Jianbo Jia

List of Publications by Year in descending order

105 papers	6,026 citations	76031 42 h-index	84171 75 g-index
107 all docs	107 docs citations	107 times ranked	9328 citing authors

#	Article	IF	Citations
1	Two-stage hybrid microalgal electroactive wetland-coupled anaerobic digestion for swine wastewater treatment in South China: Full-scale verification. Science of the Total Environment, 2022, 820, 153312.	3.9	8
2	Stress driven micron- and nano-scale wrinkles as a new class of transport pathways of two-dimensional laminar membranes towards molecular separation. Journal of Membrane Science, 2022, 648, 120354.	4.1	12
3	Double-Sided Nano-ZnO: Superior Antibacterial Properties and Induced Hepatotoxicity in Zebrafish Embryos. Toxics, 2022, 10, 144.	1.6	11
4	Activation of ferrate(VI) by sulfite for effectively degrading iodinated contrast media and synchronously controlling I-DBPs formation. Chemical Engineering Journal, 2022, 442, 136011.	6.6	24
5	Chelation-based metal cation stabilization of graphene oxide membranes towards efficient sieving of mono/divalent ions. Journal of Membrane Science, 2022, 655, 120604.	4.1	8
6	Atomic Fe & FeP nanoparticles synergistically facilitate oxygen reduction reaction of hollow carbon hybrids. Journal of Colloid and Interface Science, 2021, 583, 371-375.	5.0	17
7	Recent advances in electrochemical sensors for antibiotics and their applications. Chinese Chemical Letters, 2021, 32, 609-619.	4.8	92
8	Co_{0.7}Fe_{0.3} NPs confined in yolkâ€“shell N-doped carbon: engineering multi-beaded fibers as an efficient bifunctional electrocatalyst for Znâ€“air batteries. Nanoscale, 2021, 13, 2609-2617.	2.8	19
9	Carbon-nanotube-entangled Co,N-codoped carbon nanocomposite for oxygen reduction reaction. Nanotechnology, 2021, 32, 205402.	1.3	6
10	Novel insights into the anaerobic digestion of propionate via Syntrophobacter fumaroxidans and Geobacter sulfurreducens: Process and mechanism. Water Research, 2021, 200, 117270.	5.3	31
11	A g-C3N4 self-templated preparation of N-doped carbon nanosheets@Co-Co3O4/Carbon nanotubes as high-rate lithium-ion batteriesâ€™ anode materials. Journal of Colloid and Interface Science, 2021, 597, 1-8.	5.0	24
12	Controlling assembly behaviors of laminar GO membranes in organic solvents by altering GO-solvent interactions. Journal of Membrane Science, 2021, 640, 119841.	4.1	10
13	Determination of seawater biochemical oxygen demand based on in situ cultured biofilm reactor. Journal of Electroanalytical Chemistry, 2021, 903, 115872.	1.9	2
14	Recent advances in carbon-based electrocatalysts for oxygen reduction reaction. Chinese Chemical Letters, 2020, 31, 626-634.	4.8	104
15	Graphitic Carbon Nitride (g-C₃N₄)-Derived Bamboo-Like Carbon Nanotubes/Co Nanoparticles Hybrids for Highly Efficient Electrocatalytic Oxygen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 4463-4472.	4.0	108
16	Honeycomb-like 3D N-, P-codoped porous carbon anchored with ultrasmall Fe2P nanocrystals for efficient Zn-air battery. Carbon, 2020, 158, 885-892.	5.4	41
17	Fe/N-doped hollow porous carbon spheres for oxygen reduction reaction. Nanotechnology, 2020, 31, 125404.	1.3	11
18	Co-embedded N-doped hierarchical carbon arrays with boosting electrocatalytic activity for in situ electrochemical detection of H2O2. Sensors and Actuators B: Chemical, 2020, 318, 128242.	4.0	31

#	Article	IF	Citations
19	PBA@PPy derived N-doped mesoporous carbon nanocages embedded with FeCo alloy nanoparticles for enhanced performance of oxygen reduction reaction. Journal of Alloys and Compounds, 2020, 823, 153892.	2.8	19
20	Synergistic effect between atomically dispersed Fe and Co metal sites for enhanced oxygen reduction reaction. Journal of Materials Chemistry A, 2020, 8, 4369-4375.	5.2	100
