

Jinghong Li

List of Publications by Year in descending order

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111
papers

32,251
citations

10979

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22808

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docs citations

113
times ranked

36714
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Oxide: Preparation, Functionalization, and Electrochemical Applications. <i>Chemical Reviews</i> , 2012, 112, 6027-6053.	23.0	3,024
2	P25-Graphene Composite as a High Performance Photocatalyst. <i>ACS Nano</i> , 2010, 4, 380-386.	7.3	2,946
3	Nitrogen-Doped Graphene and Its Application in Electrochemical Biosensing. <i>ACS Nano</i> , 2010, 4, 1790-1798.	7.3	1,977
4	Measurement of the quantum capacitance of graphene. <i>Nature Nanotechnology</i> , 2009, 4, 505-509.	15.6	1,459
5	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. <i>Trends in Biotechnology</i> , 2011, 29, 205-212.	4.9	1,327
6	Graphene-based materials in electrochemistry. <i>Chemical Society Reviews</i> , 2010, 39, 3157.	18.7	1,297
7	Preparation, Structure, and Electrochemical Properties of Reduced Graphene Sheet Films. <i>Advanced Functional Materials</i> , 2009, 19, 2782-2789.	7.8	1,132
8	Application of graphene-modified electrode for selective detection of dopamine. <i>Electrochemistry Communications</i> , 2009, 11, 889-892.	2.3	1,067
9	Aptamer/Graphene Oxide Nanocomplex for <i>in Situ</i> Molecular Probing in Living Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 9274-9276.	6.6	1,020
10	Nanostructured carbon for energy storage and conversion. <i>Nano Energy</i> , 2012, 1, 195-220.	8.2	895
11	Graphene Fluorescence Resonance Energy Transfer Aptasensor for the Thrombin Detection. <i>Analytical Chemistry</i> , 2010, 82, 2341-2346.	3.2	848
12	Preparation and electrochemical performance for methanol oxidation of Pt/graphene nanocomposites. <i>Electrochemistry Communications</i> , 2009, 11, 846-849.	2.3	675
13	Highly Active and Stable Catalysts of Phytic Acid-Derivative Transition Metal Phosphides for Full Water Splitting. <i>Journal of the American Chemical Society</i> , 2016, 138, 14686-14693.	6.6	647
14	Tuning Photoelectrochemical Performances of Ag ⁺ /TiO ₂ Nanocomposites via Reduction/Oxidation of Ag. <i>Chemistry of Materials</i> , 2008, 20, 6543-6549.	3.2	546
15	Graphene and Graphene-like Layered Transition Metal Dichalcogenides in Energy Conversion and Storage. <i>Small</i> , 2014, 10, 2165-2181.	5.2	535
16	Two-dimensional layered MoS ₂ : rational design, properties and electrochemical applications. <i>Energy and Environmental Science</i> , 2016, 9, 1190-1209.	15.6	532
17	Cobalt Phosphide Hollow Polyhedron as Efficient Bifunctional Electrocatalysts for the Evolution Reaction of Hydrogen and Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2158-2165.	4.0	486
18	Earth-Rich Transition Metal Phosphide for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1600087.	10.2	437

