

Jinghong Li

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111
papers

28,513
citations

69
h-index

113
g-index

113
ext. papers

30,393
ext. citations

11.4
avg, IF

7.51
L-index

#	Paper	IF	Citations
111	P25-graphene composite as a high performance photocatalyst. <i>ACS Nano</i> , 2010 , 4, 380-6	16.7	2714
110	Graphene oxide: preparation, functionalization, and electrochemical applications. <i>Chemical Reviews</i> , 2012 , 112, 6027-53	68.1	2515
109	Nitrogen-doped graphene and its application in electrochemical biosensing. <i>ACS Nano</i> , 2010 , 4, 1790-8	16.7	1777
108	Measurement of the quantum capacitance of graphene. <i>Nature Nanotechnology</i> , 2009 , 4, 505-9	28.7	1208
107	Graphene-based materials in electrochemistry. <i>Chemical Society Reviews</i> , 2010 , 39, 3157-80	58.5	1200
106	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. <i>Trends in Biotechnology</i> , 2011 , 29, 205-12	15.1	1150
105	Preparation, Structure, and Electrochemical Properties of Reduced Graphene Sheet Films. <i>Advanced Functional Materials</i> , 2009 , 19, 2782-2789	15.6	1024
104	Application of graphene-modified electrode for selective detection of dopamine. <i>Electrochemistry Communications</i> , 2009 , 11, 889-892	5.1	966
103	Aptamer/graphene oxide nanocomplex for in situ molecular probing in living cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9274-6	16.4	951
102	Graphene fluorescence resonance energy transfer aptasensor for the thrombin detection. <i>Analytical Chemistry</i> , 2010 , 82, 2341-6	7.8	803
101	Nanostructured carbon for energy storage and conversion. <i>Nano Energy</i> , 2012 , 1, 195-220	17.1	797
100	Preparation and electrochemical performance for methanol oxidation of pt/graphene nanocomposites. <i>Electrochemistry Communications</i> , 2009 , 11, 846-849	5.1	625
99	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	16.4	533
98	Tuning Photoelectrochemical Performances of Ag ₃ IO ₂ Nanocomposites via Reduction/Oxidation of Ag. <i>Chemistry of Materials</i> , 2008 , 20, 6543-6549	9.6	511
97	Graphene and graphene-like layered transition metal dichalcogenides in energy conversion and storage. <i>Small</i> , 2014 , 10, 2165-81	11	479
96	Two-dimensional layered MoS ₂ : rational design, properties and electrochemical applications. <i>Energy and Environmental Science</i> , 2016 , 9, 1190-1209	35.4	432
95	Cobalt Phosphide Hollow Polyhedron as Efficient Bifunctional Electrocatalysts for the Evolution Reaction of Hydrogen and Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2158-65	9.5	401

94	A low-temperature method to produce highly reduced graphene oxide. <i>Nature Communications</i> , 2013 , 4, 1539	17.4	371
93	Graphene oxide amplified electrogenerated chemiluminescence of quantum dots and its selective sensing for glutathione from thiol-containing compounds. <i>Analytical Chemistry</i> , 2009 , 81, 9710-5	7.8	366
92	Earth-Rich Transition Metal Phosphide for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2016 , 6, 1600087	21.8	354
91	Preparation of SnO ₂ -Nanocrystal/Graphene-Nanosheets Composites and Their Lithium Storage Ability. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21770-21774	3.8	354
90	Graphene as a novel matrix for the analysis of small molecules by MALDI-TOF MS. <i>Analytical Chemistry</i> , 2010 , 82, 6208-14	7.8	337
89	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. <i>Energy and Environmental Science</i> , 2013 , 6, 1362	35.4	324
88	Positive potential operation of a cathodic electrogenerated chemiluminescence immunosensor based on luminol and graphene for cancer biomarker detection. <i>Analytical Chemistry</i> , 2011 , 83, 3817-23	7.8	318
87	Ionic liquids in surface electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1685-97	3.6	287
86	Graphene-based transition metal oxide nanocomposites for the oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 1250-69	7.7	249
85	Self-Assembled GrapheneEnzyme Hierarchical Nanostructures for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2010 , 20, 3366-3372	15.6	242
84	Facilitated Lithium Storage in MoS ₂ Overlayers Supported on Coaxial Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1675-1682	3.8	231
83	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, 22029-34	3.4	226
82	Electrochemical gate-controlled charge transport in graphene in ionic liquid and aqueous solution. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9908-9	16.4	210
81	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		196
80	Au/TiO ₂ /Au as a Plasmonic Coupling Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6490-6494	3.8	189
79	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, 1944-55	18.8	187
78	In situ live cell sensing of multiple nucleotides exploiting DNA/RNA aptamers and graphene oxide nanosheets. <i>Analytical Chemistry</i> , 2013 , 85, 6775-82	7.8	178
77	Fabrication of polymeric ionic liquid/graphene nanocomposite for glucose oxidase immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2632-7	11.8	178

