

# Yan-Xia Jiang

## List of Publications by Year in descending order

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71  
papers

3,715  
citations

126907

33  
h-index

128289

60  
g-index

72  
all docs

72  
docs citations

72  
times ranked

5071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Controlled Synthesis of Gold Nanoparticles in Deep Eutectic Solvents for Studies of Structure-Functionality Relationships in Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9100-9103.	13.8	352
2	Ordered mesoporous carbon/sulfur nanocomposite of high performances as cathode for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2011, 56, 9549-9555.	5.2	329
3	Construction of Highly Active Metal-Containing Nanoparticles and FeCo <sub>4</sub> Composite Sites for the Acidic Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21976-21979.	13.8	157
4	Structure Design and Performance Tuning of Nanomaterials for Electrochemical Energy Conversion and Storage. <i>Accounts of Chemical Research</i> , 2016, 49, 2569-2577.	15.6	131
5	Engineering PtRu bimetallic nanoparticles with adjustable alloying degree for methanol electrooxidation: Enhanced catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118345.	20.2	129
6	Interfacial Structure of Water as a New Descriptor of the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22397-22402.	13.8	125
7	In-situ FTIR spectroscopic studies of electrocatalytic reactions and processes. <i>Nano Energy</i> , 2016, 29, 414-427.	16.0	108
8	The Quasi-Pt Allotrope Catalyst: Hollow PtCo@Pt on Nitrogen-Doped Carbon toward Superior Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1807340.	14.9	97
9	Electrochemically shape-controlled synthesis of trapezohedral platinum nanocrystals with high electrocatalytic activity. <i>Chemical Communications</i> , 2012, 48, 9531.	4.1	95
10	Tuning the Shape and Catalytic Activity of Fe Nanocrystals from Rhombic Dodecahedra and Tetragonal Bipyramids to Cubes by Electrochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 10860-10862.	13.7	94
11	Tuning Pt-skin to Ni-rich surface of Pt <sub>3</sub> Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electro-oxidation. <i>Nano Energy</i> , 2016, 19, 198-209.	16.0	94
12	Platinum-Cobalt Bimetallic Nanoparticles with Pt Skin for Electro-Oxidation of Ethanol. <i>ACS Catalysis</i> , 2017, 7, 892-895.	11.2	89
13	Rational Design and Synthesis of Low-Temperature Fuel Cell Electrocatalysts. <i>Electrochemical Energy Reviews</i> , 2018, 1, 54-83.	25.5	87
14	Nano-geometric deformation and synergistic Co nanoparticles-Co-N <sub>4</sub> composite sites for proton exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2021, 14, 5958-5967.	30.8	86
15	High activity of cubic PtRh alloys supported on graphene towards ethanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13662.	2.8	85
16	Engineering phase and surface composition of Pt <sub>3</sub> Co nanocatalysts: A strategy for enhancing CO tolerance. <i>Nano Energy</i> , 2017, 34, 224-232.	16.0	84
17	A novel composite microporous polymer electrolyte prepared with molecule sieves for Li-ion batteries. <i>Journal of Power Sources</i> , 2006, 160, 1320-1328.	7.8	78
18	Facile Preparation of Carbon Shells-Coated O-Doped Molybdenum Carbide Nanoparticles as High Selective Electrocatalysts for Nitrogen Reduction Reaction under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31869-31877.	8.0	78