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19	A low-temperature method to produce highly reduced graphene oxide. <i>Nature Communications</i> , 2013, 4, 1539.	5.8	436
20	Graphene Oxide Amplified Electrogenerated Chemiluminescence of Quantum Dots and Its Selective Sensing for Glutathione from Thiol-Containing Compounds. <i>Analytical Chemistry</i> , 2009, 81, 9710-9715.	3.2	397
21	Preparation of SnO ₂ -Nanocrystal/Graphene-Nanosheets Composites and Their Lithium Storage Ability. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21770-21774.	1.5	377
22	Graphene as a Novel Matrix for the Analysis of Small Molecules by MALDI-TOF MS. <i>Analytical Chemistry</i> , 2010, 82, 6208-6214.	3.2	365
23	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. <i>Energy and Environmental Science</i> , 2013, 6, 1362.	15.6	355
24	Positive Potential Operation of a Cathodic Electrogenerated Chemiluminescence Immunosensor Based on Luminol and Graphene for Cancer Biomarker Detection. <i>Analytical Chemistry</i> , 2011, 83, 3817-3823.	3.2	347
25	Ionic liquids in surface electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1685.	1.3	327
26	Graphene-based transition metal oxide nanocomposites for the oxygen reduction reaction. <i>Nanoscale</i> , 2015, 7, 1250-1269.	2.8	290
27	Self-Assembled Graphene-Enzyme Hierarchical Nanostructures for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2010, 20, 3366-3372.	7.8	256
28	Facilitated Lithium Storage in MoS ₂ Overlayers Supported on Coaxial Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1675-1682.	1.5	253
29	Black phosphorus quantum dots: synthesis, properties, functionalized modification and applications. <i>Chemical Society Reviews</i> , 2018, 47, 6795-6823.	18.7	250
30	Photoelectrochemical Study on Charge Transfer Properties of TiO ₂ -B Nanowires with an Application as Humidity Sensors. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22029-22034.	1.2	247
31	Electrochemical Gate-Controlled Charge Transport in Graphene in Ionic Liquid and Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2009, 131, 9908-9909.	6.6	238
32	Au/TiO ₂ /Au as a Plasmonic Coupling Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6490-6494.	1.5	220
33	Self assembly of acetylcholinesterase on a gold nanoparticles-graphene nanosheet hybrid for organophosphate pesticide detection using polyelectrolyte as a linker. <i>Journal of Materials Chemistry</i> , 2011, 21, 5319.	6.7	219
34	Hierarchical Structures Based on Two-Dimensional Nanomaterials for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601906.	10.2	216
35	In situ simultaneous monitoring of ATP and GTP using a graphene oxide nanosheet-based sensing platform in living cells. <i>Nature Protocols</i> , 2014, 9, 1944-1955.	5.5	215
36	Highly efficient and sustainable non-precious-metal Fe-N-C electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2527-2539.	5.2	214

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37	In Situ Coupling of CoP Polyhedrons and Carbon Nanotubes as Highly Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>Small</i> , 2017, 13, 1602873.	5.2	212
38	Fabrication of polymeric ionic liquid/graphene nanocomposite for glucose oxidase immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2632-2637.	5.3	196
39	One-Pot Synthesis, Characterization, and Enhanced Photocatalytic Activity of a BiOBr-Graphene Composite. <i>Chemistry - A European Journal</i> , 2012, 18, 14359-14366.	1.7	191
40	In Situ Live Cell Sensing of Multiple Nucleotides Exploiting DNA/RNA Aptamers and Graphene Oxide Nanosheets. <i>Analytical Chemistry</i> , 2013, 85, 6775-6782.	3.2	189
41	Preparation and Enhanced Photoelectrochemical Performance of Coupled Bicomponent ZnO-TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2008, 112, 117-122.	1.5	186
42	The graphene/nucleic acid nanobiointerface. <i>Chemical Society Reviews</i> , 2015, 44, 6954-6980.	18.7	181
43	DNA-Directed Self-Assembly of Graphene Oxide with Applications to Ultrasensitive Oligonucleotide Assay. <i>ACS Nano</i> , 2011, 5, 3817-3822.	7.3	177
44	Metal oxide hollow nanostructures: Fabrication and Li storage performance. <i>Journal of Power Sources</i> , 2013, 238, 376-387.	4.0	174
45	Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward water-soluble metal-carbon hybrid nanostructures via self-assembly. <i>Journal of Materials Chemistry</i> , 2010, 20, 900-906.	6.7	167
46	Sensitive and Rapid Screening of T4 Polynucleotide Kinase Activity and Inhibition Based on Coupled Exonuclease Reaction and Graphene Oxide Platform. <i>Analytical Chemistry</i> , 2011, 83, 8396-8402.	3.2	163
47	Sensitive Electrochemical Aptamer Biosensor for Dynamic Cell Surface N-Glycan Evaluation Featuring Multivalent Recognition and Signal Amplification on a Dendrimer-Graphene Electrode Interface. <i>Analytical Chemistry</i> , 2014, 86, 4278-4286.	3.2	158
48	Interfacial Bioelectrochemistry: Fabrication, Properties and Applications of Functional Nanostructured Biointerfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2351-2367.	1.5	155
49	Uniform and rich-wrinkled electrophoretic deposited graphene film: a robust electrochemical platform for TNT sensing. <i>Chemical Communications</i> , 2010, 46, 5882.	2.2	153
50	Layer-by-layer assembly of chemical reduced graphene and carbon nanotubes for sensitive electrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2012, 35, 63-68.	5.3	150
51	A Hybrid Electrochemical-Colorimetric Sensing Platform for Detection of Explosives. <i>Journal of the American Chemical Society</i> , 2009, 131, 1390-1391.	6.6	146
52	V-Shaped Tin Oxide Nanostructures Featuring a Broad Photocurrent Signal: An Effective Visible-Light-Driven Photocatalyst. <i>Small</i> , 2006, 2, 1436-1439.	5.2	140
53	Fabrication of a Biocompatible and Conductive Platform Based on a Single-Stranded DNA/Graphene Nanocomposite for Direct Electrochemistry and Electrocatalysis. <i>Chemistry - A European Journal</i> , 2010, 16, 8133-8139.	1.7	139
54	Carbon-coated hollow mesoporous FeP microcubes: an efficient and stable electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8974-8977.	5.2	137

