

Gi Dae Park

List of Publications by Year in descending order

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76
papers

2,553
citations

136885

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206029

48
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76
docs citations

76
times ranked

3210
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of <sc>MnSe</sc> @C yolk-shell nanospheres via a water vapor-assisted strategy for use as anode in sodium-ion batteries. International Journal of Energy Research, 2022, 46, 2500-2511.	2.2	16
2	Metal sulfoselenide solid solution embedded in porous hollow carbon nanospheres as effective anode material for potassium-ion batteries with long cycle life and enhanced rate performance. Chemical Engineering Journal, 2022, 428, 131051.	6.6	18
3	Double-shell and yolk-shell structured <sc>ZnSe</sc> -carbon nanospheres as anode materials for high-performance potassium-ion batteries. International Journal of Energy Research, 2022, 46, 3539-3553.	2.2	8
4	Aerosol-assisted synthesis of bimetallic nanoparticle-loaded bamboo-like N-doped carbon nanotubes as an efficient bifunctional oxygen catalyst for Zn-air batteries. International Journal of Energy Research, 2022, 46, 5215-5225.	2.2	8
5	Novel synthetic strategy for a nanostructured metal hydroxysulfide and its initial electrochemical investigation as a new anode material for potassium-ion batteries. International Journal of Energy Research, 2022, 46, 6323-6336.	2.2	2
6	Investigating the role of metals loaded on nitrogen-doped carbon-nanotube electrodes in electroenzymatic alcohol dehydrogenation. Applied Catalysis B: Environmental, 2022, 307, 121195.	10.8	11
7	Investigation of the potassium-ion storage mechanism of nickel selenide materials and rational design of nickel <sc>selenide</sc> yolk-shell structure for enhancing electrochemical properties. International Journal of Energy Research, 2022, 46, 5800-5810.	2.2	7
8	Morphological and Electrochemical Properties of ZnMn ₂ O ₄ Nanopowders and Their Aggregated Microspheres Prepared by Simple Spray Drying Process. Nanomaterials, 2022, 12, 680.	1.9	4
9	Electrochemical properties of yolk-shell structured cobalt hydroxy chloride-carbon composite as an anode for lithium-ion batteries. International Journal of Energy Research, 2022, 46, 9761-9770.	2.2	3
10	Rational synthesis of uniform yolk-shell Ni-Fe bimetallic sulfide nanoflakes@porous carbon nanospheres as advanced anodes for high-performance potassium-/sodium-ion batteries. Chemical Engineering Journal, 2021, 417, 127963.	6.6	32
11	Recent Advances in Heterostructured Anode Materials with Multiple Anions for Advanced Alkali-ion Batteries. Advanced Energy Materials, 2021, 11, 2003058.	10.2	60
12	Uniquely structured iron hydroxide-carbon nanospheres with yolk-shell and hollow structures and their excellent lithium-ion storage performances. Applied Surface Science, 2021, 542, 148637.	3.1	6
13	Initial investigation of bimetal hydroxysulfide as a new anode material for efficient sodium-ion storage. Chemical Engineering Journal, 2021, 410, 128401.	6.6	6
14	Synthesis of yolk-shell structured iron monosulfide-carbon microspheres and understanding of their conversion reaction for potassium-ion storage. International Journal of Energy Research, 2021, 45, 14910-14919.	2.2	11
15	Synthesis of three-dimensional Co/CoO/N-doped carbon nanotube composite for zinc air battery. International Journal of Energy Research, 2021, 45, 16091-16101.	2.2	4
16	Yolk-shell structured Nanospheres with Goat Pupil-like S-doped SnSe Yolk and Hollow Carbon-shell Configuration as Anode Material for Sodium-ion Storage. Small Methods, 2021, 5, e2100302.	4.6	17
17	A strategy for fabricating three-dimensional porous architecture comprising metal oxides/CNT as highly active and durable bifunctional oxygen electrocatalysts and their application in rechargeable Zn-air batteries. Chemical Engineering Journal, 2021, 414, 128815.	6.6	13
18	Novel synthesis method of cobalt hydroxycarbonate hydrate-reduced graphene oxide composite microspheres for lithium-ion battery anode. International Journal of Energy Research, 2021, 45, 20302.	2.2	1