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19	Stepwise pyrolysis treatment as an efficient strategy to enhance the stability performance of Fe-NX/C electrocatalyst towards oxygen reduction reaction and proton exchange membrane fuel cell. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120311.	20.2	76
20	PtBi intermetallic and PtBi intermetallic with the Bi-rich surface supported on porous graphitic carbon towards HCOOH electro-oxidation. <i>Electrochimica Acta</i> , 2015, 162, 254-262.	5.2	68
21	Does the oxophilic effect serve the same role for hydrogen evolution/oxidation reaction in alkaline media?. <i>Nano Energy</i> , 2019, 62, 601-609.	16.0	68
22	Flavins mediate extracellular electron transfer in Gram-positive <i>Bacillus megaterium</i> strain LLD-1. <i>Bioelectrochemistry</i> , 2018, 119, 196-202.	4.6	61
23	Fabrication of a chemically modified electrode containing 12-molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate. <i>Analytica Chimica Acta</i> , 1999, 394, 73-80.	5.4	50
24	Seizing gaseous Fe <sup>2+</sup> to densify O <sub>2</sub> -accessible Fe-N <sub>4</sub> sites for high-performance proton exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2022, 15, 3033-3040.	30.8	49
25	Ordered platinum-bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5214-5220.	10.3	48
26	A comparative investigation of metal-support interactions on the catalytic activity of Pt nanoparticles for ethanol oxidation in alkaline medium. <i>Journal of Power Sources</i> , 2016, 311, 81-90.	7.8	45
27	High selectivity PtRh/RGO catalysts for ethanol electro-oxidation at low potentials: Enhancing the efficiency of CO <sub>2</sub> from alcoholic groups. <i>Electrochimica Acta</i> , 2018, 292, 208-216.	5.2	44
28	Construction of Highly Active Metal-Containing Nanoparticles and FeCo <sub>4</sub> Composite Sites for the Acidic Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2020, 132, 22160-22163.	2.0	43
29	High activity of PtBi intermetallics supported on mesoporous carbon towards HCOOH electro-oxidation. <i>Electrochemistry Communications</i> , 2012, 25, 105-108.	4.7	41
30	Engineering the Near-Surface of PtRu <sub>3</sub> Nanoparticles to Improve Hydrogen Oxidation Activity in Alkaline Electrolyte. <i>Small</i> , 2021, 17, e2006698.	10.0	41
31	A novel PEO-based composite solid-state polymer electrolyte with methyl group-functionalized SBA-15 filler for rechargeable lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 353-361.	2.5	40
32	Novel phenomenon of enhancement of IR absorption of CO adsorbed on nanoparticles of Pd confined in supercages of Y-zeolite. <i>Chemical Physics Letters</i> , 2001, 344, 463-470.	2.6	38
33	Interactions between iron mineral-humic complexes and hexavalent chromium and the corresponding bio-effects. <i>Environmental Pollution</i> , 2018, 241, 265-271.	7.5	34
34	Enhanced IR absorption of CO adsorbed on Pd nanoparticles embedded in the mesoporous molecular sieve SBA-15. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 15-21.	3.8	31
35	Electrocatalytic oxidation of carbon monoxide and methanol at Pt nanoparticles confined in SBA-15: voltammetric and in situ infrared spectroscopic studies. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 363-370.	2.5	29
36	Preparation of Pt nanoparticles supported on ordered mesoporous carbon FDU-15 for electrocatalytic oxidation of CO and methanol. <i>Electrochimica Acta</i> , 2012, 67, 127-132.	5.2	29

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37	Electrochemical in situ FTIR spectroscopy studies directly extracellular electron transfer of <i>Shewanella oneidensis</i> MR-1. <i>Electrochimica Acta</i> , 2015, 170, 131-139.	5.2	27
38	Random alloy and intermetallic nanocatalysts in fuel cell reactions. <i>Nanoscale</i> , 2020, 12, 19557-19581.	5.6	27
39	One-pot synthesis of single-crystalline PtPb nanodendrites with enhanced activity for electrooxidation of formic acid. <i>Chemical Communications</i> , 2016, 52, 4493-4496.	4.1	25
40	Boosting the ORR performance of Fe-N/C catalyst via increasing the density and modifying the electronic structure of Fe-NX active sites. <i>Electrochimica Acta</i> , 2022, 403, 139604.	5.2	24
41	LiCoO <sub>2</sub> electrode/electrolyte interface of Li-ion batteries investigated by electrochemical impedance spectroscopy. <i>Science in China Series B: Chemistry</i> , 2007, 50, 776-783.	0.8	22
42	In situ FTIR spectroscopic studies of (bi)sulfate adsorption on electrodes of Pt nanoparticles supported on different substrates. <i>Electrochimica Acta</i> , 2010, 55, 2065-2072.	5.2	22
43	Synthesis and Durability of Highly Dispersed Platinum Nanoparticles Supported on Ordered Mesoporous Carbon and Their Electrocatalytic Properties for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19055-19061.	3.1	22
44	An electrochemical impedance spectroscopic study of the electronic and ionic transport properties of LiCoO <sub>2</sub> cathode. <i>Science Bulletin</i> , 2007, 52, 1187-1195.	1.7	21
45	Electrocatalytic reduction of nitric oxide on Pt nanocrystals of different shape in sulfuric acid solutions. <i>Electrochimica Acta</i> , 2010, 55, 8273-8279.	5.2	21
46	CeO <sub>2</sub> nanorods with high energy surfaces as electrocatalytical supports for methanol electrooxidation. <i>Electrochimica Acta</i> , 2015, 182, 1078-1084.	5.2	21
47	Silver Nanoparticles Confined in SBA-15 Mesoporous Silica and the Application as a Sensor for Detecting Hydrogen Peroxide. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-10.	2.7	20
48	FTIR Studies of Zeolite Matrix Effects on the Properties of Palladium Clusters Confined in the Supercages of NaX and NaY. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7637-7642.	2.6	19
49	TEM study of fivefold twined gold nanocrystal formation mechanism. <i>Materials Letters</i> , 2014, 116, 299-303.	2.6	19
50	Interaction between in vivo bioluminescence and extracellular electron transfer in <i>Shewanella woodyi</i> via charge and discharge. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1746-1750.	2.8	19
51	Self-Template Synthesis of Atomically Dispersed Fe/N-Codoped Nanocarbon as Efficient Bifunctional Alkaline Oxygen Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 625-634.	5.1	19
52	Electrochemical and in situ FTIR spectroscopic studies of gentian violet as a novel leveler in through-holes metallization for printed circuit board applications. <i>Electrochimica Acta</i> , 2022, 410, 140018.	5.2	19
53	Direct Electrochemistry and Electrocatalysis of Myoglobin Immobilized on Graphene-ionic Liquid Nanocomposite Film. <i>Electroanalysis</i> , 2010, 22, 2297-2302.	2.9	16
54	Shape Evolution of Platinum Nanocrystals by Electrochemistry. <i>Electrochimica Acta</i> , 2014, 140, 345-351.	5.2	16