21	Does the Nitrification-Suppressed BOD5 Test Make Sense?. Environmental Science & Technology, 2020, 54, 5323-5324.	4.6	1
22	New insights into the effect of pH on the mechanism of ofloxacin electrochemical detection in aqueous solution. Physical Chemistry Chemical Physics, 2019, 21, 16282-16287.	1.3	30
23	Bifunctional oxygen electrodes of homogeneous Co4N nanocrystals@N-doped carbon hybrids for rechargeable Zn-air batteries. Carbon, 2019, 151, 10-17.	5.4	67
24	Calixarene-Based {Co26} Burr Puzzle: An Efficient Oxygen Reduction Catalyst. ACS Applied Nano Materials, 2019, 2, 4232-4237.	2.4	14
25	Electrospun SiO₂/WO₃/NiWO₄ decorated carbon nanofibers for an efficient electrocatalytic hydrogen evolution. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 506-513.	1.0	15
26	MOF-derived 3D leaf-like CuCo oxide arrays as an efficient catalyst for highly sensitive glucose detection. Electrochimica Acta, 2019, 308, 243-252.	2.6	37
27	Strongly coupled ultrasmall-Fe₇C₃/N-doped porous carbon hybrids for highly efficient Znâ€“air batteries. Chemical Communications, 2019, 55, 5651-5654.	2.2	35
28	Polymerization-dissolution strategy to prepare Fe, N, S tri-doped carbon nanostructures for Zn-Air batteries. Carbon, 2019, 147, 83-89.	5.4	31
29	A hollow CuOx/NiOy nanocomposite for amperometric and non-enzymatic sensing of glucose and hydrogen peroxide. Mikrochimica Acta, 2019, 186, 74.	2.5	30
30	Cobalt sulfide/N,S-codoped defect-rich carbon nanotubes hybrid as an excellent bi-functional oxygen electrocatalyst. Nanotechnology, 2019, 30, 075402.	1.3	13
31	Facilely electrodeposited coral-like copper micro-/nano-structure arrays with excellent performance in glucose sensing. Sensors and Actuators B: Chemical, 2018, 266, 853-860.	4.0	49
32	Flower-like CoS 2 /MoS 2 nanocomposite with enhanced electrocatalytic activity for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 12246-12253.	3.8	81
33	Three-Dimensional Copper Foam Supported CuO Nanowire Arrays: An Efficient Non-enzymatic Glucose Sensor. Electrochimica Acta, 2017, 235, 519-526.	2.6	113
34	A metalâ€“organic framework devised Coâ€“N doped carbon microsphere/nanofiber hybrid as a free-standing 3D oxygen catalyst. Chemical Communications, 2017, 53, 4034-4037.	2.2	65
35	A new method for developing defect-rich graphene nanoribbons/onion-like carbon@Co nanoparticles hybrid materials as an excellent catalyst for oxygen reactions. Nanoscale, 2017, 9, 1738-1744.	2.8	56
36	Synthesis and ORR electrocatalytic activity of mixed Mnâ€“Co oxides derived from divalent metal-based MIL-53 analogues. Dalton Transactions, 2017, 46, 15512-15519.	1.6	26

#	Article	IF	Citations
37	In situ formed Feâ€“N doped metal organic framework@carbon nanotubes/graphene hybrids for a rechargeable Znâ€“air battery. Chemical Communications, 2017, 53, 12934-12937.	2.2	76
38	Demonstration study of biofilm reactor based rapid biochemical oxygen demand determination of surface water. Sensing and Bio-Sensing Research, 2016, 8, 8-13.	2.2	12
39	Synthesis of copper nanorods for non-enzymatic amperometric sensing of glucose. Mikrochimica Acta, 2016, 183, 2369-2375.	2.5	46
40	N,S-Codoped microporous carbon nanobelts with blooming nanoflowers for oxygen reduction. Journal of Materials Chemistry A, 2016, 4, 5834-5838.	5.2	51
41	Superior oxygen reduction electrocatalysis enabled by integrating hierarchical pores, Fe₃C nanoparticles and bamboo-like carbon nanotubes. Nanoscale, 2016, 8, 959-964.	2.8	51
42	A facile method to prepare Pt/C/TiO2 nanotubes electrode for electro-oxidation of methanol. Electrochimica Acta, 2015, 174, 667-671.	2.6	13