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55	Co ₉ S ₈ nanoparticles anchored on nitrogen and sulfur dual-doped carbon nanosheets as highly efficient bifunctional electrocatalyst for oxygen evolution and reduction reactions. <i>Nanoscale</i> , 2017, 9, 12432-12440.	2.8	128
56	Duplex DNA/Graphene Oxide Biointerface: From Fundamental Understanding to Specific Enzymatic Effects. <i>Advanced Functional Materials</i> , 2012, 22, 3083-3088.	7.8	127
57	Direct electrochemistry and electrocatalysis based on film of horseradish peroxidase intercalated into layered titanate nano-sheets. <i>Biosensors and Bioelectronics</i> , 2007, 23, 102-106.	5.3	125
58	Facile Synthesis of Wide-Bandgap Fluorinated Graphene Semiconductors. <i>Chemistry - A European Journal</i> , 2011, 17, 8896-8903.	1.7	121
59	Facile "Spot-Heating" Synthesis of Carbon Dots/Carbon Nitride for Solar Hydrogen Evolution Synchronously with Contaminant Decomposition. <i>Advanced Functional Materials</i> , 2018, 28, 1706462.	7.8	121
60	Quantum dots sensitized graphene: In situ growth and application in photoelectrochemical cells. <i>Electrochemistry Communications</i> , 2010, 12, 483-487.	2.3	118
61	Molybdenum Carbide-Decorated Metallic Cobalt@Nitrogen-Doped Carbon Polyhedrons for Enhanced Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018, 14, e1704227.	5.2	114
62	Unique Hierarchical Mo ₂ C/C Nanosheet Hybrids as Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41314-41322.	4.0	112
63	A novel nickel-based mixed rare-earth oxide/activated carbon supercapacitor using room temperature ionic liquid electrolyte. <i>Electrochimica Acta</i> , 2006, 51, 1925-1931.	2.6	95
64	Electrochemical DNA sensor by the assembly of graphene and DNA-conjugated gold nanoparticles with silver enhancement strategy. <i>Analyst</i> , The, 2011, 136, 4732.	1.7	95
65	Three-Dimensional Nitrogen-Doped Graphene/MnO Nanoparticle Hybrids as a High-Performance Catalyst for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8032-8037.	1.5	92
66	Polycrystalline CoP/CoP ₂ Structures for Efficient Full Water Splitting. <i>ChemElectroChem</i> , 2018, 5, 701-707.	1.7	90
67	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. <i>Journal of Materials Chemistry</i> , 2009, 19, 8707.	6.7	77
68	Energy-Efficient Photodegradation of Azo Dyes with TiO ₂ Nanoparticles Based on Photoisomerization and Alternate UV-Visible Light. <i>Environmental Science & Technology</i> , 2010, 44, 1107-1111.	4.6	77
69	Graphene-based hollow spheres as efficient electrocatalysts for oxygen reduction. <i>Nanoscale</i> , 2013, 5, 10839.	2.8	75
70	Titanium Nitride Nanocrystals on Nitrogen-Doped Graphene as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2013, 19, 14781-14786.	1.7	73
71	±- and ³ -Fe ₂ O ₃ nanoparticle/nitrogen doped carbon nanotube catalysts for high-performance oxygen reduction reaction. <i>Science China Materials</i> , 2015, 58, 683-692.	3.5	73
72	Flawed MoO ₂ belts transformed from MoO ₃ on a graphene template for the hydrogen evolution reaction. <i>Nanoscale</i> , 2015, 7, 7040-7044.	2.8	73