76	In Situ Coupling of CoP Polyhedrons and Carbon Nanotubes as Highly Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>Small</i> , 2017 , 13, 1602873	11	175
75	One-pot synthesis, characterization, and enhanced photocatalytic activity of a BiOBr-graphene composite. <i>Chemistry - A European Journal</i> , 2012 , 18, 14359-66	4.8	173
74	Hierarchical Structures Based on Two-Dimensional Nanomaterials for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601906	21.8	172
73	Preparation and Enhanced Photoelectrochemical Performance of Coupled Bicomponent ZnO@TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 117-122	3.8	171
72	Black phosphorus quantum dots: synthesis, properties, functionalized modification and applications. <i>Chemical Society Reviews</i> , 2018 , 47, 6795-6823	58.5	168
71	Highly efficient and sustainable non-precious-metal Fe@C electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2527-2539	13	167
70	Metal oxide hollow nanostructures: Fabrication and Li storage performance. <i>Journal of Power Sources</i> , 2013 , 238, 376-387	8.9	163
69	DNA-directed self-assembly of graphene oxide with applications to ultrasensitive oligonucleotide assay. <i>ACS Nano</i> , 2011 , 5, 3817-22	16.7	160
68	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, 8396-402	7.8	158
67	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		156
66	The graphene/nucleic acid nanobiointerface. <i>Chemical Society Reviews</i> , 2015 , 44, 6954-80	58.5	153
65	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, 4278-86	7.8	144
64	Uniform and rich-wrinkled electrophoretic deposited graphene film: a robust electrochemical platform for TNT sensing. <i>Chemical Communications</i> , 2010 , 46, 5882-4	5.8	143
63	Layer-by-layer assembly of chemical reduced graphene and carbon nanotubes for sensitive electrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 63-68	11.8	138
62	Interfacial Bioelectrochemistry: Fabrication, Properties and Applications of Functional Nanostructured Biointerfaces. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2351-2367	3.8	136
61	A hybrid electrochemical-colorimetric sensing platform for detection of explosives. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1390-1	16.4	135
60	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, 8133-9	4.8	133
59	V-shaped tin oxide nanostructures featuring a broad photocurrent signal: an effective visible-light-driven photocatalyst. <i>Small</i> , 2006 , 2, 1436-9	11	131

58	Direct electrochemistry and electrocatalysis based on film of horseradish peroxidase intercalated into layered titanate nano-sheets. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 102-6	11.8	120
57	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	13	120
56	Duplex DNA/Graphene Oxide Biointerface: From Fundamental Understanding to Specific Enzymatic Effects. <i>Advanced Functional Materials</i> , 2012 , 22, 3083-3088	15.6	115
55	Facile synthesis of wide-bandgap fluorinated graphene semiconductors. <i>Chemistry - A European Journal</i> , 2011 , 17, 8896-903	4.8	112
54	Quantum dots sensitized graphene: In situ growth and application in photoelectrochemical cells. <i>Electrochemistry Communications</i> , 2010 , 12, 483-487	5.1	111
53	CoS 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	7.7	110
52	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	15.6	86
51	Electrochemical DNA sensor by the assembly of graphene and DNA-conjugated gold nanoparticles with silver enhancement strategy. <i>Analyst, The</i> , 2011 , 136, 4732-7	5	86
50	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	6.7	85
49	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	3.8	82
48	Polycrystalline CoP/CoP ₂ Structures for Efficient Full Water Splitting. <i>ChemElectroChem</i> , 2018 , 5, 701-707	7.3	81
47	Molybdenum Carbide-Decorated Metallic Cobalt@Nitrogen-Doped Carbon Polyhedrons for Enhanced Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1704227	11	77
46	Unique Hierarchical MoC/C Nanosheet Hybrids as Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41314-41322	9.5	76
45	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8707		73
44	Graphene-based hollow spheres as efficient electrocatalysts for oxygen reduction. <i>Nanoscale</i> , 2013 , 5, 10839-43	7.7	69
43	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, 1107-11	10.3	69
42	Titanium nitride nanocrystals on nitrogen-doped graphene as an efficient electrocatalyst for oxygen reduction reaction. <i>Chemistry - A European Journal</i> , 2013 , 19, 14781-6	4.8	66
41	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, 1294-8	3.5	65

