

Linfei Lai

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62

papers

6,928

citations

37

h-index

65

g-index

65

ext. papers

7,715

ext. citations

11.5

avg, IF

5.71

L-index

#	Paper	IF	Citations
62	Exploration of the active center structure of nitrogen-doped graphene-based catalysts for oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2012 , 5, 7936	35.4	1813
61	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8038		795
60	Interdiffusion Reaction-Assisted Hybridization of Two-Dimensional Metal-Organic Frameworks and TiCT Nanosheets for Electrocatalytic Oxygen Evolution. <i>ACS Nano</i> , 2017 , 11, 5800-5807	16.7	388
59	One-step synthesis of NH ₂ -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <i>Carbon</i> , 2011 , 49, 3250-3257	10.4	322
58	Nitrogen doping of graphene and its effect on quantum capacitance, and a new insight on the enhanced capacitance of N-doped carbon. <i>Energy and Environmental Science</i> , 2012 , 5, 9618	35.4	307
57	Preparation of supercapacitor electrodes through selection of graphene surface functionalities. <i>ACS Nano</i> , 2012 , 6, 5941-51	16.7	279
56	Ni ₃ S ₂ @MoS ₂ core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. <i>Nano Energy</i> , 2014 , 7, 151-160	17.1	214
55	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011 , 49, 1362-1366	10.4	187
54	Recent advances in air electrodes for Zn air batteries: electrocatalysis and structural design. <i>Materials Horizons</i> , 2017 , 4, 945-976	14.4	174
53	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , 2013 , 2, 377-386	17.1	174
52	Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15423-15446	13	133
51	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. <i>Advanced Science</i> , 2018 , 5, 1700375	13.6	115
50	2020 roadmap on two-dimensional materials for energy storage and conversion. <i>Chinese Chemical Letters</i> , 2019 , 30, 2053-2064	8.1	108
49	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. <i>ACS Nano</i> , 2015 , 9, 8609-16	16.7	103
48	Engineering the electronic structure of graphene. <i>Advanced Materials</i> , 2012 , 24, 4055-69	24	99
47	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO ₂ nanocomposites. <i>Nanoscale Research Letters</i> , 2011 , 6, 531	5	89
46	Three dimensional Fe ₂ O ₃ /polypyrrole (Ppy) nanoarray as anode for micro lithium ion batteries. <i>Nano Energy</i> , 2013 , 2, 726-732	17.1	88

45	High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. <i>Journal of Power Sources</i> , 2015 , 275, 298-304	8.9	76
44	Aging mechanism of MoS ₂ nanosheets confined in N-doped mesoporous carbon spheres for sodium-ion batteries. <i>Nano Energy</i> , 2019 , 62, 299-309	17.1	73
43	Solvothermal syntheses of hollow carbon microspheres modified with NH ₂ and OH groups in one-step process. <i>Carbon</i> , 2010 , 48, 3145-3156	10.4	72
42	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2488-2495	13	71
41	Co ₃ O ₄ /nitrogen modified graphene electrode as Li-ion battery anode with high reversible capacity and improved initial cycle performance. <i>Nano Energy</i> , 2014 , 3, 134-143	17.1	67
40	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. <i>Nano Energy</i> , 2012 , 1, 723-731	17.1	67
39	V ₂ O ₅ embedded in vertically aligned carbon nanotube arrays as free-standing electrodes for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23727-23736	13	58
38	Fabrication of ultra-sensitive and selective dopamine electrochemical sensor based on molecularly imprinted polymer modified graphene@carbon nanotube foam. <i>Electrochemistry Communications</i> , 2016 , 64, 42-45	5.1	57
37	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , 2015 , 5, 55856-55869	3.7	53
36	CoP@N,P-Codoped Carbon Nanofiber as a Free-Standing Air Electrode for Zn-Air Batteries: Synergy Effects of CoN Satellite Shells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10364-10372	9.5	51
35	Pt-WxC nano-composites as an efficient electrochemical catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2013 , 2, 28-39	17.1	51
34	Sub-micron silicon/pyrolyzed carbon@natural graphite self-assembly composite anode material for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 313, 187-196	14.7	49
33	3D urchin-like architectures assembled by MnS nanorods encapsulated in N-doped carbon tubes for superior lithium storage capability. <i>Chemical Engineering Journal</i> , 2019 , 355, 752-759	14.7	49
32	MoS ₂ architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17534-17543	13	47
31	A free-standing Li ₄ Ti ₅ O ₁₂ /graphene foam composite as anode material for Li-ion hybrid supercapacitor. <i>Electrochimica Acta</i> , 2017 , 258, 1311-1319	6.7	45
30	Stacking faults triggered strain engineering of ZIF-67 derived Ni-Co bimetal phosphide for enhanced overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118951	21.8	41
29	One-step coaxial electrodeposition of Co _{0.85} Se on CoNi ₂ S ₄ nanotube arrays for flexible solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15630-15639	13	39
28	Recent progress in hierarchically structured O ₂ -cathodes for Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2018 , 352, 972-995	14.7	39

