

Xianglong Li

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78
papers

5,650
citations

40
h-index

75
g-index

81
ext. papers

6,165
ext. citations

13.1
avg, IF

5.95
L-index

#	Paper	IF	Citations
78	Carbonaceous electrode materials for supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 3899-904	24	513
77	Adaptable silicon-carbon nanocables sandwiched between reduced graphene oxide sheets as lithium ion battery anodes. <i>ACS Nano</i> , 2013 , 7, 1437-45	16.7	359
76	Renewing functionalized graphene as electrodes for high-performance supercapacitors. <i>Advanced Materials</i> , 2012 , 24, 6348-55	24	355
75	Graphene-confined Sn nanosheets with enhanced lithium storage capability. <i>Advanced Materials</i> , 2012 , 24, 3538-43	24	254
74	Graphene hybridization for energy storage applications. <i>Chemical Society Reviews</i> , 2018 , 47, 3189-3216	58.5	232
73	Contact-engineered and void-involved silicon/carbon nanohybrids as lithium-ion-battery anodes. <i>Advanced Materials</i> , 2013 , 25, 3560-5	24	212
72	The dimensionality of Sn anodes in Li-ion batteries. <i>Materials Today</i> , 2012 , 15, 544-552	21.8	194
71	Reduced graphene oxide-mediated growth of uniform tin-core/carbon-sheath coaxial nanocables with enhanced lithium ion storage properties. <i>Advanced Materials</i> , 2012 , 24, 1405-9	24	175
70	High volumetric capacity silicon-based lithium battery anodes by nanoscale system engineering. <i>Nano Letters</i> , 2013 , 13, 5578-84	11.5	159
69	Terephthalonitrile-derived nitrogen-rich networks for high performance supercapacitors. <i>Energy and Environmental Science</i> , 2012 , 5, 9747	35.4	154
68	High-Performance Silicon Battery Anodes Enabled by Engineering Graphene Assemblies. <i>Nano Letters</i> , 2015 , 15, 6222-8	11.5	147
67	Encapsulating V2O5 into carbon nanotubes enables the synthesis of flexible high-performance lithium ion batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 906-911	35.4	145
66	Pyrolyzed bacterial cellulose: a versatile support for lithium ion battery anode materials. <i>Small</i> , 2013 , 9, 2399-404	11	144
65	Tailored single-walled carbon nanotube–CdS nanoparticle hybrids for tunable optoelectronic devices. <i>ACS Nano</i> , 2010 , 4, 506-12	16.7	118
64	Efficient Synthesis of Carbon Nanotube Nanoparticle Hybrids. <i>Advanced Functional Materials</i> , 2006 , 16, 2431-2437	15.6	106
63	Silicene Flowers: A Dual Stabilized Silicon Building Block for High-Performance Lithium Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 7476-7484	16.7	102
62	Approaching the downsizing limit of silicon for surface-controlled lithium storage. <i>Advanced Materials</i> , 2015 , 27, 1526-32	24	95