40	Flawed MoO ₂ belts transformed from MoO ₃ on a graphene template for the hydrogen evolution reaction. <i>Nanoscale</i> , 2015 , 7, 7040-4	7.7	64
39	SnO ₂ hollow nanospheres enclosed by single crystalline nanoparticles for highly efficient dye-sensitized solar cells. <i>CrystEngComm</i> , 2012 , 14, 5177	3.3	62
38	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	5.1	62
37	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, 4620-6	4.8	61
36	Band π -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	7.1	59
35	High-Efficient, Stable Electrocatalytic Hydrogen Evolution in Acid Media by Amorphous Fe P Coating Fe N Supported on Reduced Graphene Oxide. <i>Small</i> , 2018 , 14, e1801717	11	57
34	Nanomaterials in carbohydrate biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 58, 54-70	14.6	54
33	Applications of graphene and its derivatives in intracellular biosensing and bioimaging. <i>Analyst, The</i> , 2016 , 141, 4541-53	5	50
32	Photoelectrochemical study of organic/inorganic hybrid thin films via electrostatic layer-by-layer assembly. <i>Electrochemistry Communications</i> , 2007 , 9, 2151-2156	5.1	49
31	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, 11196-203	7.7	47
30	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		45
29	Sucrose-assisted loading of LiFePO ₄ nanoparticles on graphene for high-performance lithium-ion battery cathodes. <i>Chemistry - A European Journal</i> , 2013 , 19, 5631-6	4.8	43
28	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	3.4	42
27	Rapidly catalysis of oxygen evolution through sequential engineering of vertically layered FeNi structure. <i>Nano Energy</i> , 2018 , 43, 359-367	17.1	39
26	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	3.1	38
25	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	13	37
24	Highly reduced graphene oxide supported Pt nanocomposites as highly efficient catalysts for methanol oxidation. <i>Chemical Communications</i> , 2015 , 51, 2418-20	5.8	36
23	Enzyme-guided plasmonic biosensor based on dual-functional nanohybrid for sensitive detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 404-10	11.8	30

22	Nitrogen-doped graphene nanosheets as high efficient catalysts for oxygen reduction reaction. <i>Science Bulletin</i> , 2012 , 57, 3065-3070		29
21	Interfacial Functionalization of TiO ₂ with Smart Polymers: pH-Controlled Switching of Photocurrent Direction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10478-10483	3.8	28
20	Selective electrochemical detection of dopamine using nitrogen-doped graphene/manganese monoxide composites. <i>RSC Advances</i> , 2015 , 5, 85065-85072	3.7	27
19	Heating Treated Carbon Nanotubes As Highly Active Electrocatalysts for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2015 , 154, 177-183	6.7	26
18	Recent Advances in Transition Metal Phosphide Electrocatalysts for Water Splitting under Neutral pH Conditions. <i>ChemElectroChem</i> , 2020 , 7, 3578-3589	4.3	26
17	Direct exfoliation of graphite to graphene by a facile chemical approach. <i>Small</i> , 2014 , 10, 2233-8	11	26
16	Metallic and ferromagnetic MoS ₂ nanobelts with vertically aligned edges. <i>Nano Research</i> , 2015 , 8, 2946-2953		26
15	Multiple-targeted graphene-based nanocarrier for intracellular imaging of mRNAs. <i>Analytica Chimica Acta</i> , 2017 , 983, 1-8	6.6	23
14	Pyrenebutyrate-functionalized graphene/poly(3-octyl-thiophene) nanocomposites based photoelectrochemical cell. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 656, 269-273	4.1	21
13	Energy harvesting from enzymatic biowaste reaction through polyelectrolyte functionalized 2D nanofluidic channels. <i>Chemical Science</i> , 2016 , 7, 3645-3648	9.4	19
12	Formation of a graphene oxide-DNA duplex-based logic gate and sensor mediated by RecA-ssDNA nucleoprotein filaments. <i>Chemical Communications</i> , 2013 , 49, 9971-3	5.8	17
11	Direct electrochemistry and electrocatalysis of myoglobin covalently immobilized in mesopores cellular foams. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 846-9	11.8	15
10	2 D Hybrid of Ni-LDH Chips on Carbon Nanosheets as Cathode of Zinc-Air Battery for Electrocatalytic Conversion of O into H O. <i>ChemSusChem</i> , 2020 , 13, 1496-1503	8.3	15
9	Tunable stiffness of graphene oxide/polyacrylamide composite scaffolds regulates cytoskeleton assembly. <i>Chemical Science</i> , 2018 , 9, 6516-6522	9.4	15
8	Ferric phosphide carbon nanocomposites emerging as highly active electrocatalysts for the hydrogen evolution reaction. <i>Dalton Transactions</i> , 2018 , 47, 16011-16018	4.3	10
7	Porous SnO ₂ nanocubes with controllable pore volume and their Li storage performance. <i>RSC Advances</i> , 2014 , 4, 13250-13255	3.7	7
6	Graphene-nucleic acid biointerface-engineered biosensors with tunable dynamic range. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3623-3630	7.3	7
5	Self-Supported Ferric Phosphide Spherical Clusters as Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2017 , 2, 9472-9478	1.8	6

- 4 More stable structures lead to improved cycle stability in photocatalysis and Li-ion batteries. *RSC Advances*, **2013**, 3, 7933 3.7 6
- 3 Construction of HO-responsive asymmetric 2D nanofluidic channels with graphene and peroxidase-mimetic VO nanowires. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4041-4048 4.4 6
- 2 Optical Imaging of Charges with Atomically Thin Molybdenum Disulfide. *ACS Nano*, **2019**, 13, 2298-2306 16.7 6
- 1 Low temperature synthesis of NiO/Co₃O₄ composite nanosheets as high performance Li-ion battery anode materials. *Science Bulletin*, **2012**, 57, 4195-4198 5