Peng Diao

List of Publications by Year in descending order

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79 papers

4,485

32 h-index 102304 66 g-index

80 all docs

80 docs citations

80 times ranked 6957 citing authors

#	Article	IF	CITATIONS
1	Nickel foam supported NiFe2O4-NiO hybrid: A novel 3D porous catalyst for efficient heterogeneous catalytic ozonation of azo dye and nitrobenzene. Applied Surface Science, 2021, 541, 148683.	3.1	25
2	CuO/CuBi2O4 bilayered heterojunction as an efficient photocathode for photoelectrochemical hydrogen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 11607-11620.	3.8	24
3	Construction of the Fe3+-O-Mn3+/2+ hybrid bonds on the surface of porous silica as active centers for efficient heterogeneous catalytic ozonation. Journal of Solid State Chemistry, 2021, 300, 122266.	1.4	7
4	Dendritic CuBi ₂ O ₄ Array Photocathode Coated with Conformal TiO ₂ Protection Layer for Efficient and Stable Photoelectrochemical Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2021, 125, 1890-1901.	1.5	19
5	Polyazulene-Based Materials for Heavy Metal Ion Detection. 2. (E)-5-(azulen-1-yldiazenyl)-1H-Tetrazole-Modified Electrodes for Heavy Metal Sensing. Coatings, 2020, 10, 869.	1.2	6
6	Boosting the Activity and Stability of Copper Tungsten Nanoflakes toward Solar Water Oxidation by Iridium-Cobalt Phosphates Modification. Catalysts, 2020, 10, 913.	1.6	8
7	Nickel foam supported Cr-doped NiCo2O4/FeOOH nanoneedle arrays as a high-performance bifunctional electrocatalyst for overall water splitting. Nano Research, 2020, 13, 3299-3309.	5.8	88
8	Sulfur-Doped CoSe ₂ Porous Nanosheets as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. ACS Applied Materials & Samp; Interfaces, 2020, 12, 28288-28297.	4.0	86
9	Simultaneous detection of ammonia and nitrate using a modified electrode with two regions. Microchemical Journal, 2020, 154, 104649.	2.3	17
10	Sulfur and selenium doped nickel chalcogenides as efficient and stable electrocatalysts for hydrogen evolution reaction: The importance of the dopant atoms in and beneath the surface. Nano Energy, 2020, 74, 104787.	8.2	52
11	Fluorine doped copper tungsten nanoflakes with enhanced charge separation for efficient photoelectrochemical water oxidation. Electrochimica Acta, 2020, 352, 136471.	2.6	12
12	Molybdenum doped CuWO4 nanoflake array films as an efficient photoanode for solar water splitting. Electrochimica Acta, 2019, 308, 195-205.	2.6	47
13	Hybrids of iridium–cobalt phosphates as a highly efficient electrocatalyst for the oxygen evolution reaction in neutral solution. Chemical Communications, 2019, 55, 3000-3003.	2.2	25
14	Network Structured CuWO4/BiVO4/Co-Pi Nanocomposite for Solar Water Splitting. Catalysts, 2018, 8, 663.	1.6	14
15	Nickel-foam-supported \hat{I}^2 -Ni(OH) < sub>2 < /sub> as a green anodic catalyst for energy efficient electrooxidative degradation of azo-dye wastewater. RSC Advances, 2018, 8, 19776-19785.	1.7	24
16	Composite of Few-Layered MoS ₂ Grown on Carbon Black: Tuning the Ratio of Terminal to Total Sulfur in MoS ₂ for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2017, 121, 14413-14425.	1.5	58
17	A Composite of Pyrroleâ€Doped Carbon Black Modified with Co ₃ O ₄ for Efficient Electrochemical Oxygen Reduction Reaction. ChemElectroChem, 2017, 4, 2260-2268.	1.7	11
18	Photo-catalyzed surface hydrolysis of iridium(<scp>iii</scp>) ions on semiconductors: a facile method for the preparation of semiconductor/IrO _x composite photoanodes toward oxygen evolution reaction. Physical Chemistry Chemical Physics, 2017, 19, 145-154.	1.3	12