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19	New strategy to synthesize optimal cobalt diselenide@hollow mesoporous carbon nanospheres for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 424, 130341.	6.6	20
20	Structural combination of polar hollow microspheres and hierarchical N-doped carbon nanotubes for high-performance Li-S batteries. <i>Nanoscale</i> , 2020, 12, 2142-2153.	2.8	21
21	Towards an efficient anode material for Li-ion batteries: understanding the conversion mechanism of nickel hydroxy chloride with Li- ions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1939-1946.	5.2	34
22	Conversion reaction mechanism of cobalt telluride-carbon composite microspheres synthesized by spray pyrolysis process for K-ion storage. <i>Applied Surface Science</i> , 2020, 529, 147140.	3.1	37
23	Conversion Reaction Mechanism of Ultrafine Bimetallic Co-Fe Selenides Embedded in Hollow Mesoporous Carbon Nanospheres and Their Excellent K-ion Storage Performance. <i>Small</i> , 2020, 16, e2002345.	5.2	54
24	Amorphous Cobalt Selenite Nanoparticles Decorated on a Graphitic Carbon Hollow Shell for High-Rate and Ultralong Cycle Life Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17707-17717.	3.2	15
25	Efficient strategy for hollow carbon nanospheres embedded with nickel hydroxide nanocrystals and their excellent lithium-ion storage performances. <i>Scripta Materialia</i> , 2020, 188, 112-117.	2.6	10
26	Conversion Reaction Mechanism for Yolk-Shell-Structured Iron Telluride@Carbon Nanospheres and Exploration of Their Electrochemical Performance as an Anode Material for Potassium-Ion Batteries. <i>Small Methods</i> , 2020, 4, 2000556.	4.6	38
27	Enhanced Li-ion storage performance of novel tube-in-tube structured nanofibers with hollow metal oxide nanospheres covered with a graphitic carbon layer. <i>Nanoscale</i> , 2020, 12, 8404-8414.	2.8	9
28	Investigation of cobalt hydroxysulfide as a new anode material for Li-ion batteries and its conversion reaction mechanism with Li-ions. <i>Chemical Engineering Journal</i> , 2020, 401, 126121.	6.6	22
29	Lithium ion storage mechanism exploration of copper selenite as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154309.	2.8	20
30	Electrochemical reaction mechanism of amorphous iron selenite with ultrahigh rate and excellent cyclic stability performance as new anode material for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 389, 124350.	6.6	42
31	Amorphous iron oxide@selenite composite microspheres with a yolk-shell structure as highly efficient anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 10790-10798.	2.8	26
32	Aerosol-assisted synthesis of porous and hollow carbon-carbon nanotube composite microspheres as sulfur host materials for high-performance Li-S batteries. <i>Applied Surface Science</i> , 2019, 495, 143637.	3.1	21
33	Yolk-shell-structured microspheres composed of N-doped-carbon-coated NiMoO ₄ hollow nanospheres as superior performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 631-638.	2.8	41
34	Unique structured microspheres with multishells comprising graphitic carbon-coated Fe ₃ O ₄ hollow nanopowders as anode materials for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15766-15773.	5.2	61
35	Pitch-derived yolk-shell-structured carbon microspheres as efficient sulfur host materials and their application as cathode material for Li-S batteries. <i>Chemical Engineering Journal</i> , 2019, 373, 382-392.	6.6	41
36	Synthesis Process of CoSeO ₃ Microspheres for Unordinary Li-ion Storage Performances and Mechanism of Their Conversion Reaction with Li ions. <i>Small</i> , 2019, 15, e1901320.	5.2	49

