

Cheol-Min Park

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

6,664
citations

38
h-index

81
g-index

115
ext. papers

7,393
ext. citations

9.6
avg, IF

6.4
L-index

#	Paper	IF	Citations
105	Self-Healing Graphene-Templated Platinum-Nickel Oxide Heterostructures for Overall Water Splitting.. <i>ACS Nano</i> , 2022 ,	16.7	6
104	Robust nanocube framework CoS ₂ -based composites as high-performance anodes for Li- and Na-ion batteries. <i>Composites Part B: Engineering</i> , 2022 , 231, 109592	10	2
103	Surfactant-derived porous Sn ₂ Nb ₂ O ₇ -graphene oxide composite as Li- and Na-ion storage materials. <i>Journal of Alloys and Compounds</i> , 2022 , 164943	5.7	0
102	Pd Nanocluster/Monolayer MoS Heterojunctions for Light-Induced Room-Temperature Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14644-14652	9.5	5
101	Implementation of Portable Automatic Tourniquet with High-Elasticity Biocompatible Strap. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4653	2.6	0
100	Sodium Quasi-Intercalation in Black P for Superior Sodium-Ion Battery Anodes. <i>Batteries and Supercaps</i> , 2021 , 4, 112-119	5.6	3
99	Sb-based intermetallics and nanocomposites as stable and fast Na-ion battery anodes. <i>Chemical Engineering Journal</i> , 2021 , 409, 127380	14.7	8
98	Insight into mechanism of temperature-dependent limit of NO ₂ detection using monolayer MoS ₂ . <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129138	8.5	7
97	Novel high-performance Ga ₂ Te ₃ anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20553-20564	13	0
96	High-performance carbon by amorphization and prepotassiation for potassium-ion battery anodes. <i>Carbon</i> , 2021 , 181, 290-299	10.4	5
95	Superior carbon black: High-performance anode and conducting additive for rechargeable Li- and Na-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 417, 129242	14.7	2
94	Atomic interactions of two-dimensional PtS ₂ quantum dots/TiC heterostructures for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 293, 120227	21.8	8
93	Monoclinic vanadium diphosphide as a high-performance lithium-ion battery anode. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160061	5.7	0
92	Black P@MO (M = Mg, Al, or Ti) composites as superior Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2021 , 424, 130366	14.7	1
91	Zinc Phosphides as Outstanding Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15053-15062	9.5	23
90	High-performance CoSbS-based Na-ion battery anodes. <i>Materials Today Energy</i> , 2020 , 17, 100470	7	2
89	Robust Polyhedral CoTe ₂ Nanocomposites as High-Performance Li- and Na-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4877-4887	6.1	15

