Weihan Li

List of Publications by Year in Descending Order

48 papers	4,009 citations	33 h-index	49 g-index
49 ext. papers	4,471 ext. citations	11.4 avg, IF	5.63 L-index

#	Paper	IF	Citations
48	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. *Chemistry of Materials*, **2021**, 33, 2029-2036	9.8	4
47	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. *Advanced Materials*, **2021**, 33, e2101259	24	14
46	Estimation of Potentials in Lithium-Ion Batteries Using Machine Learning Models. *IEEE Transactions on Control Systems Technology*, **2021**, 1-16	4.8	0
45	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. *Advanced Energy Materials*, **2021**, 11, 2100836	21.8	17
44	Understanding the Critical Role of Binders in Phosphorus/Carbon Anode for Sodium-Ion Batteries through Unexpected Mechanism. *Advanced Functional Materials*, **2020**, 30, 2000060	15.6	15
43	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. *Advanced Functional Materials*, **2020**, 30, 2001118	15.6	25
42	Cobalt-Doped SnS2 with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. *Advanced Functional Materials*, **2019**, 29, 1806724	15.6	139
41	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. *Advanced Energy Materials*, **2019**, 9, 1902125	21.8	72
40	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. *Small Methods*, **2018**, 2, 1700341	12.8	44
39	Carbon nanofiber interlayer: a highly effective strategy to stabilize silicon anodes for use in lithium-ion batteries. *Nanoscale*, **2018**, 10, 12430-12435	7.7	9
38	Si-, Ge-, Sn-Based Anode Materials for Lithium-Ion Batteries: From Structure Design to Electrochemical Performance. *Small Methods*, **2017**, 1, 1600037	12.8	174
37	Confined Amorphous Red Phosphorus in MOF-Derived N-Doped Microporous Carbon as a Superior Anode for Sodium-Ion Battery. *Advanced Materials*, **2017**, 29, 1605820	24	350
36	Carbon nanofiber-based nanostructures for lithium-ion and sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 13882-13906	13	101
35	Recent progress in Li□S and Li□Se batteries. *Rare Metals*, **2017**, 36, 339-364	5.5	66
34	Superior sodium storage in phosphorus@porous multichannel flexible freestanding carbon nanofibers. *Energy Storage Materials*, **2017**, 9, 112-118	19.4	38
33	Carbon-Coated NaV(PO) Anchored on Freestanding Graphite Foam for High-Performance Sodium-Ion Cathodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 32360-32365	9.5	40
32	Influence of Carbon Matrix Dimensions on the Electrochemical Performance of Germanium Oxide in Lithium-Ion Batteries. *Particle and Particle Systems Characterization*, **2016**, 33, 524-530	3.1	7

