

Aicheng Chen

List of Publications by Year in descending order

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209
papers

14,436
citations

19636

61
h-index

22808

112
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212
all docs

212
docs citations

212
times ranked

17124
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and mechanistic study of advanced cobalt-based nanostructured catalysts for electrochemical carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120761.	10.8	16
2	Biomass-derived amorphous carbon with localized active graphite defects for effective electrocatalytic N ₂ reduction. <i>Applied Surface Science</i> , 2022, 575, 151630.	3.1	10
3	Synthesis and electrochemical studies of WO ₃ -based nanomaterials for environmental, energy and gas sensing applications. <i>Electrochemical Science Advances</i> , 2022, 2, e2100146.	1.2	6
4	Entrapping gold nanoparticles in membranes for simple-to-use enhanced fluorescence detection of proteins. <i>Analytica Chimica Acta</i> , 2022, 1195, 339443.	2.6	16
5	Effective microwave-hydrothermal reduction of graphene oxide for efficient energy storage. <i>Journal of Energy Storage</i> , 2022, 48, 103962.	3.9	9
6	Recent advances in catalyst design for the electrochemical and photoelectrochemical conversion of methane to value-added products. <i>Electrochemistry Communications</i> , 2022, 135, 107220.	2.3	13
7	Determination of Drugs in Clinical Trials: Current Status and Outlook. <i>Sensors</i> , 2022, 22, 1592.	2.1	5
8	Methods for Enhanced Fluorescence Detection of Proteins by using Entrapped Gold Nanoparticles in Membranes. <i>Current Protocols</i> , 2022, 2, e404.	1.3	3
9	Electrochemical Sensing of Vanillin Based on Fluorine-Doped Reduced Graphene Oxide Decorated with Gold Nanoparticles. <i>Foods</i> , 2022, 11, 1448.	1.9	14
10	Tailoring the Mn–O Covalency and Surface Oxygen Defects of Ferrite Nanostructures for Peroxymonosulfate Activation and Norfloxacin Degradation. <i>ACS Applied Nano Materials</i> , 2022, 5, 8921-8929.	2.4	6
11	Tailoring trimetallic CoNiFe oxide nanostructured catalysts for the efficient electrochemical conversion of methane to methanol. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15012-15025.	5.2	4
12	Nanomaterial-based electrochemical sensors and biosensors for the detection of pharmaceutical compounds. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112836.	5.3	200
13	Design of an enzyme-mimicking NiO@Au nanocomposite for the sensitive electrochemical detection of lactic acid in human serum and urine. <i>Electrochimica Acta</i> , 2021, 368, 137612.	2.6	29
14	Copper decorated with nanoporous gold by galvanic displacement acts as an efficient electrocatalyst for the electrochemical reduction of CO ₂ . <i>Nanoscale</i> , 2021, 13, 1155-1163.	2.8	15
15	An ultrasensitive electrochemical sensor for the detection of acetaminophen via a three-dimensional hierarchical nanoporous gold wire electrode. <i>Analyst</i> , 2021, 146, 4525-4534.	1.7	5
16	Comparison of Pt and IrO ₂ -Ta ₂ O ₅ /Ti as a counter electrode in acidic media. <i>Electrochemistry Communications</i> , 2021, 124, 106946.	2.3	10
17	Graphene Oxide-Based Nanomaterials for the Electrochemical Sensing of Isoniazid. <i>ACS Applied Nano Materials</i> , 2021, 4, 3696-3706.	2.4	41
18	Simultaneous electrochemical detection of guanine and adenine using reduced graphene oxide decorated with AuPt nanoclusters. <i>Mikrochimica Acta</i> , 2021, 188, 276.	2.5	18