61	Ultrafast-Charging Silicon-Based Coral-Like Network Anodes for Lithium-Ion Batteries with High Energy and Power Densities. <i>ACS Nano</i> , 2019 , 13, 2307-2315	16.7	93
60	A synergistic strategy for stable lithium metal anodes using 3D fluorine-doped graphene shuttle-implanted porous carbon networks. <i>Nano Energy</i> , 2018 , 49, 179-185	17.1	92
59	Stable high-capacity and high-rate silicon-based lithium battery anodes upon two-dimensional covalent encapsulation. <i>Nature Communications</i> , 2020 , 11, 3826	17.4	92
58	Concise Route to Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12899-12901	17.1	91
57	Dimensionally Designed Carbon-Silicon Hybrids for Lithium Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1806061	15.6	91
56	A new method to synthesize complicated multi-branched carbon nanotubes with controlled architecture and composition. <i>Nano Letters</i> , 2006 , 6, 186-92	11.5	88
55	Carbon Nanotube-Enhanced Growth of Silicon Nanowires as an Anode for High-Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 87-93	21.8	85
54	Macroscopic, flexible, high-performance graphene ribbons. <i>ACS Nano</i> , 2013 , 7, 10225-32	16.7	85
53	Hydrogen reduced graphene oxide/metal grid hybrid film: towards high performance transparent conductive electrode for flexible electrochromic devices. <i>Carbon</i> , 2015 , 81, 232-238	10.4	78
52	All-biomaterial supercapacitor derived from bacterial cellulose. <i>Nanoscale</i> , 2016 , 8, 9146-50	7.7	77
51	One-dimensional/two-dimensional hybridization for self-supported binder-free silicon-based lithium ion battery anodes. <i>Nanoscale</i> , 2013 , 5, 1470-4	7.7	76
50	Nanomaterial-incorporated blown bubble films for large-area, aligned nanostructures. <i>Journal of Materials Chemistry</i> , 2008 , 18, 728		75
49	Intrinsic line shape of the Raman 2D-mode in freestanding graphene monolayers. <i>Nano Letters</i> , 2013 , 13, 3517-23	11.5	67
48	Noncovalent assembly of carbon nanotube-inorganic hybrids. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7527		67
47	In situ synthesis of CdS nanoparticles on multi-walled carbon nanotubes. <i>Carbon</i> , 2004 , 42, 455-458	10.4	63
46	C60 modified single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2003 , 377, 32-36	2.5	55
45	A Facile Reduction Method for Roll-to-Roll Production of High Performance Graphene-Based Transparent Conductive Films. <i>Advanced Materials</i> , 2017 , 29, 1605028	24	54
44	Rational Design of Carbon-Rich Materials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2019 , 31, e1804973	24	52

43	Managing voids of Si anodes in lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 8864-73	7.7	49
42	Hydrogen-induced effects on the CVD growth of high-quality graphene structures. <i>Nanoscale</i> , 2013 , 5, 8363-6	7.7	49
41	Intertwined network of Si/C nanocables and carbon nanotubes as lithium-ion battery anodes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6467-72	9.5	46
40	Direct enrichment of metallic single-walled carbon nanotubes induced by the different molecular composition of monohydroxy alcohol homologues. <i>Small</i> , 2007 , 3, 1486-90	11	46
39	Solar cells and light sensors based on nanoparticle-grafted carbon nanotube films. <i>ACS Nano</i> , 2010 , 4, 2142-8	16.7	44
38	Mass production of multi-channeled porous carbon nanofibers and their application as binder-free electrodes for high-performance supercapacitors. <i>Small</i> , 2014 , 10, 4671-6	11	38
37	A magnetism-assisted chemical vapor deposition method to produce branched or iron-encapsulated carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7364-8	16.4	36
36	The effect of metal silicide formation on silicon nanowire-based lithium-ion battery anode capacity. <i>Journal of Power Sources</i> , 2012 , 205, 467-473	8.9	32
35	A collaborative strategy for stable lithium metal anodes by using three-dimensional nitrogen-doped graphene foams. <i>Nanoscale</i> , 2018 , 10, 4675-4679	7.7	30
34	Graphenal polymers for energy storage. <i>Small</i> , 2014 , 10, 2122-35	11	29
33	A New Technique for Controllably Producing Branched or Encapsulating Nanostructures in a Vapor-Liquid-Solid Process. <i>Advanced Materials</i> , 2007 , 19, 386-390	24	28
32	Alkylation and arylation of single-walled carbon nanotubes by mechanochemical method. <i>Chemical Physics Letters</i> , 2007 , 444, 258-262	2.5	28
31	Reduced graphene oxide nanoribbon networks: a novel approach towards scalable fabrication of transparent conductive films. <i>Small</i> , 2013 , 9, 820-4	11	26
30	A fast room-temperature strategy for direct reduction of graphene oxide films towards flexible transparent conductive films. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10969-10973	13	25
29	Graphene-templated formation of 3D tin-based foams for lithium ion storage applications with a long lifespan. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 362-367	13	24
28	Direct route to high-density and uniform assembly of Au nanoparticles on carbon nanotubes. <i>Carbon</i> , 2006 , 44, 3139-3142	10.4	23
27	Synergistically engineered self-standing silicon/carbon composite arrays as high performance lithium battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 494-498	13	22
26	Solid-Solid interface growth of conductive metal-organic framework nanowire arrays and their supercapacitor application. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 243-251	7.8	22