43	Bamboo-like Carbon Nanotube/Fe₃C Nanoparticle Hybrids and Their Highly Efficient Catalysis for Oxygen Reduction. Journal of the American Chemical Society, 2015, 137, 1436-1439.	6.6	786
44	High performance of electrocatalytic oxidation and determination of hydrazine based on Pt nanoparticles/TiO2 nanosheets. Talanta, 2015, 144, 1296-1300.	2.9	32
45	IL-derived N, S co-doped ordered mesoporous carbon for high-performance oxygen reduction. Nanoscale, 2015, 7, 11956-11961.	2.8	73
46	Direct Determination of Trace Dopamine in an Ascorbic Acid Solution at a Bare Glassy Carbon Electrode Using Differential Pulse Voltammetry. Electroanalysis, 2015, 27, 1411-1415.	1.5	2
47	Electrochemical detection of natural estrogens using a graphene/ordered mesoporous carbon modified carbon paste electrode. Analytical Methods, 2015, 7, 8626-8631.	1.3	17
48	Ultrasensitive electrospun nickel-doped carbon nanofibers electrode for sensing paracetamol and glucose. Electrochimica Acta, 2015, 152, 31-37.	2.6	24
49	Dual-doped carbon composite for efficient oxygen reduction via electrospinning and incipient impregnation. Journal of Power Sources, 2015, 274, 595-603.	4.0	29
50	pH-Switchable Electrochemical Sensing Platform based on Chitosan-Reduced Graphene Oxide/Concanavalin A Layer for Assay of Glucose and Urea. Analytical Chemistry, 2014, 86, 1980-1987.	3.2	81
51	Novel Environmental Analytical System based on Combined Biodegradation and Photoelectrocatalytic Detection Principles for Rapid Determination of Organic Pollutants in Wastewaters. Environmental Science & Technology, 2014, 48, 1762-1768.	4.6	22
52	From filter paper to porous carbon composite membrane oxygen reduction catalyst. Chemical Communications, 2014, 50, 11151.	2.2	39
53	Electrochemical Sensing and Biosensing Platform Based on Biomass-Derived Macroporous Carbon Materials. Analytical Chemistry, 2014, 86, 1414-1421.	3.2	202
54	Lanthanideâ€doped TiO₂ nanoparticlesâ€“modified electrode for photoelectrocatalytic degradation of dye. Environmental Progress and Sustainable Energy, 2013, 32, 302-306.	1.3	4

#	Article	IF	Citations
55	Separation of graphene oxide by density gradient centrifugation and study on their morphology-dependent electrochemical properties. Journal of Electroanalytical Chemistry, 2013, 703, 135-145.	1.9	21
56	Nonenzymatic hydrogen peroxide sensor based on a glassy carbon electrode modified with electrospun PdO-NiO composite nanofibers. Mikrochimica Acta, 2013, 180, 1085-1091.	2.5	14
57	Biofilm reactor based real-time analysis of biochemical oxygendemand. Biosensors and Bioelectronics, 2013, 42, 1-4.	5.3	8
58	A reagent-free tubular biofilm reactor for on-line determination of biochemical oxygen demand. Biosensors and Bioelectronics, 2013, 45, 213-218.	5.3	20
59	Chemically modified glassy carbon electrode for electrochemical sensing paracetamol in acidic solution. Journal of Solid State Electrochemistry, 2012, 16, 2967-2977.	1.2	22
60	Controlled electrochemical behavior of indium tin oxide electrode modified with Pd nanoparticles via electrospinning followed by calcination toward nitrite ions. Electrochimica Acta, 2012, 78, 200-204.	2.6	15
61	4â€Phosphatephenyl Covalently Modified Glassy Carbon Electrode for Realâ€Time Electrochemical Monitoring of Paracetamol Release from Electrospun Nanofibers. Electroanalysis, 2012, 24, 1937-1944.	1.5	10
62	Nonenzymatic glucose sensor based on graphene oxide and electrospun NiO nanofibers. Sensors and Actuators B: Chemical, 2012, 171-172, 580-587.	4.0	234
63	Electro-oxidation of methanol based on electrospun PdOâ€“Co3O4 nanofiber modified electrode. International Journal of Hydrogen Energy, 2012, 37, 17947-17953.	3.8	22
64	Replicating hexagonal metal nanorod from ZnO nanorod. Journal of Electroanalytical Chemistry, 2012, 683, 25-30.	1.9	1