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19	Double Active Sites in Co ^x N _x /C@Co Electrocatalysts for Simultaneous Production of Hydrogen and Carbon Monoxide. ACS Applied Materials & Interfaces, 2021, 13, 38256-38265.	4.0	18
20	Electrochemical Detection of Nitrite Based on Co ₃ O ₄ -Au Nanocomposites for Food Quality Control. Journal of the Electrochemical Society, 2021, 168, 107505.	1.3	13
21	Design of bimetallic nickel-iron quantum dots with tunable compositions for enhanced electrochemical water splitting. Electrochimica Acta, 2021, 392, 139016.	2.6	8
22	Design and Electrochemical Study of Three-Dimensional Expanded Graphite and Reduced Graphene Oxide Nanocomposites Decorated with Pd Nanoparticles for Hydrogen Storage. Journal of Physical Chemistry C, 2021, 125, 22970-22981.	1.5	8
23	Solar-driven bio-electro-chemical system for synergistic hydrogen evolution and pollutant elimination simultaneously over defect-rich CoNi-MoS ₂ /biomass nanosheets. Journal of Power Sources, 2020, 478, 228755.	4.0	9
24	Novel three-dimensional N-doped interconnected reduced graphene oxide with superb capacitance for energy storage. Journal of Electroanalytical Chemistry, 2020, 875, 113911.	1.9	20
25	Significant enhancement of the electrochemical hydrogen uptake of reduced graphene oxide via boron-doping and decoration with Pd nanoparticles. International Journal of Hydrogen Energy, 2020, 45, 28951-28963.	3.8	20
26	Reprint of "Electrochemical oxidation of lignin at electrochemically reduced TiO ₂ nanotubes". Journal of Electroanalytical Chemistry, 2020, 872, 114528.	1.9	6
27	In Situ Enzymatic Generation of Gold Nanoparticles for Nanozymatic Label-free Detection of Acid Phosphatase. ACS Applied Nano Materials, 2020, 3, 9462-9469.	2.4	19
28	Electrochemical oxidation of lignin at electrochemically reduced TiO ₂ nanotubes. Journal of Electroanalytical Chemistry, 2020, 863, 114049.	1.9	22
29	Patterning of BiVO ₄ Surfaces and Monitoring of Localized Catalytic Activity Using Scanning Photoelectrochemical Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 18065-18073.	4.0	11
30	Unique hollow Ni ²⁺ @Fe@MoS ₂ nanocubes with boosted electrocatalytic activity for N ₂ reduction to NH ₃ . Journal of Materials Chemistry A, 2020, 8, 7339-7349.	5.2	60
31	Quantitative structure-property relationship of the photoelectrochemical oxidation of phenolic pollutants at modified nanoporous titanium oxide using supervised machine learning. Physical Chemistry Chemical Physics, 2020, 22, 8878-8888.	1.3	10
32	Synthesis and Electrochemical Study of Three-Dimensional Graphene-Based Nanomaterials for Energy Applications. Nanomaterials, 2020, 10, 1295.	1.9	23
33	Efficient dye removal and separation based on graphene oxide nanomaterials. New Journal of Chemistry, 2020, 44, 4519-4528.	1.4	68
34	Highly boosted gas diffusion for enhanced electrocatalytic reduction of N ₂ to NH ₃ on 3D hollow Co ²⁺ @MoS ₂ nanostructures. Nanoscale, 2020, 12, 6029-6036.	2.8	30
35	Graphene-Oxide-Based Electrochemical Sensors for the Sensitive Detection of Pharmaceutical Drug Naproxen. Sensors, 2020, 20, 1252.	2.1	69
36	Review-Recent Advances in the Development of Nanoporous Au for Sensing Applications. Journal of the Electrochemical Society, 2020, 167, 037532.	1.3	41

