect-rich double-layer hierarchical porous Co ₃ O ₄ arrays as high-efficient oxygen evolution catalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , 2020, 47, 299-306.	12.9	53
13	DNAzyme self-assembled gold nanorods-based FRET or polarization assay for ultrasensitive and selective detection of copper(II) ion. <i>Biosensors and Bioelectronics</i> , 2014, 55, 285-288.	10.1	51
14	Temperature effect on crystallinity and chemical states of nickel hydroxide as alternative superior catalyst for urea electrooxidation. <i>Electrochimica Acta</i> , 2019, 301, 47-54.	5.2	49
15	One-pot synthesis of reduced graphene oxide supported PtCu catalysts with enhanced electro-catalytic activity for the methanol oxidation reaction. <i>Electrochimica Acta</i> , 2014, 136, 292-300.	5.2	48
16	Oxygen-Evolution Catalysts Based on Iron-Mediated Nickel Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019, 2, 6334-6342.	5.0	48
17	Hierarchically structured rugae-like Ru ₃ -CoP arrays as robust catalysts synergistically promoting hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8865-8872.	10.3	46
18	Ceria-Induced Strategy To Tailor Pt Atomic Clusters on Cobalt-Nickel Oxide and the Synergetic Effect for Superior Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7451-7457.	6.7	44

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19	Electrocatalytic oxidation of methanol at 2-aminophenoxazin-3-one-functionalized multiwalled carbon nanotubes supported PtRu nanoparticles. <i>Electrochimica Acta</i> , 2009, 54, 7114-7120.	5.2	42
20	Sensitive aptamer-based fluorescence polarization assay for mercury(II) ions and cysteine using silver nanoparticles as a signal amplifier. <i>Mikrochimica Acta</i> , 2014, 181, 1423-1430.	5.0	41
21	Preparation of Pt/CeO ₂ /HCSs anode electrocatalysts for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2010, 55, 8998-9003.	5.2	40
22	Synthesis of CdTe/CdS/ZnS quantum dots and their application in imaging of hepatocellular carcinoma cells and immunoassay for alpha fetoprotein. <i>Nanotechnology</i> , 2010, 21, 305101.	2.6	37
23	Protein-binding aptamer assisted signal amplification for the detection of influenza A (H1N1) DNA sequences based on quantum dot fluorescence polarization analysis. <i>Analyst</i> , The, 2013, 138, 4722.	3.5	37
24	Synthesis of Ni@PbPt supported on graphene by galvanic displacement reaction for improving ethanol electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13227.	10.3	35
25	Synthesis of Pd nanoparticles supported on PDDA functionalized graphene for ethanol electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 322-329.	7.1	32
26	Studies on interaction between CdTe quantum dots and Î±-chymotrypsin by molecular spectroscopy. <i>Journal of Chemical Sciences</i> , 2010, 122, 391-400.	1.5	27
27	Mass-amplifying quantum dots in a fluorescence polarization-based aptasensor for ATP. <i>Mikrochimica Acta</i> , 2013, 180, 203-209.	5.0	27
28	Highly dispersed Pd nanoparticles on 2-aminophenoxazin-3-one functionalized MWCNTs surface for methanol electro-oxidation in alkaline media. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 171, 109-115.	3.5	26
29	Template synthesis of two-dimensional ternary nickel-cobalt-nitrogen co-doped porous carbon film: Promoting the conductivity and more active sites for oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 276-285.	9.4	26
30	Dissolution reconstruction of electron-transfer enhanced hierarchical NiS _x -MoO ₂ nanosponges as a promising industrialized hydrogen evolution catalyst beyond Pt/C. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 339-346.	9.4	26
31	Hierarchical Core@Shell N-doped Carbon@FeP ₄ @CoP Arrays as Robust Bifunctional Electrocatalysts for Overall Water Splitting at High Current Density. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100065.	3.7	25
32	A steady-state and time-resolved fluorescence, circular dichroism study on the binding of myricetin to bovine serum albumin. <i>Luminescence</i> , 2009, 24, 386-393.	2.9	24
33	Homogenous fluorescence polarization assay for the DNA of HIV A T7 by exploiting exonuclease-assisted quadratic recycling amplification and the strong interaction between graphene oxide and ssDNA. <i>Mikrochimica Acta</i> , 2016, 183, 2147-2153.	5.0	22
34	Synergistic catalytic effect of N-doped carbon embedded with CoFe-rich CoFe ₂ O ₄ clusters as highly efficient catalyst towards oxygen reduction. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153015.	5.5	22
35	Studies on the interaction between tetraphenylporphyrin compounds and bovine serum albumin. <i>Luminescence</i> , 2007, 22, 446-454.	2.9	21
36	A T7 exonuclease-assisted target recycling amplification with graphene oxide acting as the signal amplifier for fluorescence polarization detection of human immunodeficiency virus (HIV) DNA. <i>Luminescence</i> , 2016, 31, 573-579.	2.9	21