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19	Molybdenum Diselenide Nanolayers Prepared on Carbon Black as an Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2017, 121, 26686-26697.	1.5	28
20	Gold/WO3 nanocomposite photoanodes for plasmonic solar water splitting. Nano Research, 2016, 9, 1735-1751.	5.8	83
21	Tailored preparation of WO ₃ nano-grassblades on FTO substrate for photoelectrochemical water splitting. CrystEngComm, 2016, 18, 6798-6808.	1.3	20
22	Cu2O/CuO Bilayered Composite as a High-Efficiency Photocathode for Photoelectrochemical Hydrogen Evolution Reaction. Scientific Reports, 2016, 6, 35158.	1.6	338
23	Copper(<scp>ii</scp>) tungstate nanoflake array films: sacrificial template synthesis, hydrogen treatment, and their application as photoanodes in solar water splitting. Nanoscale, 2016, 8, 5892-5901.	2.8	78
24	Photochemical synthesis of iridium submicroparticles and their application in catalytic reduction of methylene blue. Applied Catalysis A: General, 2016, 516, 109-116.	2.2	9
25	Size-controlled electrochemical synthesis of hemispherical gold nanoparticles on ITO substrates. Journal of Electroanalytical Chemistry, 2015, 755, 174-181.	1.9	3
26	Iridium Oxide Nanoparticles and Iridium/Iridium Oxide Nanocomposites: Photochemical Fabrication and Application in Catalytic Reduction of 4-Nitrophenol. ACS Applied Materials & Samp; Interfaces, 2015, 7, 16738-16749.	4.0	106
27	Draining the photoinduced electrons away from an anode: the preparation of Ag/Ag ₃ PO ₄ composite nanoplate photoanodes for highly efficient water splitting. Journal of Materials Chemistry A, 2015, 3, 18991-18999.	5.2	36
28	Electrodeposition of Vertically Aligned Silver Nanoplate Arrays on Indium Tin Oxide Substrates. Journal of Physical Chemistry C, 2015, 119, 20709-20720.	1.5	34
29	Activity and stability of supported gold nano- and submicro-particles toward the electrocatalytic oxidation of carbon monoxide. Applied Catalysis A: General, 2014, 469, 65-73.	2.2	7
30	CuO/Pd composite photocathodes for photoelectrochemical hydrogen evolution reaction. International Journal of Hydrogen Energy, 2014, 39, 7686-7696.	3.8	110
31	Electrodeposition of Vertically Aligned Palladium Nanoneedles and Their Application as Active Substrates for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2014, 118, 9758-9768.	1.5	23
32	WO3 nanoneedles/ \hat{l} ±-Fe2O3/cobalt phosphate composite photoanode for efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2014, 148-149, 304-310.	10.8	88
33	High-aspect-ratio WO3 nanoneedles modified with nickel-borate for efficient photoelectrochemical water oxidation. Electrochimica Acta, 2013, 114, 271-277.	2.6	33
34	Nernst-ping-pong model for evaluating the effects of the substrate concentration and anode potential on the kinetic characteristics of bioanode. Bioresource Technology, 2013, 136, 610-616.	4.8	19
35	Effect of solvent polarity on the assembly behavior of PVP coated rhodium nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 32-38.	2.3	29
36	Dual detection strategy for electrochemical analysis of glucose and nitrite using a partitionally modified electrode. Analyst, The, 2012, 137, 145-152.	1.7	20