88	Controllable desulfurization in single layer MoS ₂ by cationic current treatment in hydrogen evolution reaction. <i>Applied Surface Science</i> , 2020 , 507, 145181	6.7	8
87	Germanium telluride: Layered high-performance anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2020 , 331, 135393	6.7	10
86	CoTe compounds and their electrochemical performance as high-performance Li-ion battery anodes. <i>Materials Today Energy</i> , 2020 , 18, 100530	7	0
85	Si-based composite interconnected by multiple matrices for high-performance Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2020 , 381, 122619	14.7	24
84	Rational Design of Fe ₂ O ₃ Nanocube-Based Anodes for High-Performance Li-Ion Batteries. <i>ChemistrySelect</i> , 2019 , 4, 11103-11109	1.8	4
83	New high-energy-density GeTe-based anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3278-3288	13	40
82	2D layered Sb ₂ Se ₃ -based amorphous composite for high-performance Li- and Na-ion battery anodes. <i>Journal of Power Sources</i> , 2019 , 433, 126639	8.9	38
81	High Performance CoSn ₂ /SnO ₂ /C Nanocomposites for Li-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1114-A1120	3.9	5
80	Layered germanium phosphide-based anodes for high-performance lithium- and sodium-ion batteries. <i>Energy Storage Materials</i> , 2019 , 17, 78-87	19.4	47
79	Nanostructured FeSn ₂ /SnO ₂ -based composites as high-performance anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 80-87	5.7	3
78	Nanostructured Si-FeSi ₂ -Graphite-C Composite: An Optimized and Practical Solution for Si-Based Anodes for Superior Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2221-A2229	3.9	9
77	Facile conversion of waste glass into Li storage materials. <i>Green Chemistry</i> , 2019 , 21, 1439-1447	10	11
76	Effect of carbon coating on Cu electrodes for hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20641-20648	6.7	5
75	Investigation of electrochemical reaction mechanism for antimony selenide nanocomposite for sodium-ion battery electrodes. <i>Journal of Applied Electrochemistry</i> , 2019 , 49, 207-216	2.6	11
74	In situ fabrication of nanohybrid carbon/polyamide film providing robust binding and conductive network in silicon anode for lithium-ion battery. <i>Journal of Power Sources</i> , 2019 , 410-411, 25-30	8.9	20
73	Sn-Based Nanocomposite for Li-Ion Battery Anode with High Energy Density, Rate Capability, and Reversibility. <i>ACS Nano</i> , 2018 , 12, 2955-2967	16.7	78
72	Electrochemical mechanism of Li insertion/extraction in ZnS and ZnS/C anodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 265, 107-114	6.7	37
71	Porous carbon-free SnSb anodes for high-performance Na-ion batteries. <i>Journal of Power Sources</i> , 2018 , 386, 34-39	8.9	28

70	Two-dimensional SnS ₂ materials as high-performance NO ₂ sensors with fast response and high sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 616-621	8.5	51
69	Amorphous silicon dioxide-based composites for high-performance Li-ion battery anodes. <i>Electrochimica Acta</i> , 2018 , 284, 220-225	6.7	18
68	Puckered-layer-structured germanium monosulfide for superior rechargeable Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5685-5689	13	25
67	Mechanochemically induced transformation of CoO(OH) into Co ₃ O ₄ nanoparticles and their highly reversible Li storage characteristics. <i>RSC Advances</i> , 2017 , 7, 10618-10623	3.7	6
66	Tin Selenides with Layered Crystal Structures for Li-Ion Batteries: Interesting Phase Change Mechanisms and Outstanding Electrochemical Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15439-15448	9.5	61
65	Fe ₃ O ₄ nanoparticles produced by mechanochemical transformation: A highly reversible electrode material for Li-ion batteries. <i>Materials Letters</i> , 2017 , 199, 131-134	3.3	5
64	Cubic Crystal-Structured SnTe for Superior Li- and Na-Ion Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 6074-6084	6.7	64
63	Black P/graphene hybrid: A fast response humidity sensor with good reversibility and stability. <i>Scientific Reports</i> , 2017 , 7, 10561	4.9	34
62	Synthesis and Electrochemical Reaction Mechanism of Zn-TiO _x -C Nanocomposite Anode Materials for Li Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2683-A2688	3.9	7
61	Enhancement of hydrogen sorption properties of MgH ₂ with a MgF ₂ catalyst. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20120-20124	6.7	27
60	Highly Reversible Na-Ion Reaction in Nanostructured Sb ₂ Te ₃ -C Composites as Na-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2056-A2064	3.9	29
59	Partially reversible Li ₂ O formation in ZnO: A critical finding supporting realization of highly reversible metal oxide electrodes. <i>Journal of Power Sources</i> , 2016 , 328, 607-614	8.9	30
58	Electrochemical Li Topotactic Reaction in Layered SnP for Superior Li-Ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 35980	4.9	22
57	Highly Reversible and Superior Li-Storage Characteristics of Layered GeS and Its Amorphous Composites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29543-29550	9.5	28
56	Temporospatial Control of Graphene Wettability. <i>Advanced Materials</i> , 2016 , 28, 661-7	24	28
55	Silicon Diphosphide: A Si-Based Three-Dimensional Crystalline Framework as a High-Performance Li-Ion Battery Anode. <i>ACS Nano</i> , 2016 , 10, 5701-9	16.7	66
54	Sb ₂ S ₃ embedded in amorphous P/C composite matrix as high-performance anode material for sodium ion batteries. <i>Electrochimica Acta</i> , 2016 , 210, 588-595	6.7	47
53	Electrochemical lithium quasi-intercalation with arsenic. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 517-523	2.6	10