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37	Pitch-derived carbon coated SnO ₂ @CoO yolk-shell microspheres with excellent long-term cycling and rate performances as anode materials for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 369, 726-735.	6.6	40
38	Carbon microspheres with micro- and mesopores synthesized via spray pyrolysis for high-energy-density, electrical-double-layer capacitors. <i>Chemical Engineering Journal</i> , 2019, 365, 193-200.	6.6	33
39	Investigation of Binary Metal (Ni, Co) Selenite as Li-ion Battery Anode Materials and Their Conversion Reaction Mechanism with Li Ions. <i>Small</i> , 2019, 15, e1905289.	5.2	51
40	Strategy for synthesizing mesoporous NiO polyhedra with empty nanovoids via oxidation of NiSe polyhedra by nanoscale Kirkendall diffusion and their superior lithium-ion storage performance. <i>Applied Surface Science</i> , 2019, 464, 597-605.	3.1	12
41	Fabrication of bimodal micro-mesoporous amorphous carbon-graphitic carbon-reduced graphene oxide composite microspheres prepared by pilot-scale spray drying and their application in supercapacitors. <i>Carbon</i> , 2019, 144, 591-600.	5.4	24
42	Germanium Nanoparticle-Dispersed Reduced Graphene Oxide Balls Synthesized by Spray Pyrolysis for Li-ion Battery Anode. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 65-70.	1.1	9
43	Design and Synthesis of Spherical Multicomponent Aggregates Composed of Core-Shell, Yolk-Shell, and Hollow Nanospheres and Their Lithium-ion Storage Performances. <i>Small</i> , 2018, 14, e1703957.	5.2	25
44	Multiroom-structured multicomponent metal selenide-graphitic carbon-carbon nanotube hybrid microspheres as efficient anode materials for sodium-ion batteries. <i>Nanoscale</i> , 2018, 10, 8125-8132.	2.8	35
45	Three-dimensional macroporous CNTs microspheres highly loaded with NiCo ₂ O ₄ hollow nanospheres showing excellent lithium-ion storage performances. <i>Carbon</i> , 2018, 128, 191-200.	5.4	38
46	Mesoporous graphitic carbon-TiO ₂ composite microspheres produced by a pilot-scale spray-drying process as an efficient sulfur host material for Li-S batteries. <i>Chemical Engineering Journal</i> , 2018, 335, 600-611.	6.6	59
47	Rational design and synthesis of hierarchically structured SnO ₂ microspheres assembled from hollow porous nanoplates as superior anode materials for lithium-ion batteries. <i>Nano Research</i> , 2018, 11, 1301-1312.	5.8	32
48	Carbon microspheres with well-developed micro- and mesopores as excellent selenium host materials for lithium-selenium batteries with superior performances. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21410-21418.	5.2	16
49	Design and synthesis of interconnected hierarchically porous anatase titanium dioxide nanofibers as high-rate and long-cycle-life anodes for lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 13539-13547.	2.8	17
50	Lithium-ion storage performances of sunflower-like and nano-sized hollow SnO ₂ spheres by spray pyrolysis and the nanoscale Kirkendall effect. <i>Nanoscale</i> , 2018, 10, 13531-13538.	2.8	24
51	Three-dimensional porous microspheres comprising hollow Fe ₂ O ₃ nanorods/CNT building blocks with superior electrochemical performance for lithium ion batteries. <i>Nanoscale</i> , 2018, 10, 11150-11157.	2.8	46
52	Superior Electrochemical Properties of Composite Microspheres Consisting of Hollow Fe ₂ O ₃ Nanospheres and Graphitic Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11759-11767.	3.2	13
53	Batteries: Synthesis of Uniquely Structured SnO ₂ Hollow Nanoplates and Their Electrochemical Properties for Li-ion Storage (<i>Adv. Funct. Mater.</i> 4/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
54	Electrochemical properties of amorphous GeO _x -C composite microspheres prepared by a one-pot spray pyrolysis process. <i>Ceramics International</i> , 2017, 43, 5534-5540.	2.3	7