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37	Recent advances in nanomaterial-based solid-state hydrogen storage. <i>Materials Today Advances</i> , 2020, 6, 100022.	2.5	123
38	Effect of Reduced Graphene Oxide on the Ta ₂ O ₅ -IrO ₂ Electrocatalyst for Water Splitting. <i>Journal of the Electrochemical Society</i> , 2020, 167, 146506.	1.3	13
39	Sensitive Electrochemical Analysis of Hydroxyproline in Achilles Tendon Collagen and Human Urine. <i>Journal of the Electrochemical Society</i> , 2020, 167, 167511.	1.3	4
40	Thermal-assisted synthesis of unique Cu nanodendrites for the efficient electrochemical reduction of CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118096.	10.8	35
41	Electrochemical Reduction of Carbon Dioxide on Au Nanoparticles: An in Situ FTIR Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23898-23906.	1.5	46
42	Identification of Catalytic Active Sites in Nitrogen-Doped Carbon for Electrocatalytic Dechlorination of 1,2-Dichloroethane. <i>ACS Catalysis</i> , 2019, 9, 10931-10939.	5.5	46
43	Recent advances in nanomaterial-based electrochemical sensing of nitric oxide and nitrite for biomedical and food research. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 127-133.	2.5	34
44	Sulfur vacancy-rich N-doped MoS ₂ nanoflowers for highly boosting electrocatalytic N ₂ fixation to NH ₃ under ambient conditions. <i>Chemical Communications</i> , 2019, 55, 7386-7389.	2.2	111
45	Sensitive Electrochemical Detection of Caffeic Acid in Wine Based on Fluorine-Doped Graphene Oxide. <i>Sensors</i> , 2019, 19, 1604.	2.1	48
46	Synthesis and Electrochemical Study of Mesoporous Nickel-Cobalt Oxides for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18295-18304.	4.0	28
47	Fluorescent Fe ₃ O ₄ Quantum Dots for H ₂ O ₂ Detection. <i>ACS Applied Nano Materials</i> , 2019, 2, 2076-2085.	2.4	75
48	Green Synthesis and Electrochemical Study of Cobalt/Graphene Quantum Dots for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9183-9191.	1.5	30
49	Sensitive electrochemical detection of Hg(II) via a FeOOH modified nanoporous gold microelectrode. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 517-525.	4.0	50
50	Shape-controlled synthesis of Co ₃ O ₄ for enhanced electrocatalysis of the oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 3626-3629.	2.2	75
51	Rational Design of Peroxymonosulfate Activation and Photoinduced Catalysis Tandem Systems for Artificial Conversion of Solar Light to Chemical Energy. <i>ACS Omega</i> , 2019, 4, 4113-4128.	1.6	11
52	Boosting interfacial charge transfer and electricity generation for levofloxacin elimination in a self-driven bio-driven photoelectrocatalytic system. <i>Nanoscale</i> , 2019, 11, 22042-22053.	2.8	15
53	Nano-cement composite with graphene oxide produced from epigenetic graphite deposit. <i>Composites Part B: Engineering</i> , 2019, 159, 248-258.	5.9	66
54	Fabrication and electrochemical study of ruthenium-ruthenium oxide/activated carbon nanocomposites for enhanced energy storage. <i>Journal of Alloys and Compounds</i> , 2018, 751, 138-147.	2.8	27