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37	Oxygen Reduction Electrocatalyst Based on Strongly Coupled Cobalt Oxide Nanocrystals and Carbon Nanotubes. Journal of the American Chemical Society, 2012, 134, 15849-15857.	6.6	747
38	Shape-controlled electrodeposition of standing Rh nanoplates on indium tin oxide substrates and their electrocatalytic activity toward formic acid oxidation. Electrochimica Acta, 2012, 83, 146-154.	2.6	19
39	Preparation of iridium nano- and submicroparticles on solid substrates by direct surface growth and drop-drying assembly. Rare Metals, 2012, 31, 523-530.	3.6	4
40	Direct electrochemical detection of pyruvic acid by cobalt oxyhydroxide modified indium tin oxide electrodes. Electrochimica Acta, 2011, 56, 10159-10165.	2.6	21
41	Vertically Aligned Singleâ€Walled Carbon Nanotubes by Chemical Assembly – Methodology, Properties, and Applications. Advanced Materials, 2010, 22, 1430-1449.	11.1	84
42	Electrocatalytic activity of supported gold nanoparticles toward CO oxidation: The perimeter effect of goldâ€"support interface. Electrochemistry Communications, 2010, 12, 1622-1625.	2.3	16
43	Comments on â€~Electricâ€Fieldâ€Assisted Growth of Highly Uniform and Oriented Gold Nanotriangles on Conducting Glass Substrates'. Advanced Materials, 2009, 21, 1317-1319.	11.1	6
44	Electrochemical sensing of CO by gold particles electrodeposited on indium tin oxide substrate. Electrochemistry Communications, 2009, 11, 1069-1072.	2.3	11
45	The effect of halide ions on the electrooxidation of CO on gold particles supported by indium tin oxide. Journal of Electroanalytical Chemistry, 2009, 630, 81-90.	1.9	15
46	Potential-Induced Shape Evolution of Gold Nanoparticles Prepared on ITO Substrate. Journal of Physical Chemistry C, 2009, 113, 15796-15800.	1.5	23
47	Electrochemical Identification of Metallic and Semiconducting Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 13346-13348.	1.5	12
48	How Does the Particle Density Affect the Electrochemical Behavior of Gold Nanoparticle Assembly?. Journal of Physical Chemistry C, 2008, 112, 7036-7046.	1.5	33
49	Electrocatalytic oxidation of CO on supported gold nanoparticles and submicroparticles: Support and size effects in electrochemical systems. Journal of Catalysis, 2007, 250, 247-253.	3.1	37
50	Highly hydrophilic and superhydrophobic ZnO nanorod array films. Thin Solid Films, 2007, 515, 7162-7166.	0.8	116
51	Electrochemically Partitioned Assembly of Organosulfur Monolayers and Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 20386-20391.	1.2	20
52	Effect of substrate potentials on the structural disorders of alkanethiol monolayers prepared by electrochemically directed assembly. Journal of Electroanalytical Chemistry, 2006, 597, 103-110.	1.9	17
53	The effect of hydrothermal growth temperature on preparation and photoelectrochemical performance of ZnO nanorod array films. Journal of Solid State Chemistry, 2005, 178, 3210-3215.	1.4	198
54	Photoelectrochemical studies of nanocrystalline TiO2 co-sensitized by novel cyanine dyes. Solar Energy Materials and Solar Cells, 2005, 88, 23-35.	3.0	113