52	Graphene: Temporospatial Control of Graphene Wettability (Adv. Mater. 4/2016). <i>Advanced Materials</i> , 2016 , 28, 594-594	24	1
51	Layered Sb ₂ Te ₃ and its nanocomposite: a new and outstanding electrode material for superior rechargeable Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8562-8565	13	46
50	Te/C nanocomposites for Li-Te Secondary Batteries. <i>Scientific Reports</i> , 2015 , 5, 7969	4.9	71
49	Electrochemical lithium storage kinetics of self-organized nanochannel niobium oxide electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 746, 45-50	4.1	17
48	A Fundamental Understanding of Li Insertion/Extraction Behaviors in SnO and SnO ₂ . <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2811-A2816	3.9	23
47	Disproportionated Tin Oxide and Its Nanocomposite for High-Performance Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2015 , 3, 658-665	3.5	8
46	Nanomaterials for Green Science and Environmental Applications. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-1	3.2	2
45	Amorphized ZnSb-based composite anodes for high-performance Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 5830	3.7	13
44	CoxP compounds: electrochemical conversion/partial recombination reaction and partially disproportionated nanocomposite for Li-ion battery anodes. <i>RSC Advances</i> , 2014 , 4, 43227-43234	3.7	38
43	Co ₃ B intermetallic compounds and their disproportionated nanocomposites as high-performance anodes for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11391-11399	13	24
42	Electrochemical characteristics of ZnSe and its nanostructured composite for rechargeable Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 251, 319-324	8.9	80
41	ZnTe and ZnTe/C nanocomposite: a new electrode material for high-performance rechargeable Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20075-20082	13	37
40	Metallic anodes for next generation secondary batteries. <i>Chemical Society Reviews</i> , 2013 , 42, 9011-34	58.5	728
39	Effect of oxide layer thickness to nanoBi anode for Li-ion batteries. <i>RSC Advances</i> , 2013 , 3, 9408	3.7	31
38	Nanostructured SnSb/MO _x (M = Al or Mg)/C composites: hybrid mechanochemical synthesis and excellent Li storage performances. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15316	13	16
37	Modified SiO as a high performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 222, 129-834	13.4	136
36	Amorphized Sb-based composite for high-performance Li-ion battery anodes. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 700, 12-16	4.1	25
35	Sb-based nanostructured composite with embedded TiO ₂ for Li-ion battery anodes. <i>Materials Letters</i> , 2013 , 98, 15-18	3.3	14