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55	Studies of the first lithiation of graphite materials by electrochemical impedance spectroscopy. <i>Science Bulletin</i> , 2006, 51, 1055-1059.	1.7	15
56	Tuning atomic Pt site surface on PtAu alloy toward electro-oxidation of formic acid. <i>Materials Today Energy</i> , 2022, 27, 101028.	4.7	14
57	Voltammetric determination of 5-hydroxydoyle-3-acetic acid in human gastric juice. <i>Talanta</i> , 2000, 50, 1261-1266.	5.5	13
58	Self-Assembly Film of Zeolite Y Nanocrystals Loading Palladium on an Au Electrode for Electrochemical Applications. <i>Electroanalysis</i> , 2006, 18, 1173-1178.	2.9	13
59	Interfacial Structure of Water as a New Descriptor of the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2020, 132, 22583-22588.	2.0	11
60	MOF-derived single site catalysts with Electron-Rich Fe-N4 sites for efficient elimination of trichloroacetamide DBP. <i>Chemical Engineering Journal</i> , 2022, 446, 137060.	12.7	11
61	Revealing the optimal configuration for synergy effect of metal nanoparticles and MN4 sites for oxygen reduction reaction. <i>Nano Energy</i> , 2022, 100, 107440.	16.0	8
62	Redox Electrochemistry of Silicon Dioxide Gel Films Containing 1:12 Molybdosilicate Acid and Its Electrochemical Activity toward the Reduction of Nitrite Ions. <i>Microchemical Journal</i> , 1999, 62, 344-353.	4.5	6
63	Molybdenum Carbide Prepared by a Salt Sealing Approach as an Electrocatalyst for Enhanced Hydrogen Evolution Reaction. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 523-530.	4.9	6
64	Anomalous IR optical properties of aggregates of Pd nanoparticles induced through electrochemical cyclic voltammetry. <i>Electrochimica Acta</i> , 2005, 50, 3093-3099.	5.2	4
65	Facile Chemical Analysis of Live Cell Activities by Fourier Transform Infrared (FTIR) Spectroscopy in the Transmission Mode. <i>Vibrational Spectroscopy</i> , 2020, 109, 103068.	2.2	4
66	Experimental and DFT studies of oxygen reduction reaction promoted by binary site Fe/Co-N-C catalyst in acid. <i>Journal of Electroanalytical Chemistry</i> , 2022, 914, 116322.	3.8	4
67	Nanocrystal Catalysts of High-Energy Surface and Activity. <i>Studies in Surface Science and Catalysis</i> , 2017, 177, 439-475.	1.5	2
68	Special IR properties of palladium nanoparticles and their aggregations in CO molecular probe infrared spectroscopy. <i>Science Bulletin</i> , 2004, 49, 1581-1585.	1.7	1
69	Self-Assembled CoPt Nanoparticles Monolayer Film and Its IR Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8265-8270.	0.9	1
70	ENHANCEMENT OF IR ABSORPTION OF CO ADSORBED ON PALLADIUM NANOPARTICLES PREPARED BY SHIP-IN-A-BOTTLE IN SUPERCAGES OF NaA ZEOLITE. , 2002, , .		1
71	Cyclic voltammetric and <i>in situ</i> FTIR spectroscopic studies of redox of nitric oxide and carbon monoxide coadlayers on Pt electrode. <i>Scientia Sinica Chimica</i> , 2011, 41, 1482-1488.	0.4	0