65	4-Aminobenzoic acid covalently modified glassy carbon electrode for sensing paracetamol at different temperatures. Journal of Solid State Electrochemistry, 2012, 16, 1363-1368.	1.2	14
66	A biofilm reactor-based approach for rapid on-line determination of biodegradable organic pollutants. Biosensors and Bioelectronics, 2012, 34, 77-82.	5.3	25
67	Effects of Acid Treatment of Ptâ“Ni Alloy Nanoparticles@Graphene on the Kinetics of the Oxygen Reduction Reaction in Acidic and Alkaline Solutions. Journal of Physical Chemistry C, 2011, 115, 379-389.	1.5	138
68	How far can hydroxyl radicals travel? An electrochemical study based on a DNA mediated electron transfer process. Chemical Communications, 2011, 47, 11906.	2.2	37
69	Microwave plasma torch-atomic emission spectrometry for the on-line determination of rare earth elements based on flow injection preconcentration by TiO2â€“graphene composite. Talanta, 2011, 86, 114-120.	2.9	24
70	Effects of morphology of nanostructured ZnO on direct electrochemistry and biosensing properties of glucose oxidase. Journal of Electroanalytical Chemistry, 2011, 656, 198-205.	1.9	61
71	Immobilized multi-species based biosensor for rapid biochemical oxygen demand measurement. Biosensors and Bioelectronics, 2011, 26, 2074-2079.	5.3	31
72	Determination of nitroanilines in hair dye using polymer monolith microextraction coupled with HPLC. Journal of Separation Science, 2011, 34, 675-680.	1.3	17

#	Article	IF	Citations
73	Controlled synthesis of Pt nanoparticles array through electroreduction of cisplatin bound at nucleobases terminated surface and application into H2O2 sensing. Biosensors and Bioelectronics, 2011, 26, 2067-2073.	5.3	15
74	Preparation of sulfonic-functionalized graphene oxide as ion-exchange material and its application into electrochemiluminescence analysis. Biosensors and Bioelectronics, 2011, 26, 3136-3141.	5.3	54
75	Voltammetric Determination of Ferulic Acid by Didodecyldimethyl-ammonium Bromide/Nafion Composite Film-modified Carbon Paste Electrode. Analytical Sciences, 2010, 26, 907-911.	0.8	26
76	A study on the electroanalytical performance of a bismuth film-coated and Nafion-coated glassy carbon electrode in alkaline solutions. Mikrochimica Acta, 2010, 169, 221-225.	2.5	15
77	Pt modified TiO2 nanotubes electrode: Preparation and electrocatalytic application for methanol oxidation. International Journal of Hydrogen Energy, 2010, 35, 12169-12173.	3.8	102
78	Poly(methacrylic acid-co-ethylene glycol dimethacrylate) monolith microextraction coupled with high performance liquid chromatography for the determination of phthalate esters in cosmetics. Analytica Chimica Acta, 2010, 676, 103-108.	2.6	50
79	One-step Route to Fabrication of Pd Nanoparticles Modified Au Electrode and Its Electrocatalytic Activity for Dissolved Oxygen. Chinese Journal of Analytical Chemistry, 2010, 38, 1687-1691.	0.9	0
80	Electrochemical determination of nitrobenzene using bismuth-film modified carbon paste electrode in the presence of cetyltrimethylammonium bromide. Analytical Methods, 2010, 2, 1095.	1.3	49
81	Voltammetric determination of Pb2+ and Cd2+ with montmorillonite-bismuth-carbon electrodes. Applied Clay Science, 2010, 50, 154-157.	2.6	48
82	Simultaneous determination of Cd(II) and Pb(II) by differential pulse anodic stripping voltammetry based on graphite nanofibersâ€“Nafion composite modified bismuth film electrode. Talanta, 2010, 83, 332-336.	2.9	66
83	A Templateless, Surfactantless, Simple Electrochemical Route to a Dendritic Gold Nanostructure and Its Application to Oxygen Reduction. Langmuir, 2010, 26, 7627-7631.	1.6	79
84	Generation of OH radicals in oxygen reduction reaction at Ptâ€“Co nanoparticles supported on graphene in alkaline solutions. Chemical Communications, 2010, 46, 3369.	2.2	64