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37	Well-dispersed iron oxide stabilized Fe N4 active sites in porous N-doped carbon spheres as alternative superior catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12127-12137.	7.1	21
38	Ratiometric fluorescent 3D DNA walker and catalyzed hairpin assembly for determination of microRNA. <i>Mikrochimica Acta</i> , 2020, 187, 365.	5.0	19
39	A label-free fluorescent probe based on DNA-templated silver nanoclusters and exonuclease III-assisted recycling amplification detection of nucleic acid. <i>Analytica Chimica Acta</i> , 2015, 900, 90-96.	5.4	18
40	Fluorescence polarization gene assay for HIV-DNA based on the use of dendrite-modified gold nanoparticles acting as signal amplifiers. <i>Mikrochimica Acta</i> , 2018, 185, 119.	5.0	18
41	A new label-free fluorescent sensor for human immunodeficiency virus detection based on exonuclease III-assisted quadratic recycling amplification and DNA-scaffolded silver nanoclusters. <i>Analyst</i> , 2016, 141, 2998-3003.	3.5	17
42	In situ synthesis of cobalt-based tri-metallic nanosheets as highly efficient catalysts for sodium borohydride hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 219-226.	7.1	17
43	A Simple and Sensitive Nanocatalytic Fluorescence Method for the Determination of Folic Acid in Foods Using Fe ₃ O ₄ Nanoparticle-K ₂ S ₂ O ₈ System. <i>Food Analytical Methods</i> , 2013, 6, 76-81.	2.6	16
44	Fluorometric determination of microRNA-122 by using ExoIII-aided recycling amplification and polythymine induced formation of copper nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 133.	5.0	16
45	Ultrasensitive detection of microRNA-21 based on electrophoresis assisted cascade chemiluminescence signal amplification for the identification of cancer cells. <i>Talanta</i> , 2020, 209, 120505.	5.5	16
46	A hybrid catalyst of Pt/CoNiO ₂ on carbon nanotubes and its synergetic effect towards remarkable ethanol electro-oxidation in alkaline media. <i>Sustainable Energy and Fuels</i> , 2018, 2, 229-236.	4.9	15
47	A novel exonuclease III-aided amplification assay based on a graphene platform for sensitive detection of adenosine triphosphate. <i>Analytical Methods</i> , 2015, 7, 3708-3713.	2.7	12
48	Highly dispersed Pd nanoparticles on 9-amino-1-azabenzanthrone functionalized graphene-like carbon surface for methanol electro-oxidation in alkaline medium. <i>Materials Chemistry and Physics</i> , 2014, 144, 107-113.	4.0	10
49	Detection of microRNA using enzyme-assisted amplifying and DNA-templated silver nanoclusters signal-off fluorescence bioassay. <i>Talanta</i> , 2020, 210, 120623.	5.5	9
50	A mitochondria-targeted ratiometric fluorescent nanoprobe for imaging of peroxynitrite in living cells. <i>Talanta</i> , 2021, 231, 122421.	5.5	9
51	Facile Synthesis of Polyhedral Pd Nanocrystals as a Highly Active and Methanol-Tolerant Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , 2017, 2, 9291-9297.	1.5	8
52	A Highly Sensitive Enzyme Catalytic Method for the Detection of Ethanol Based on Resonance Scattering Effect of Gold Particles. <i>Plasmonics</i> , 2013, 8, 307-312.	3.4	7
53	Rapid and label-free fluorescence bioassay for microRNA based on exonuclease III-assisted cycle amplification. <i>RSC Advances</i> , 2018, 8, 15967-15972.	3.6	7
54	Exploring the effect of Ni/Cr contents on the sheet-like NiCr-oxide-decorated CNT composites as highly active and stable catalysts for urea electrooxidation. <i>Clean Energy</i> , 2020, 4, 58-66.	3.2	7

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55	Free-labelled fluorescent method for ATP detection assisted by T4 DNA ligase. Analytical Methods, 2017, 9, 1046-1049.	2.7	6
56	A DNAzyme-driven random biped DNA walking nanomachine for sensitive detection of uracil-DNA glycosylase activity. Analyst, The, 2021, 146, 5643-5649.	3.5	6
57	A simple and rapid dual-cycle amplification strategy for microRNA based on graphene oxide and exonuclease III-assisted fluorescence recovery. Analytical Methods, 2018, 10, 3777-3782.	2.7	4
58	Interaction between Xanthoxylin and Bovine Serum Albumin. Chinese Journal of Chemistry, 2009, 27, 306-310.	4.9	3
59	A novel chemiluminescence signal amplification strategy based on a capillary electrophoresis platform for highly sensitive competitive immunoassay of biomolecules. Analytical Methods, 2018, 10, 5499-5506.	2.7	2
60	Sensitive detection of microRNA using a label-free copper nanoparticle system with polymerase-based signal amplification. Analytical and Bioanalytical Chemistry, 2020, 412, 7179-7185.	3.7	1
61	STUDY OF INTERACTION OF KAEMPFEROL WITH HUMAN SERUM ALBUMIN BY SPECTROSCOPY AND MOLECULAR MODELLING. , 2008, , .		0