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73	Highly Efficient, Stable Electrocatalytic Hydrogen Evolution in Acid Media by Amorphous Fe ₃ O ₄ P Coating Fe ₂ N Supported on Reduced Graphene Oxide. <i>Small</i> , 2018, 14, e1801717.	5.2	72
74	Preparation and aggregate state regulation of co-assembly graphene oxide-porphyrin composite Langmuir films via surface-modified graphene oxide sheets. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 584, 124023.	2.3	71
75	Efficient Analysis of Non-Polar Environmental Contaminants by MALDI-TOF MS with Graphene as Matrix. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1294-1298.	1.2	68
76	SnO ₂ hollow nanospheres enclosed by single crystalline nanoparticles for highly efficient dye-sensitized solar cells. <i>CrystEngComm</i> , 2012, 14, 5177.	1.3	67
77	Recent Advances in Transition Metal Phosphide Electrocatalysts for Water Splitting under Neutral pH Conditions. <i>ChemElectroChem</i> , 2020, 7, 3578-3589.	1.7	63
78	Polyhedral AgBr Microcrystals with an Increased Percentage of Exposed {111} Facets as a Highly Efficient Visible-Light Photocatalyst. <i>Chemistry - A European Journal</i> , 2012, 18, 4620-4626.	1.7	62
79	Applications of graphene and its derivatives in intracellular biosensing and bioimaging. <i>Analyst</i> , The, 2016, 141, 4541-4553.	1.7	58
80	Nanomaterials in carbohydrate biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 58, 54-70.	5.8	55
81	Photoelectrochemical study of organic-inorganic hybrid thin films via electrostatic layer-by-layer assembly. <i>Electrochemistry Communications</i> , 2007, 9, 2151-2156.	2.3	51
82	Ultrasensitive detection of cancer cells and glycan expression profiling based on a multivalent recognition and alkaline phosphatase-responsive electrogenerated chemiluminescence biosensor. <i>Nanoscale</i> , 2014, 6, 11196-11203.	2.8	51
83	New role of graphene oxide as active hydrogen donor in the recyclable palladium nanoparticles catalyzed ullmann reaction in environmental friendly ionic liquid/supercritical carbon dioxide system. <i>Journal of Materials Chemistry</i> , 2011, 21, 3485.	6.7	50
84	Rapidly catalysis of oxygen evolution through sequential engineering of vertically layered FeNi structure. <i>Nano Energy</i> , 2018, 43, 359-367.	8.2	49
85	Fabrication of an electrochemical platform based on the self-assembly of graphene oxide-multiwall carbon nanotube nanocomposite and horseradish peroxidase: direct electrochemistry and electrocatalysis. <i>Nanotechnology</i> , 2011, 22, 494010.	1.3	45
86	Sucrose-Assisted Loading of LiFePO ₄ Nanoparticles on Graphene for High-Performance Lithium-Ion Battery Cathodes. <i>Chemistry - A European Journal</i> , 2013, 19, 5631-5636.	1.7	45
87	Co ₃ O ₄ Hollow Polyhedrons as Bifunctional Electrocatalysts for Reduction and Evolution Reactions of Oxygen. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 887-895.	1.2	45
88	Highly reduced graphene oxide supported Pt nanocomposites as highly efficient catalysts for methanol oxidation. <i>Chemical Communications</i> , 2015, 51, 2418-2420.	2.2	37
89	Enzyme-guided plasmonic biosensor based on dual-functional nanohybrid for sensitive detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015, 70, 404-410.	5.3	37
90	Molybdenum-doped mesoporous carbon/graphene composites as efficient electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19969-19973.	5.2	37