85	Double-template synthesis of platinum nanomaterials for oxygen reduction. Mikrochimica Acta, 2009, 166, 151-156.	2.5	8
86	Antioxidant Sensors Based on Iron Diethylenetriaminepentaacetic Acid, Hematin, and Hemoglobin Modified TiO₂ Nanoparticle Printed Electrodes. Analytical Chemistry, 2009, 81, 5381-5389.	3.2	29
87	Hydrogen peroxide biosensor based on horseradish peroxidaseâ€“Au nanoparticles at a viologen grafted glassy carbon electrode. Mikrochimica Acta, 2008, 163, 237-241.	2.5	15
88	Properties of Poly(sodium 4â€styrenesulfonate)â€Ionic Liquid Composite Film and Its Application in the Determination of Trace Metals Combined with Bismuth Film Electrode. Electroanalysis, 2008, 20, 542-549.	1.5	32
89	A Simple and Inexpensive Method for Fabrication of Ultramicroelectrode Array and Its Application for the Detection of Dissolved Oxygen. Electroanalysis, 2008, 20, 797-802.	1.5	11
90	Sensitive determination of Cd and Pb by differential pulse stripping voltammetry with in situ bismuth-modified zeolite doped carbon paste electrodes. Electrochimica Acta, 2008, 53, 2177-2182.	2.6	106

#	Article	IF	Citations
91	Platinum-Coated Gold Nanoporous Film Surface: Electrodeposition and Enhanced Electrocatalytic Activity for Methanol Oxidation. Langmuir, 2008, 24, 5932-5936.	1.6	112
92	Preparation of Biofilm Electrode with Xanthomonas sp. and Carbon Nanotubes and the Application to Rapid Biochemical Oxygen Demand Analysis in Highâ€Salt Condition. Water Environment Research, 2008, 80, 699-702.	1.3	5
93	Photochemical formation of silver and gold nanostructures at the airâ€“water interface and their electrocatalytic properties. Nanotechnology, 2007, 18, 245601.	1.3	19
94	Structure and Electrochemical Properties of Carbon Films Prepared by a Electron Cyclotron Resonance Sputtering Method. Analytical Chemistry, 2007, 79, 98-105.	3.2	93
95	Nafion/Poly(sodium 4â€styrenesulfonate) Mixed Coating Modified Bismuth Film Electrode for the Determination of Trace Metals by Anodic Stripping Voltammetry. Electroanalysis, 2007, 19, 1845-1849.	1.5	43
96	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. Biosensors and Bioelectronics, 2007, 22, 1527-1531.	5.3	44
97	PVC membrane electrode based on triheptyl dodecyl ammonium iodide for the selective determination of molybdate(VI). Analytica Chimica Acta, 2007, 589, 33-38.	2.6	3
98	Electrochemical Performance of Angstrom Level Flat Sputtered Carbon Film Consisting of sp2and sp3Mixed Bonds. Journal of the American Chemical Society, 2006, 128, 7144-7145.	6.6	170
99	Single-wall carbon nanotube-based voltammetric sensor and biosensor. Biosensors and Bioelectronics, 2004, 20, 579-584.	5.3	70
100	Simultaneous Determination of Dopamine and Ascorbic Acid at an In-Site Functionalized Self-Assembled Monolayer on Gold Electrode. Electroanalysis, 2004, 16, 1413-1418.	1.5	65
101	Organically Modified Sol-Gel/Chitosan Composite Based Glucose Biosensor. Electroanalysis, 2003, 15, 608-612.	1.5	117
102	Co-immobilized microbial biosensor for BOD estimation based on solâ€“gel derived composite material. Biosensors and Bioelectronics, 2003, 18, 1023-1029.	5.3	96
103	Hydrogen peroxide biosensor based on microperoxidase-11 entrapped in lipid membrane. Biosensors and Bioelectronics, 2003, 18, 1225-1230.	5.3	49
104	A Method to Construct a Third-Generation Horseradish Peroxidase Biosensor:Â Self-Assembling Gold Nanoparticles to Three-Dimensional Solâ^'Gel Network. Analytical Chemistry, 2002, 74, 2217-2223.	3.2	637
105	Direct electrochemistry of hemoglobin in eggâ€“phosphatidylcholine films and its catalysis to H2O2. Biosensors and Bioelectronics, 2002, 17, 741-746.	5.3	119