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55	Aerosol synthesis of molybdenum diselenideâ€“reduced graphene oxide composite with empty nanovoids and enhanced hydrogen evolution reaction performances. <i>Chemical Engineering Journal</i> , 2017, 315, 355-363.	6.6	43
56	MoSe ₂ Embedded CNT-Reduced Graphene Oxide Composite Microsphere with Superior Sodium Ion Storage and Electrocatalytic Hydrogen Evolution Performances. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10673-10683.	4.0	174
57	Rational Design and Synthesis of Extremely Efficient Macroporous CoSe ₂ -CNT Composite Microspheres for Hydrogen Evolution Reaction. <i>Small</i> , 2017, 13, 1700068.	5.2	116
58	Design and synthesis of Janus-structured mutually doped SnO ₂ â€“Co ₃ O ₄ hollow nanostructures as superior anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25319-25327.	5.2	49
59	Synthesis of Uniquely Structured SnO ₂ Hollow Nanoplates and Their Electrochemical Properties for Li-ion Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1603399.	7.8	96
60	Oneâ€“Pot Synthesis of CoSe _x â€“rGO Composite Powders by Spray Pyrolysis and Their Application as Anode Material for Sodium-ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 4140-4146.	1.7	124
61	Superior Na-ion storage properties of high aspect ratio SnSe nanoplates prepared by a spray pyrolysis process. <i>Nanoscale</i> , 2016, 8, 11889-11896.	2.8	70
62	Large-scale production of spherical FeSe ₂ -amorphous carbon composite powders as anode materials for sodium-ion batteries. <i>Materials Characterization</i> , 2016, 120, 349-356.	1.9	72
63	Na-ion Storage Performances of FeSe _x and Fe ₂ O ₃ Hollow Nanoparticles-Decorated Reduced Graphene Oxide Balls prepared by Nanoscale Kirkendall Diffusion Process. <i>Scientific Reports</i> , 2016, 6, 22432.	1.6	64
64	Superior Lithium-ion Storage Properties of Mesoporous CuOâ€“Reduced Graphene Oxide Composite Powder Prepared by a Twoâ€“Step Sprayâ€“Drying Process. <i>Chemistry - A European Journal</i> , 2015, 21, 9179-9184.	1.7	25
65	Phase-pure Î²-NiMoO ₄ yolk-shell spheres for high-performance anode materials in lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 174, 102-110.	2.6	52
66	Large-Scale Production of MoO ₃ -Reduced Graphene Oxide Powders with Superior Lithium Storage Properties by Spray-Drying Process. <i>Electrochimica Acta</i> , 2015, 173, 581-587.	2.6	38
67	Multiphase and Double-Layer NiFe ₂ O ₄ @NiO-Hollow-Nanosphere-Decorated Reduced Graphene Oxide Composite Powders Prepared by Spray Pyrolysis Applying Nanoscale Kirkendall Diffusion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16842-16849.	4.0	57
68	Kilogram-Scale Synthesis of Pd-Loaded Quintuple-Shelled Co ₃ O ₄ Microreactors and Their Application to Ultrasensitive and Ultrasensitive Detection of Methylbenzenes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7717-7723.	4.0	56
69	Novel cobalt oxide-nanobubble-decorated reduced graphene oxide sphere with superior electrochemical properties prepared by nanoscale Kirkendall diffusion process. <i>Nano Energy</i> , 2015, 17, 17-26.	8.2	70
70	Superior electrochemical properties of spherical-like Co ₂ (OH) ₃ Cl-reduced graphene oxide composite powders with ultrafine nanocrystals. <i>Carbon</i> , 2015, 84, 14-23.	5.4	23
71	Electrochemical properties of cobalt hydroxychloride microspheres as a new anode material for Li-ion batteries. <i>Scientific Reports</i> , 2015, 4, 5785.	1.6	30
72	Oneâ€“Pot Method for Synthesizing Sphericalâ€“Like Metal Sulfideâ€“Reduced Graphene Oxide Composite Powders with Superior Electrochemical Properties for Lithium-ion Batteries. <i>Chemistry - A European Journal</i> , 2014, 20, 12183-12189.	1.7	36

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73	Electrochemical properties of ultrafine TiO ₂ -doped MoO ₃ nanoplates prepared by one-pot flame spray pyrolysis. RSC Advances, 2014, 4, 17382.	1.7	19
74	Effect of esterification reaction of citric acid and ethylene glycol on the formation of multi-shelled cobalt oxide powders with superior electrochemical properties. Nano Research, 2014, 7, 1738-1748.	5.8	47
75	Characteristics of precursor powders of a nickel-rich cathode material prepared by a spray drying process using water-soluble metal salts. RSC Advances, 2014, 4, 44203-44207.	1.7	20
76	Electrochemical properties of sulfur@carbon hollow nanospheres with varied polar titanium oxide layer location for lithium-sulfur batteries. International Journal of Energy Research, 0, , .	2.2	3