31	A flexible S1□Sex@porous carbon nanofibers (x□0.1) thin film with high performance for Li-S batteries and room-temperature Na-S batteries. *Energy Storage Materials*, **2016**, 5, 50-57	19.4	66
30	Amorphous Red Phosphorus Embedded in Highly Ordered Mesoporous Carbon with Superior Lithium and Sodium Storage Capacity. *Nano Letters*, **2016**, 16, 1546-53	11.5	307
29	Superior Sodium Storage in 3D Interconnected Nitrogen and Oxygen Dual-Doped Carbon Network. *Small*, **2016**, 12, 2559-66	11	127
28	Nanostructured electrode materials for lithium-ion and sodium-ion batteries via electrospinning. *Science China Materials*, **2016**, 59, 287-321	7.1	109
27	Three-dimensionally interconnected TaS3 nanowire network as anode for high-performance flexible Li-ion battery. *ACS Applied Materials & Interfaces*, **2015**, 7, 5629-33	9.5	19
26	Nanoconfined Carbon-Coated Na3V2(PO4)3 Particles in Mesoporous Carbon Enabling Ultralong Cycle Life for Sodium-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1402104	21.8	252
25	A carbon coated NASICON structure material embedded in porous carbon enabling superior sodium storage performance: NaTi2(PO4)3 as an example. *Nanoscale*, **2015**, 7, 14723-9	7.7	56
24	Electrospinning with partially carbonization in air: Highly porous carbon nanofibers optimized for high-performance flexible lithium-ion batteries. *Nano Energy*, **2015**, 13, 693-701	17.1	105
23	Nanoconfined antimony in sulfur and nitrogen co-doped three-dimensionally (3D) interconnected macroporous carbon for high-performance sodium-ion batteries. *Nano Energy*, **2015**, 18, 12-19	17.1	80
22	Engineering nanostructured electrode materials for high performance sodium ion batteries: a case study of a 3D porous interconnected WS2/C nanocomposite. *Journal of Materials Chemistry A*, **2015**, 3, 20487-20493	13	64
21	A Flexible Porous Carbon Nanofibers-Selenium Cathode with Superior Electrochemical Performance for Both Li-Se and Na-Se Batteries. *Advanced Energy Materials*, **2015**, 5, 1401377	21.8	191
20	Sodium-Ion Batteries: Sb Nanoparticles Encapsulated in a Reticular Amorphous Carbon Network for Enhanced Sodium Storage (Small 40/2015). *Small*, **2015**, 11, 5330-5330	11	
19	A General Strategy to Fabricate Carbon-Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for High-Performance Lithium and Sodium Ion Batteries. *Advanced Science*, **2015**, 2, 1500200	13.6	158
18	Metal Sulphides: A General Strategy to Fabricate Carbon-Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for High-Performance Lithium and Sodium Ion Batteries (Adv. Sci. 12/2015). *Advanced Science*, **2015**, 2,	13.6	1
17	Membranes of MnO Beading in Carbon Nanofibers as Flexible Anodes for High-Performance Lithium-Ion Batteries. *Scientific Reports*, **2015**, 5, 14146	4.9	32
16	Sb Nanoparticles Encapsulated in a Reticular Amorphous Carbon Network for Enhanced Sodium Storage. *Small*, **2015**, 11, 5381-7	11	60
15	Flexible copper-stabilized sulfur-carbon nanofibers with excellent electrochemical performance for Li-S batteries. *Nanoscale*, **2015**, 7, 10940-9	7.7	52
14	Atomic layer deposition derived amorphous TiO2 thin film decorating graphene nanosheets with superior rate capability. *Electrochemistry Communications*, **2015**, 57, 43-47	5.1	54

13	FeS@C on Carbon Cloth as Flexible Electrode for Both Lithium and Sodium Storage. *ACS Applied Materials & Interfaces*, **2015**, 7, 27804-9	9.5	172
12	Flexible one-dimensional carbon–selenium composite nanofibers with superior electrochemical performance for Li–Se/Na–Se batteries. *Journal of Power Sources*, **2015**, 281, 461-469	8.9	99
11	Carbon-Coated Germanium Nanowires on Carbon Nanofibers as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. *Small*, **2015**, 11, 2762-7	11	82
10	Facile synthesis of germanium–reduced graphene oxide composite as anode for high performance lithium-ion batteries. *RSC Advances*, **2014**, 4, 58184-58189	3.7	19
9	Superior lithium storage in a 3D macroporous graphene framework/SnO2 nanocomposite. *Nanoscale*, **2014**, 6, 7817-22	7.7	53
8	N-doped porous hollow carbon nanofibers fabricated using electrospun polymer templates and their sodium storage properties. *RSC Advances*, **2014**, 4, 16920-16927	3.7	47
7	Highly reversible lithium storage in a 3D macroporous Ge@C composite. *RSC Advances*, **2014**, 4, 37746-37751	3.7	16
6	Germanium nanoparticles encapsulated in flexible carbon nanofibers as self-supported electrodes for high performance lithium-ion batteries. *Nanoscale*, **2014**, 6, 4532-7	7.7	99
5	Crystalline red phosphorus incorporated with porous carbon nanofibers as flexible electrode for high performance lithium-ion batteries. *Carbon*, **2014**, 78, 455-462	10.4	130
4	Free-standing and binder-free sodium-ion electrodes with ultralong cycle life and high rate performance based on porous carbon nanofibers. *Nanoscale*, **2014**, 6, 693-8	7.7	225
3	Free-standing porous carbon nanofibers-sulfur composite for flexible Li-S battery cathode. *Nanoscale*, **2014**, 6, 9579-87	7.7	137
2	Free-standing and binder-free sodium-ion electrodes based on carbon-nanotube decorated Li4Ti5O12 nanoparticles embedded in carbon nanofibers. *RSC Advances*, **2014**, 4, 25220	3.7	24
1	Nitridation Br-doped Li4Ti5O12 anode for high rate lithium ion batteries. *Journal of Power Sources*, **2014**, 266, 323-331	8.9	55