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55	Simultaneous detection of hydrazine, sulfite, and nitrite based on a nanoporous gold microelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 524-532.	1.9	49
56	Significant Enhancement of the Photoelectrochemical Activity of CuWO ₄ by using a Cobalt Phosphate Nanoscale Thin Film. <i>ChemElectroChem</i> , 2018, 5, 523-530.	1.7	25
57	Relationships Between Crystal, Internal Microstructures, and Physicochemical Properties of Copper-Zinc-Iron Multinary Spinel Hierarchical Nano-microspheres. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35919-35931.	4.0	18
58	High-Temperature Hydrogen Gas Sensor Based on Three-Dimensional Hierarchical-Nanostructured Nickel-Cobalt Oxide. <i>ACS Applied Nano Materials</i> , 2018, 1, 6005-6014.	2.4	49
59	Fabrication of MoS ₂ @g-C ₃ N ₄ core-shell nanospheres for visible light photocatalytic degradation of toluene. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	17
60	Nanomaterials-Based Electrochemical Sensors for In Vitro and In Vivo Analyses of Neurotransmitters. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1504.	1.3	38
61	Efficient bacterial disinfection based on an integrated nanoporous titanium dioxide and ruthenium oxide bifunctional approach. <i>Journal of Hazardous Materials</i> , 2018, 356, 73-81.	6.5	17
62	Enhanced catalytic activity of nanoporous Au for the efficient electrochemical reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 483-489.	10.8	57
63	Electrochemical oxidation of 4-chlorophenol for wastewater treatment using highly active UV treated TiO ₂ nanotubes. <i>Chemosphere</i> , 2018, 209, 182-190.	4.2	24
64	Nanomaterial based electrochemical sensors for the safety and quality control of food and beverages. <i>Analyst, The</i> , 2018, 143, 4537-4554.	1.7	124
65	Effect of room temperature ionic liquids on the electrochemical dissolution and deposition of nickel in the Watts solution. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 901-910.	1.5	2
66	Facile one-pot synthesis of fluorinated graphene oxide for electrochemical sensing of heavy metal ions. <i>Electrochemistry Communications</i> , 2017, 76, 42-46.	2.3	106
67	Facile Synthesis of a Carbon Nitride/Reduced Graphene Oxide/Nickel Hydroxide Nanocomposite for Oxygen Reduction in Alkaline Media. <i>ChemElectroChem</i> , 2017, 4, 997-1001.	1.7	6
68	Significant enhancement of electrosorption of hydrogen into palladium via a facile annealing process. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12375-12383.	3.8	5
69	From graphite to interconnected reduced graphene oxide: one-pot synthesis and supercapacitor application. <i>Chemical Communications</i> , 2017, 53, 7828-7831.	2.2	30
70	Unique copper and reduced graphene oxide nanocomposite toward the efficient electrochemical reduction of carbon dioxide. <i>Scientific Reports</i> , 2017, 7, 3184.	1.6	64
71	A high-performance enzyme entrapment platform facilitated by a cationic polymer for the efficient electrochemical sensing of ethanol. <i>Analyst, The</i> , 2017, 142, 2595-2602.	1.7	18
72	Au nanoparticle incorporated Co(OH) ₂ hybrid thin film with high electrocatalytic activity and stability for overall water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 28-35.	1.9	36

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73	Effective immobilization of alcohol dehydrogenase on carbon nanoscaffolds for ethanol biofuel cell. <i>Bioelectrochemistry</i> , 2017, 118, 83-90.	2.4	18
74	Facile synthesis of mesoporous carbon nitride and titanium dioxide nanocomposites with enhanced visible light photocatalytic activity. <i>New Journal of Chemistry</i> , 2017, 41, 10542-10549.	1.4	16
75	Superb Pseudocapacitance Based on Three-Dimensional Porous Nickel Oxide Modified with Iridium Oxide. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27274-27284.	1.5	15
76	Sensitive Electrochemical Detection of Nitric Oxide Release from Cardiac and Cancer Cells via a Hierarchical Nanoporous Gold Microelectrode. <i>Analytical Chemistry</i> , 2017, 89, 8036-8043.	3.2	53
77	Electrochemical and FTIR spectroscopic study of CO ₂ reduction at a nanostructured Cu/reduced graphene oxide thin film. <i>Electrochemistry Communications</i> , 2017, 82, 16-20.	2.3	31
78	Design and Electrochemical Study of Platinum-Based Nanomaterials for Sensitive Detection of Nitric Oxide in Biomedical Applications. <i>Nanomaterials</i> , 2016, 6, 211.	1.9	36
79	Electrochemical Behavior of Gold-Silver Alloy Nanoparticles. <i>ChemElectroChem</i> , 2016, 3, 1039-1043.	1.7	24
80	Photoelectrochemical degradation of acetaminophen and valacyclovir using nanoporous titanium dioxide. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1062-1069.	6.9	22
81	Sensitive electrochemical detection of nitric oxide based on AuPt and reduced graphene oxide nanocomposites. <i>Analyst</i> , 2016, 141, 4074-4083.	1.7	52
82	Simultaneous and sensitive detection of acetaminophen and valacyclovir based on two dimensional graphene nanosheets. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 241-248.	1.9	40
83	Facile and Controllable Modification of 3D In ₂ O ₃ Microflowers with In ₂ S ₃ Nanoflakes for Efficient Photocatalytic Degradation of Gaseous <i>ortho</i> -Dichlorobenzene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19113-19123.	1.5	99
84	Enhanced electrochemical sensing of nitric oxide using a nanocomposite consisting of platinum-tungsten nanoparticles, reduced graphene oxide and an ionic liquid. <i>Mikrochimica Acta</i> , 2016, 183, 2879-2887.	2.5	38
85	Photoassisted Deposition of Palladium Nanoparticles on Carbon Nitride for Efficient Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14467-14473.	1.5	42
86	Palladium based nanomaterials for enhanced hydrogen spillover and storage. <i>Materials Today</i> , 2016, 19, 100-108.	8.3	155
87	Nanostructured materials for water splitting - state of the art and future needs: A mini-review. <i>Electrochemistry Communications</i> , 2016, 63, 10-17.	2.3	126
88	Novel cobalt quantum dot/graphene nanocomposites as highly efficient electrocatalysts for water splitting. <i>Nanoscale</i> , 2016, 8, 1485-1492.	2.8	62
89	Simultaneous removal of nitrate and hardness ions from groundwater using electrodeionization. <i>Separation and Purification Technology</i> , 2016, 164, 107-113.	3.9	71
90	High-performance supercapacitor based on tantalum iridium oxides supported on tungsten oxide nanoplatelets. <i>Electrochemistry Communications</i> , 2016, 67, 1-5.	2.3	41