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91	Selective electrochemical detection of dopamine using nitrogen-doped graphene/manganese monoxide composites. RSC Advances, 2015, 5, 85065-85072.	1.7	32
92	Nitrogen-doped graphene nanosheets as high efficient catalysts for oxygen reduction reaction. Science Bulletin, 2012, 57, 3065-3070.	1.7	31
93	Metallic and ferromagnetic MoS ₂ nanobelts with vertically aligned edges. Nano Research, 2015, 8, 2946-2953.	5.8	30
94	Heating Treated Carbon Nanotubes As Highly Active Electrocatalysts for Oxygen Reduction Reaction. Electrochimica Acta, 2015, 154, 177-183.	2.6	30
95	ZnO Hybrid of Ni-LDH Chips on Carbon Nanosheets as Cathode of Zinc-Air Battery for Electrocatalytic Conversion of O ₂ into H ₂ O ₂ . ChemSusChem, 2020, 13, 1496-1503.	3.6	30
96	Interfacial Functionalization of TiO ₂ with Smart Polymers: pH-Controlled Switching of Photocurrent Direction. Journal of Physical Chemistry C, 2010, 114, 10478-10483.	1.5	29
97	Direct Exfoliation of Graphite to Graphene by a Facile Chemical Approach. Small, 2014, 10, 2233-2238.	5.2	28
98	Multiple-targeted graphene-based nanocarrier for intracellular imaging of mRNAs. Analytica Chimica Acta, 2017, 983, 1-8.	2.6	27
99	Pyrenebutyrate-functionalized graphene/poly(3-octyl-thiophene) nanocomposites based photoelectrochemical cell. Journal of Electroanalytical Chemistry, 2011, 656, 269-273.	1.9	23
100	Tunable stiffness of graphene oxide/polyacrylamide composite scaffolds regulates cytoskeleton assembly. Chemical Science, 2018, 9, 6516-6522.	3.7	22
101	Energy harvesting from enzymatic biowaste reaction through polyelectrolyte functionalized 2D nanofluidic channels. Chemical Science, 2016, 7, 3645-3648.	3.7	20
102	Direct electrochemistry and electrocatalysis of myoglobin covalently immobilized in mesopores cellular foams. Biosensors and Bioelectronics, 2010, 26, 846-849.	5.3	18
103	Formation of a graphene oxide-DNA duplex-based logic gate and sensor mediated by RecA-ssDNA nucleoprotein filaments. Chemical Communications, 2013, 49, 9971.	2.2	18
104	Ferric phosphide carbon nanocomposites emerging as highly active electrocatalysts for the hydrogen evolution reaction. Dalton Transactions, 2018, 47, 16011-16018.	1.6	12
105	Graphene-nucleic acid biointerface-engineered biosensors with tunable dynamic range. Journal of Materials Chemistry B, 2020, 8, 3623-3630.	2.9	10
106	Porous SnO ₂ nanocubes with controllable pore volume and their Li storage performance. RSC Advances, 2014, 4, 13250-13255.	1.7	9
107	Optical Imaging of Charges with Atomically Thin Molybdenum Disulfide. ACS Nano, 2019, 13, 2298-2306.	7.3	9
108	Low temperature synthesis of NiO/Co ₃ O ₄ composite nanosheets as high performance Li-ion battery anode materials. Science Bulletin, 2012, 57, 4195-4198.	1.7	6

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109	More stable structures lead to improved cycle stability in photocatalysis and Li-ion batteries. RSC Advances, 2013, 3, 7933.	1.7	6
110	Self-Supported Ferric Phosphide Spherical Clusters as Efficient Electrocatalysts for Hydrogen Evolution Reaction. ChemistrySelect, 2017, 2, 9472-9478.	0.7	6
111	Construction of H ₂ O ₂ -responsive asymmetric 2D nanofluidic channels with graphene and peroxidase-mimetic V ₂ O ₅ nanowires. Analytical and Bioanalytical Chemistry, 2019, 411, 4041-4048.	1.9	6