34	Electrochemical characteristics of ternary compound CoSbS for application in Li secondary batteries. <i>Electrochemistry Communications</i> , 2013 , 28, 71-74	5.1	18
33	Reaction mechanism and enhancement of cyclability of SiO anodes by surface etching with NaOH for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4820	13	75
32	CNT@Fe ₃ O ₄ @C coaxial nanocables: one-pot, additive-free synthesis and remarkable lithium storage behavior. <i>Chemistry - A European Journal</i> , 2013 , 19, 9866-74	4.8	103
31	Electrochemical performance of pyrolyzed polyacrylonitrile (PAN) based Sn/C composite anode for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 671, 67-72	4.1	12
30	Quartz (SiO ₂): a new energy storage anode material for Li-ion batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 6895	35.4	308
29	Sn/In ₂ O ₃ /C Nanocomposite as an Anode for Li Ion Batteries and Its Reaction Mechanism. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1912-A1915	3.9	10
28	The electrochemical characteristics of Ag ₂ S and its nanocomposite anodes for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 667, 24-29	4.1	12
27	Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12767		79
26	Nanostructured cobalt oxide-based composites for rechargeable Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2631-2638	2.6	18
25	Fluorographene: a wide bandgap semiconductor with ultraviolet luminescence. <i>ACS Nano</i> , 2011 , 5, 1042-1047	6.7	350
24	Electrochemical behavior of SiO anode for Li secondary batteries. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 661, 245-249	4.1	93
23	Porous structured SnSb/C nanocomposites for Li-ion battery anodes. <i>Chemical Communications</i> , 2011 , 47, 2122-4	5.8	62
22	Bismuth sulfide and its carbon nanocomposite for rechargeable lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 2135-2139	6.7	71
21	Wire Explosion Synthesis of a Sn/C Nanocomposite as an Anode Material for Li Secondary Batteries. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 3458-3462	0.6	8
20	Electrochemical Characteristics of TiSb ₂ and Sb/TiC/C Nanocomposites as Anodes for Rechargeable Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A46	3.9	38
19	Stibnite (Sb ₂ S ₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1097-1102		78
18	Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4854		195
17	Li-alloy based anode materials for Li secondary batteries. <i>Chemical Society Reviews</i> , 2010 , 39, 3115-41	58.5	1308

16	Quasi-intercalation and facile amorphization in layered ZnSb for Li-ion batteries. <i>Advanced Materials</i> , 2010 , 22, 47-52	24	90
15	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 3324-3329	6.7	30
14	Antimonides (FeSb ₂ , CrSb ₂) with orthorhombic structure and their nanocomposites for rechargeable Li-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 4987-4994	6.7	32
13	Electrochemical Behaviors and Reaction Mechanism of Nanosilver with Lithium. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A171		37
12	Enhanced electrochemical properties of nanostructured bismuth-based composites for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2009 , 186, 206-210	8.9	98
11	Nanostructured Sn/TiO ₂ /C composite as a high-performance anode for Li-ion batteries. <i>Electrochemistry Communications</i> , 2009 , 11, 2165-2168	5.1	57
10	A mechano- and electrochemically controlled SnSb/C nanocomposite for rechargeable Li-ion batteries. <i>Electrochimica Acta</i> , 2009 , 54, 6367-6373	6.7	89
9	Topotactic Li Insertion/Extraction in Hexagonal Vanadium Monophosphide. <i>Chemistry of Materials</i> , 2009 , 21, 5566-5568	9.6	37
8	Novel Antimony/Aluminum/Carbon Nanocomposite for High-Performance Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2008 , 20, 3169-3173	9.6	54
7	Tetragonal Zinc Diphosphide and Its Nanocomposite as an Anode for Lithium Secondary Batteries. <i>Chemistry of Materials</i> , 2008 , 20, 6319-6324	9.6	72
6	Electrochemical Characterizations of Germanium and Carbon-Coated Germanium Composite Anode for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, A42		156
5	Reaction mechanism and electrochemical characterization of a Sn ₂ O ₃ /C composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2008 , 54, 364-369	6.7	47
4	Black Phosphorus and its Composite for Lithium Rechargeable Batteries. <i>Advanced Materials</i> , 2007 , 19, 2465-2468	24	542
3	Electrochemical properties of Si ₃ N ₄ /C composite as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2007 , 167, 520-523	8.9	26
2	High-Rate Capability and Enhanced Cyclability of Antimony-Based Composites for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A917	3.9	80
1	Enhancement of the rate capability and cyclability of an Mg ₂ Sb/C composite electrode for Li secondary batteries. <i>Journal of Power Sources</i> , 2006 , 158, 1451-1455	8.9	42