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91	Determination of chemical oxygen demand based on photoelectrocatalysis of nanoporous TiO ₂ electrodes. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 664-670.	4.0	33
92	Modification of TiO ₂ Nanotubes with PtRu/Graphene Nanocomposites for Enhanced Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 2041-2047.	1.7	16
93	Carbon Nanomaterials Based Electrochemical Sensors/Biosensors for the Sensitive Detection of Pharmaceutical and Biological Compounds. <i>Sensors</i> , 2015, 15, 22490-22508.	2.1	130
94	Significant Enhancement of the Photoelectrochemical Activity of Nanoporous TiO ₂ for Environmental Applications. <i>Electrochimica Acta</i> , 2015, 173, 728-735.	2.6	22
95	Simultaneous synthesis of gold nanoparticle/graphene nanocomposite for enhanced oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015, 274, 928-936.	4.0	80
96	Fabrication and photoelectrochemical study of WO ₃ -based bifunctional electrodes for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 464-471.	10.8	22
97	Electrochemical Sensor Based on Carbon Nanotubes for the Simultaneous Detection of Phenolic Pollutants. <i>Electroanalysis</i> , 2015, 27, 902-909.	1.5	73
98	Palladium-Based Nanomaterials: Synthesis and Electrochemical Applications. <i>Chemical Reviews</i> , 2015, 115, 11999-12044.	23.0	649
99	One-step synthesis of Pd and reduced graphene oxide nanocomposites for enhanced hydrogen sorption and storage. <i>Electrochemistry Communications</i> , 2015, 60, 148-152.	2.3	30
100	Synthesis and electrochemical study of Cd@Pd core/shell nanomaterials for hydrogen sorption and storage. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16365-16374.	3.8	22
101	Au nanoparticle/graphene nanocomposite as a platform for the sensitive detection of NADH in human urine. <i>Biosensors and Bioelectronics</i> , 2015, 66, 474-480.	5.3	143
102	Synthesis and photoelectrochemical studies of N, Zr co-doped mesoporous titanium dioxide. <i>Journal of Electroanalytical Chemistry</i> , 2015, 736, 93-100.	1.9	19
103	Sensitive Detection of Acetaminophen with Graphene-Based Electrochemical Sensor. <i>Electrochimica Acta</i> , 2015, 162, 198-204.	2.6	117
104	Synthesis and Comparative Study of Nanoporous Palladium-Based Bimetallic Catalysts for Formic Acid Oxidation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29903-29910.	1.5	56
105	Nanomaterials-based electrochemical detection of chemical contaminants. <i>RSC Advances</i> , 2014, 4, 63741-63760.	1.7	132
106	Electrodeionization: Principles, Strategies and Applications. <i>Electrochimica Acta</i> , 2014, 132, 583-597.	2.6	171
107	Direct growth and photo-electrochemical study of WO ₃ nanostructured materials. <i>Electrochemistry Communications</i> , 2014, 43, 13-17.	2.3	27
108	Selective hydrogenation of furfural and levulinic acid to biofuels on the ecofriendly Cu@Fe catalyst. <i>Fuel</i> , 2014, 115, 101-108.	3.4	234