25	Controlled growth of single-walled carbon nanotubes at atmospheric pressure by catalytic decomposition of ethanol and an efficient purification method. <i>Journal of Materials Chemistry</i> , 2007 , 17, 357-363		20
24	Freestanding carbon-coated CNT/Sn(O ₂) coaxial sponges with enhanced lithium-ion storage capability. <i>Nanoscale</i> , 2015 , 7, 20380-5	7.7	18
23	Synthesis and Device Integration of Carbon Nanotube/Silica Core/Shell Nanowires. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7661-7665	3.8	18
22	Sp ² -carbon dominant carbonaceous materials for energy conversion and storage. <i>Materials Science and Engineering Reports</i> , 2019 , 137, 1-37	30.9	18
21	Scallop-Inspired Shell Engineering of Microparticles for Stable and High Volumetric Capacity Battery Anodes. <i>Small</i> , 2018 , 14, e1800752	11	14
20	The formation of recumbent bamboo-like carbon nanotube patterns on a patterned gold substrate by chemical vapor deposition. <i>Carbon</i> , 2008 , 46, 255-260	10.4	14
19	Efficient synthesis of tailored magnetic carbon nanotubes via a noncovalent chemical route. <i>Nanoscale</i> , 2011 , 3, 668-73	7.7	13
18	Continuous carbon nanofiber bundles with tunable pore structures and functions for weavable fibrous supercapacitors. <i>Energy Storage Materials</i> , 2016 , 5, 43-49	19.4	13
17	Embedding Reduced Graphene Oxide in Bacterial Cellulose-Derived Carbon Nanofibril Networks for Supercapacitors. <i>ChemElectroChem</i> , 2017 , 4, 2448-2452	4.3	11
16	A pinecone-inspired nanostructure design for long-cycle and high performance Si anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5395-5401	13	10
15	Exploring the interaction between graphene derivatives and metal ions as a key step towards graphene-inorganic nanohybrids. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 410-3	4.5	10
14	Poly (zinc phthalocyanine) Nanoribbons and Their Application in the High-Sensitive Detection of Lead Ions. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1051-1059	2.6	9
13	Reconstruction of Pyrolyzed Bacterial Cellulose (PBC)-Based Three-Dimensional Conductive Network for Silicon Lithium Battery Anodes. <i>ChemElectroChem</i> , 2015 , 2, 1238-1242	4.3	7
12	Oriental self-assembled field-effect transistors based on a single-walled carbon nanotube. <i>Applied Physics Letters</i> , 2005 , 87, 243102	3.4	7
11	Controlled functionalization of graphene with carboxyl moieties toward multiple applications. <i>RSC Advances</i> , 2016 , 6, 58561-58565	3.7	6
10	Reversible Functionalization: A Scalable Way to Deliver the Structure and Interface of Graphene for Different Macro Applications. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500842	4.6	4
9	A hierarchical layering design for stable, self-restrained and high volumetric binder-free lithium storage. <i>Nanoscale</i> , 2019 , 11, 21728-21732	7.7	4
8	Enhanced transparent conductive properties of graphene/carbon nano-composite films. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 942-5	1.3	2

- 7 Generic Approach to Modulate Conductivity and Coat Discontinuous Gate Dielectrics of Carbon Nanotubes. *Journal of Physical Chemistry C*, **2007**, 111, 8098-8104 3.8 2
- 6 Scalable synthesis of silicon nanoplate-decorated graphite for advanced lithium-ion battery anodes. *Nanoscale*, **2021**, 13, 2820-2824 7.7 2
- 5 Cation-induced fast growth of ultrathin cuprous chloride nanoplatelets. *CrystEngComm*, **2016**, 18, 3340-3342 3.3 1
- 4 Scalable Fabrication of Carbon-Networked Size-Tunable V₂O₃ for Lithium Storage. *ACS Applied Energy Materials*, **2022**, 5, 3757-3765 6.1 0
- 3 Precursor-Controlled Synthesis of Nanocarbons for Lithium Ion Batteries **2015**, 59-85
- 2 Large-scale growth and characteristics of N-doped carbon nanotubes with ultra-large cavity. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1076-9 1.3
- 1 Graphene/Inorganic Composites as Electrode Materials for Lithium-Ion Batteries **2016**, 217-249