

Linfei Lai

List of Publications by Year in descending order

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62
papers

8,449
citations

81743

39
h-index

114278

63
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65
all docs

65
docs citations

65
times ranked

13464
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	15.6	2,089
2	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. <i>Journal of Materials Chemistry</i> , 2011, 21, 8038.	6.7	896
3	Interdiffusion Reaction-Assisted Hybridization of Two-Dimensional Metal-Organic Frameworks and $\text{Ti}_3\text{C}_2\text{T}_x$ Nanosheets for Electrocatalytic Oxygen Evolution. <i>ACS Nano</i> , 2017, 11, 5800-5807.	7.3	557
4	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.	15.6	376
5	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.	5.4	372
6	Preparation of Supercapacitor Electrodes through Selection of Graphene Surface Functionalities. <i>ACS Nano</i> , 2012, 6, 5941-5951.	7.3	310
7	Recent advances in air electrodes for Zn-air batteries: electrocatalysis and structural design. <i>Materials Horizons</i> , 2017, 4, 945-976.	6.4	263
8	$\text{Ni}_3\text{S}_2@ \text{MoS}_2$ core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. <i>Nano Energy</i> , 2014, 7, 151-160.	8.2	245
9	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011, 49, 1362-1366.	5.4	218
10	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , 2013, 2, 377-386.	8.2	200
11	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.	5.2	184
12	Engineering the Electronic Structure of Graphene. <i>Advanced Materials</i> , 2012, 24, 4055-4069.	11.1	141
13	Electrochemically Synthesis of Nickel Cobalt Sulfide for High-Performance Flexible Asymmetric Supercapacitors. <i>Advanced Science</i> , 2018, 5, 1700375.	5.6	141
14	2020 roadmap on two-dimensional materials for energy storage and conversion. <i>Chinese Chemical Letters</i> , 2019, 30, 2053-2064.	4.8	140
15	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.	8.2	119
16	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. <i>ACS Nano</i> , 2015, 9, 8609-8616.	7.3	116
17	Three dimensional $\text{Fe}_2\text{O}_3/\text{polypyrrole}$ (Ppy) nanoarray as anode for micro lithium ion batteries. <i>Nano Energy</i> , 2013, 2, 726-732.	8.2	102
18	Influences of graphene oxide support on the electrochemical performances of graphene oxide- MnO_2 nanocomposites. <i>Nanoscale Research Letters</i> , 2011, 6, 531.	3.1	95

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19	High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. <i>Journal of Power Sources</i> , 2015, 275, 298-304.	4.0	87
20	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.	5.2	83
21	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. <i>Nano Energy</i> , 2012, 1, 723-731.	8.2	78
22	Solvothermal syntheses of hollow carbon microspheres modified with -NH ₂ and -OH groups in one-step process. <i>Carbon</i> , 2010, 48, 3145-3156.	5.4	77
23	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.	10.8	76
24	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.	5.2	73
25	Co ₂ P@N,P-Codoped Carbon Nanofiber as a Free-Standing Air Electrode for Zn-Air Batteries: Synergy Effects of Co Nanoscale Satellite Shells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10364-10372.	4.0	73
26	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.	8.2	72
27	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.	6.6	69
28	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 55856-55869.	1.7	68
29	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.	6.6	68
30	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.	2.3	65
31	Recent progress in hierarchically structured O ₂ -cathodes for Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2018, 352, 972-995.	6.6	57
32	Pt-W C nano-composites as an efficient electrochemical catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2013, 2, 28-39.	8.2	56
33	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.	2.6	55
34	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.	5.2	55
35	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.	5.2	51
36	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.	1.9	47

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37	One-Step Synthesis of Monodispersed Mesoporous Carbon Nanospheres for High-Performance Flexible Quasi-Solid-State Micro-Supercapacitors. <i>Small</i> , 2019, 15, e1903836.	5.2	45
38	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.	3.8	44
39	High Electrochemical Performance of LiFePO ₄ Cathode Material via In-Situ Microwave Exfoliated Graphene Oxide. <i>Electrochimica Acta</i> , 2015, 151, 240-248.	2.6	42
40	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.	2.6	41
41	Tailored synthesis of Zn-N co-doped porous MoC nanosheets towards efficient hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 1700-1709.	2.8	39
42	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.	4.0	37
43	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.	5.2	36
44	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.	1.7	35
45	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.	2.0	33
46	Carbon Nanotube-Based Materials for Fuel Cell Applications. <i>Australian Journal of Chemistry</i> , 2012, 65, 1213.	0.5	31
47	Syntheses, Properties and Electrochemical Activity of Carbon Microtubes Modified with Amino Groups. <i>Advanced Functional Materials</i> , 2008, 18, 1809-1823.	7.8	29
48	Two-dimensional porous SiO ₂ nanomesh supported high dispersed Ni nanoparticles for CO methanation. <i>Chemical Engineering Journal</i> , 2017, 326, 774-780.	6.6	28
49	Preparation of Pt nanoparticle-loaded three-dimensional Fe ₃ O ₄ /carbon with high electro-oxidation activity. <i>Carbon</i> , 2011, 49, 1581-1587.	5.4	26
50	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.	6.6	25
51	Catalysts confined inside CNTs derived from 2D metal-organic frameworks for electrolysis. <i>Nanoscale</i> , 2020, 12, 8969-8974.	2.8	25
52	A TiS ₂ /Celgard separator as an efficient polysulfide shuttling inhibitor for high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 24368-24375.	2.8	24
53	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.	2.6	21
54	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.	1.7	19

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55	Durable Freestanding Hierarchical Porous Electrode for Rechargeable Zinc-Air Batteries. ACS Applied Energy Materials, 2019, 2, 1505-1516.	2.5	18
56	Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. Journal of Materials Chemistry A, 2016, 4, 7148-7154.	5.2	17
57	Micro-supercapacitors based on oriented coordination polymer thin films for AC line-filtering. RSC Advances, 2018, 8, 30624-30628.	1.7	13
58	Synthesis of Mesoporous TiO ₂ -B Nanobelts with Highly Crystallized Walls toward Efficient H ₂ Evolution. Nanomaterials, 2019, 9, 919.	1.9	10
59	Atomic-level tungsten doping triggered low overpotential for electrocatalytic water splitting. Journal of Colloid and Interface Science, 2021, 587, 581-589.	5.0	10
60	Structural engineering of V ₂ O ₅ nanobelts for flexible supercapacitors. Materials Letters, 2022, 320, 132391.	1.3	10
61	Amorphous carbon interweaved mesoporous all-carbon electrode for wide-temperature range supercapacitors. Electrochimica Acta, 2022, 424, 140622.	2.6	7
62	Tailoring the Electrode Interface with Enhanced Electron Transfer for High-Rate Lithium-Ion Battery Anodes. Industrial & Engineering Chemistry Research, 2016, 55, 6643-6648.	1.8	3