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55	Hydrothermal growth of perpendicularly oriented ZnO nanorod array film and its photoelectrochemical properties. Applied Surface Science, 2005, 249, 71-75.	3.1	129
56	Surface-Enhanced Raman Scattering ofp-Aminothiophenol on a Au(core)/Cu(shell) Nanoparticle Assembly. ChemPhysChem, 2005, 6, 913-918.	1.0	82
57	Hydrothermal growth of well-aligned ZnO nanorod arrays: Dependence of morphology and alignment ordering upon preparing conditions. Journal of Solid State Chemistry, 2005, 178, 1864-1873.	1.4	424
58	Electrochemistry at Chemically Assembled Single-Wall Carbon Nanotube Arrays. Journal of Physical Chemistry B, 2005, 109, 20906-20913.	1.2	77
59	Uniform Electrochemical Deposition of Copper onto Self-Assembled Gold Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 3535-3539.	1.2	12
60	Kinetically Controlled Pt Deposition onto Self-Assembled Au Colloids:Â Preparation of Au (Core)â^'Pt (Shell) Nanoparticle Assemblies. Chemistry of Materials, 2004, 16, 3239-3245.	3.2	50
61	Preparation and Characterization of Highly Oriented ZnO Single Crystal Submicrorod Arrays. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2003, 19, 478-480.	2.2	6
62	Chemically Assembled Single-Wall Carbon Nanotubes and their Electrochemistry. ChemPhysChem, 2002, 3, 898-991.	1.0	100
63	Characterization of defects in the formation process of self-assembled thiol monolayers by electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2001, 495, 98-105.	1.9	101
64	Studies of Adsorption Kinetics and Defects of Selfâ€Assembled Thiol Monolayers on Gold by Capacitance Plane Plot. Journal of the Chinese Chemical Society, 2000, 47, 1197-1203.	0.8	8
65	Fractional coverage of defects in self-assembled thiol monolayers on gold. Journal of Electroanalytical Chemistry, 2000, 480, 59-63.	1.9	46
66	A.c. impedance studies of the mechanism of electron transfer across TCNQ modified Au/thiol/lipid bilayer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 175, 203-206.	2.3	3
67	Electrochemical studies for the formation of sodium lauryl sulfate monolayer on an octadecanethiol-coated gold electrode. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 175, 141-145.	2.3	8
68	Photoinduced electron transfer across a gold supported octadecanethiol/phosphatidylcholine hybrid bilayer membrane mediated by C60 in different redox species solution. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 132, 219-224.	2.0	8
69	Studies of structural disorder of self-assembled thiol monolayers on gold by cyclic voltammetry and ac impedance. Journal of Electroanalytical Chemistry, 1999, 464, 61-67.	1.9	130
70	Assessing the apparent effective thickness of alkanethiol self-assembled monolayers in different concentrations of Fe(CN)63â°/Fe(CN)64â° by ac impedance spectroscopy. Journal of Electroanalytical Chemistry, 1999, 470, 9-13.	1.9	51
71	Electron transfer between ferrocene-modified Au/octadecanethiol/lipid BLM electrode and redox couples in solution. Bioelectrochemistry, 1999, 48, 243-247.	1.0	6
72	Unmodified supported thiol/lipid bilayers: studies of structural disorder and conducting mechanism by cyclic voltammetry and AC impedance. Bioelectrochemistry, 1999, 48, 469-475.	1.0	32

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73	Studies of Structural Disorder of Gold Supported Thiol-Lipid Bilayers. Molecular Crystals and Liquid Crystals, 1999, 337, 169-172.	0.3	O
74	Assessing the Apparent Effective Thickness of the Supported Hybrid Bilayer Membranes Consisting of Octadecanethiol and Phospholipid by ac Impedance Spectroscopy. Journal of the Chinese Chemical Society, 1999, 46, 571-576.	0.8	1
75	Ca2+ induced Fe(CN)63â^'/4â^' electron transfer at Pt supported BLM electrode. Bioelectrochemistry, 1998, 44, 285-288.	1.0	21
76	Cyclic voltammetry and a.c. impedance studies of Ca2+-induced ion channels on Pt-BLM. Bioelectrochemistry, 1998, 45, 173-179.	1.0	40
77	Raman spectra in a broad frequency region ofpâ^type porous silicon. Journal of Applied Physics, 1994, 76, 3016-3019.	1.1	36
78	Steplike behavior of photoluminescence peak energy and formation ofpâ€ŧype porous silicon. Applied Physics Letters, 1993, 62, 642-644.	1.5	22
79	Pholuminuksence Studies on Porous Silioon Quantum Confinement Mechanism. Materials Research Society Symposia Proceedings, 1993, 298, 123.	0.1	1