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109	Integrated lignin-mediated adsorption-release process and electrochemical reduction for the removal of trace Cr(VI). RSC Advances, 2014, 4, 27843-27849.	1.7	43
110	Fabrication and electrochemical study of carbon modified TiO ₂ nanowires. Electrochemistry Communications, 2014, 49, 25-29.	2.3	6
111	Sensitive and selective electrochemical detection of chromium(VI) based on gold nanoparticle-decorated titania nanotube arrays. Analyst, The, 2014, 139, 235-241.	1.7	153
112	Separation and recovery of Cr(III) and Cr(VI) using electrodeionization as an efficient approach. Separation and Purification Technology, 2014, 137, 86-93.	3.9	44
113	Electrocatalysis and photoelectrochemistry based on functional nanomaterials. Canadian Journal of Chemistry, 2014, 92, 581-597.	0.6	17
114	Electrocatalytic Enhancement of Salicylic Acid Oxidation at Electrochemically Reduced TiO ₂ Nanotubes. ACS Catalysis, 2014, 4, 2616-2622.	5.5	60
115	Facile synthesis of porous microspheres composed of TiO ₂ nanorods with high photocatalytic activity for hydrogen production. Applied Catalysis B: Environmental, 2014, 148-149, 281-287.	10.8	60
116	Synthesis and electrochemical study of PtPd nanodendrites. Journal of Electroanalytical Chemistry, 2013, 688, 151-157.	1.9	19
117	Carbon nanotube based electrochemical sensor for the sensitive detection of valacyclovir. Faraday Discussions, 2013, 164, 135.	1.6	31
118	Efficient extraction of lignin from black liquor via a novel membrane-assisted electrochemical approach. Electrochimica Acta, 2013, 107, 611-618.	2.6	45
119	Functionalization of TiO ₂ nanotubes with palladium nanoparticles for hydrogen sorption and storage. International Journal of Hydrogen Energy, 2013, 38, 14002-14009.	3.8	24
120	Environmentally benign NiAlCe-hydroxalate for efficient synthesis of benzoin ethyl ether. Environmental Chemistry Letters, 2013, 11, 171-175.	8.3	4
121	Synthesis and Electrochemical Study of Pd-Based Trimetallic Nanoparticles for Enhanced Hydrogen Storage. Journal of Physical Chemistry C, 2013, 117, 20456-20464.	1.5	24
122	Integration of ion exchange and electrodeionization as a new approach for the continuous treatment of hexavalent chromium wastewater. Separation and Purification Technology, 2013, 105, 55-62.	3.9	114
123	Synthesis and electrochemical study of nanoporous palladium-cadmium networks for non-enzymatic glucose detection. Electrochimica Acta, 2013, 112, 927-932.	2.6	28
124	Electrochemical determination of methylglyoxal as a biomarker in human plasma. Biosensors and Bioelectronics, 2013, 42, 349-354.	5.3	33
125	Nanomaterials based electrochemical sensors for biomedical applications. Chemical Society Reviews, 2013, 42, 5425.	18.7	768
126	One-step synthesis of mesoporous H ₄ SiW ₁₂ O ₄₀ -SiO ₂ catalysts for the production of methyl and ethyl levulinate biodiesel. Catalysis Communications, 2013, 34, 58-63.	1.6	130