27	Hierarchical MnO ₂ /rGO hybrid nanosheets as an efficient electrocatalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5260-5268	6.7	38
26	A free-standing electrochemical sensor based on graphene foam-carbon nanotube composite coupled with gold nanoparticles and its sensing application for electrochemical determination of dopamine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 801, 129-134	4.1	37
25	High Electrochemical Performance of LiFePO ₄ Cathode Material via In-Situ Microwave Exfoliated Graphene Oxide. <i>Electrochimica Acta</i> , 2015 , 151, 240-248	6.7	35
24	Binary metal sulfides and polypyrrole on vertically aligned carbon nanotube arrays/carbon fiber paper as high-performance electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22043-22052	13	33
23	One novel and universal method to prepare transition metal nitrides doped graphene anodes for Li-ion battery. <i>Electrochimica Acta</i> , 2014 , 134, 28-34	6.7	33
22	Highly active non-precious metal catalyst based on poly(vinylpyrrolidone) wrapped carbon nanotubes complexed with iron-cobalt metal ions for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2012 , 214, 15-20	8.9	33
21	Repeated microwave-assisted exfoliation of expandable graphite for the preparation of large scale and high quality multi-layer graphene. <i>RSC Advances</i> , 2013 , 3, 11601	3.7	30
20	Tailored synthesis of Zn-N co-doped porous MoC nanosheets towards efficient hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 1700-1709	7.7	29
19	Carbon Nanotube-Based Materials for Fuel Cell Applications. <i>Australian Journal of Chemistry</i> , 2012 , 65, 1213	1.2	28
18	One-Step Synthesis of Monodispersed Mesoporous Carbon Nanospheres for High-Performance Flexible Quasi-Solid-State Micro-Supercapacitors. <i>Small</i> , 2019 , 15, e1903836	11	25
17	Preparation of Pt nanoparticle-loaded three-dimensional Fe ₃ O ₄ /carbon with high electro-oxidation activity. <i>Carbon</i> , 2011 , 49, 1581-1587	10.4	25
16	Two-dimensional porous SiO ₂ nanomesh supported high dispersed Ni nanoparticles for CO methanation. <i>Chemical Engineering Journal</i> , 2017 , 326, 774-780	14.7	23
15	Syntheses, Properties and Electrochemical Activity of Carbon Microtubes Modified with Amino Groups. <i>Advanced Functional Materials</i> , 2008 , 18, 1809-1823	15.6	23
14	Sb ₂ S ₃ nanocrystals embedded in multichannel N-doped carbon nanofiber for ultralong cycle life sodium-ion batteries. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122139	4.4	22
13	Selection of graphene dopants for Na ₃ V ₂ (PO ₄) ₃ graphene composite as high rate, ultra long-life sodium-ion battery cathodes. <i>Electrochimica Acta</i> , 2019 , 306, 558-567	6.7	19
12	Catalysts confined inside CNTs derived from 2D metal-organic frameworks for electrolysis. <i>Nanoscale</i> , 2020 , 12, 8969-8974	7.7	16
11	A cathode for Li-ion batteries made of vanadium oxide on vertically aligned carbon nanotube arrays/graphene foam. <i>Chemical Engineering Journal</i> , 2019 , 359, 1668-1676	14.7	16
10	N, P Co-doped Hierarchical Porous Graphene as a Metal-Free Bifunctional Air Cathode for Zn-Air Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1811-1816	4.3	15

9	Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7148-7154	13	13
8	Durable Freestanding Hierarchical Porous Electrode for Rechargeable Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1505-1516	6.1	10
7	A TiS/Celgard separator as an efficient polysulfide shuttling inhibitor for high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 24368-24375	7.7	9
6	Micro-supercapacitors based on oriented coordination polymer thin films for AC line-filtering.. <i>RSC Advances</i> , 2018 , 8, 30624-30628	3.7	9
5	Synthesis of Mesoporous TiO-B Nanobelts with Highly Crystallized Walls toward Efficient H Evolution. <i>Nanomaterials</i> , 2019 , 9,	5.4	6
4	Tailoring the Electrode Interface with Enhanced Electron Transfer for High-Rate Lithium-Ion Battery Anodes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6643-6648	3.9	3
3	Atomic-level tungsten doping triggered low overpotential for electrocatalytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 581-589	9.3	1
2	Structural engineering of V2O5 nanobelts for flexible supercapacitors. <i>Materials Letters</i> , 2022 , 320, 132391	3.9	1
1	Amorphous Carbon Interweaved Mesoporous All-carbon Electrode for Wide-Temperature Range Supercapacitors. <i>Electrochimica Acta</i> , 2022 , 140622	6.7	0