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127	Electrochemical sensing and biosensing based on square wave voltammetry. <i>Analytical Methods</i> , 2013, 5, 2158.	1.3	154
128	A novel nanoporous $\text{TiO}_2\text{-C}_3\text{N}_4$ photocatalyst with superior high visible light activity. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 590-597.	10.8	57
129	Synthesis of Gold-Platinum Nanomaterials Using Bromide Anion Exchange-Synergistic Electroactivity toward CO and Glucose Oxidation. <i>Journal of the Electrochemical Society</i> , 2012, 159, H828-H833.	1.3	45
130	Unique Electrochemical Catalytic Behavior of Pt Nanoparticles Deposited on TiO_2 Nanotubes. <i>ACS Catalysis</i> , 2012, 2, 425-432.	5.5	85
131	Electrocatalytic Activity of PtAu Nanoparticles Deposited on TiO_2 Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3298-3304.	1.5	52
132	Significant enhancement in the photocatalytic activity of N, W co-doped TiO_2 nanomaterials for promising environmental applications. <i>Nanotechnology</i> , 2012, 23, 475706.	1.3	47
133	Quantitative Structure-Reactivity Study of Electrochemical Oxidation of Phenolic Compounds at the SnO_2 -Based Electrode. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2927-2934.	1.1	19
134	Voltammetric detection of the α -dicarbonyl compound: Methylglyoxal as a flavoring agent in wine and beer. <i>Analytica Chimica Acta</i> , 2012, 751, 66-70.	2.6	40
135	Novel electrochemical approach for the monitoring of biodegradation of phenolic pollutants and determination of enzyme activity. <i>Electrochemistry Communications</i> , 2012, 25, 79-82.	2.3	16
136	Photoelectrochemical properties of tungsten trioxide thin film electrodes prepared from facet-controlled rectangular platelets. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1965-1973.	1.2	35
137	Synthesis of mesoporous nitrogen-tungsten co-doped TiO_2 photocatalysts with high visible light activity. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 38-45.	10.8	92
138	Facile electrochemical approach for the effective detection of guanine. <i>Electrochemistry Communications</i> , 2012, 20, 29-32.	2.3	21
139	Electrochemical oxidation of lignin at lead dioxide nanoparticles photoelectrodeposited on TiO_2 nanotube arrays. <i>Electrochimica Acta</i> , 2012, 60, 147-153.	2.6	91
140	Functionalization of carbon buckypaper for the sensitive determination of hydrogen peroxide in human urine. <i>Biosensors and Bioelectronics</i> , 2012, 35, 302-307.	5.3	57
141	Synthesis of CdS quantum-dot sensitized TiO_2 nanowires with high photocatalytic activity for water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 233, 65-71.	2.0	39
142	Interaction of carbon monoxide with small metal clusters: a DFT, electrochemical, and FTIR study. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1445-1456.	0.6	6
143	Highly sensitive amperometric H_2O_2 biosensor based on hemoglobin modified TiO_2 nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 64-69.	1.9	38
144	Significant enhancement of the photoelectrochemical activity of TiO_2 nanotubes. <i>Electrochemistry Communications</i> , 2011, 13, 1186-1189.	2.3	17

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145	Mediator-free electrochemical biosensor based on buckypaper with enhanced stability and sensitivity for glucose detection. <i>Biosensors and Bioelectronics</i> , 2011, 30, 287-293.	5.3	28
146	Facile Preparation of Platelike Tungsten Oxide Thin Film Electrodes with High Photoelectrode Activity. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4047-4052.	4.0	75
147	The role of palladium in a hydrogen economy. <i>Materials Today</i> , 2011, 14, 282-289.	8.3	421
148	Determination of Chemical Oxygen Demand Based on Novel Photoelectrode-bifunctional Electrodes. <i>Electroanalysis</i> , 2011, 23, 1267-1275.	1.5	25
149	High-performance electrochemical biosensor for the detection of total cholesterol. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4508-4513.	5.3	101
150	Synthesis and electrochemical study of TiO ₂ -supported PdAu nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 370-373.	2.3	29
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