

Seung-Keun Park

List of Publications by Year in descending order

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77
papers

4,893
citations

70961

41
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91712

69
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77
all docs

77
docs citations

77
times ranked

6290
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge-exposed MoS ₂ nano-assembled structures as efficient electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , 2014, 6, 2131-2136.	2.8	260
2	One-Step Facile Solvothermal Synthesis of Copper Ferrite@Graphene Composite as a High-Performance Supercapacitor Material. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2404-2414.	4.0	215
3	Metal-organic framework-derived CoSe ₂ /(NiCo)Se ₂ box-in-box hollow nanocubes with enhanced electrochemical properties for sodium-ion storage and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18823-18830.	5.2	213
4	Excellent sodium-ion storage performances of CoSe ₂ nanoparticles embedded within N-doped porous graphitic carbon nanocube/carbon nanotube composite. <i>Chemical Engineering Journal</i> , 2017, 328, 546-555.	6.6	187
5	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
6	MOF-Templated N-Doped Carbon-Coated CoSe ₂ Nanorods Supported on Porous CNT Microspheres with Excellent Sodium-Ion Storage and Electrocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17203-17213.	4.0	164
7	In Situ Hydrothermal Synthesis of Mn ₃ O ₄ Nanoparticles on Nitrogen-doped Graphene as High-Performance Anode materials for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014, 120, 452-459.	2.6	145
8	A simple cysteine-assisted method for the growth of MoS ₂ nanosheets on carbon nanotubes for high-performance lithium ion batteries. <i>Dalton Transactions</i> , 2013, 42, 2399-2405.	1.6	131
9	Mesoporous CoSe ₂ nanoclusters threaded with nitrogen-doped carbon nanotubes for high-performance sodium-ion battery anodes. <i>Chemical Engineering Journal</i> , 2019, 370, 1008-1018.	6.6	131
10	Yolk-Shell Structured Assembly of Bamboo-Like Nitrogen-Doped Carbon Nanotubes Embedded with Co Nanocrystals and Their Application as Cathode Material for Li-S Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705264.	7.8	122
11	Scalable Synthesis of Few-Layer MoS ₂ Incorporated into Hierarchical Porous Carbon Nanosheets for High-Performance Li- and Na-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19456-19465.	4.0	120
12	A chemically activated graphene-encapsulated LiFePO ₄ composite for high-performance lithium ion batteries. <i>Nanoscale</i> , 2013, 5, 8647.	2.8	118
13	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse SnO ₂ nanoparticles onto graphene for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 2520-2525.	6.7	116
14	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
15	Electrochemical deposition of bismuth on activated graphene-nafion composite for anodic stripping voltammetric determination of trace heavy metals. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 62-69.	4.0	109
16	A Salt-Templated Strategy toward Hollow Iron Selenides@Graphitic Carbon Composite Microspheres with Interconnected Multicavities as High-Performance Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1803043.	5.2	108
17	Selenium-infiltrated metal-organic framework-derived porous carbon nanofibers comprising interconnected bimodal pores for Li-Se batteries with high capacity and rate performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1028-1036.	5.2	103
18	A facile and green strategy for the synthesis of MoS ₂ nanospheres with excellent Li-ion storage properties. <i>CrystEngComm</i> , 2012, 14, 8323.	1.3	98

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19	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4293-4305.	7.8	96
20	Three-dimensional carbon foam/N-doped graphene@MoS ₂ hybrid nanostructures as effective electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12720-12725.	5.2	93
21	Voltammetric determination of trace heavy metals using an electrochemically deposited graphene/bismuth nanocomposite film-modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 766, 120-127.	1.9	90
22	A MOF-mediated strategy for constructing human backbone-like CoMoS ₃ @N-doped carbon nanostructures with multiple voids as a superior anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13751-13761.	5.2	85
23	MOF-Derived CoSe ₂ @N-Doped Carbon Matrix Confined in Hollow Mesoporous Carbon Nanospheres as High-Performance Anodes for Potassium-Ion Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 9.	14.4	83
24	One-dimensional nanostructure comprising MoSe ₂ nanosheets and carbon with uniformly defined nanovoids as an anode for high-performance sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 351, 559-568.	6.6	82
25	Metal-Organic Framework-Derived Hollow CoS _x Nanoarray Coupled with NiFe Layered Double Hydroxides as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2022, 18, e2200586.	5.2	81
26	A one-pot microwave-assisted non-aqueous sol-gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. <i>RSC Advances</i> , 2011, 1, 1687.	1.7	75
27	Metal-Organic-Framework-Derived N-Doped Hierarchically Porous Carbon Polyhedrons Anchored on Crumpled Graphene Balls as Efficient Selenium Hosts for High-Performance Lithium-Selenium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16531-16540.	4.0	64
28	Electrochemical properties of uniquely structured Fe ₂ O ₃ and FeSe ₂ /graphitic-carbon microrods synthesized by applying a metal-organic framework. <i>Chemical Engineering Journal</i> , 2018, 334, 2440-2449.	6.6	64
29	Scalable Synthesis of Honeycomb-like Ordered Mesoporous Carbon Nanosheets and Their Application in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2430-2438.	4.0	61
30	Carbon-Coated Three-Dimensional MXene/Iron Selenide Ball with Core-Shell Structure for High-Performance Potassium-Ion Batteries. <i>Nano-Micro Letters</i> , 2022, 14, 17.	14.4	61
31	Porous Mn ₃ O ₄ nanorod/reduced graphene oxide hybrid paper as a flexible and binder-free anode material for lithium ion battery. <i>Energy</i> , 2016, 99, 266-273.	4.5	57
32	Conversion Reaction Mechanism of Ultrafine Bimetallic Co-Fe Selenides Embedded in Hollow Mesoporous Carbon Nanospheres and Their Excellent K ⁺ Storage Performance. <i>Small</i> , 2020, 16, e2002345.	5.2	54
33	Enhanced electrocatalysis of PtRu onto graphene separated by Vulcan carbon spacer. <i>Journal of Power Sources</i> , 2013, 222, 261-266.	4.0	51
34	Uniquely structured composite microspheres of metal sulfides and carbon with cubic nanorooms for highly efficient anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2636-2645.	5.2	50
35	Rational design of metal-organic framework-templated hollow NiCo ₂ O ₄ polyhedrons decorated on macroporous CNT microspheres for improved lithium-ion storage properties. <i>Chemical Engineering Journal</i> , 2018, 349, 214-222.	6.6	49
36	Solventless synthesis of an iron-oxide/graphene nanocomposite and its application as an anode in high-rate Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15442.	5.2	48

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37	Sulfur-loaded monodisperse carbon nanocapsules anchored on graphene nanosheets as cathodes for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 975-981.	5.2	47
38	Mesoporous reduced graphene oxide/WSe ₂ composite particles for efficient sodium-ion batteries and hydrogen evolution reactions. <i>Applied Surface Science</i> , 2018, 459, 309-317.	3.1	47
39	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
40	Hierarchical Tubular-Structured MoSe ₂ Nanosheets/N-Doped Carbon Nanocomposite with Enhanced Sodium Storage Properties. <i>ChemSusChem</i> , 2020, 13, 1546-1555.	3.6	45
41	Aerosol synthesis of molybdenum diselenide-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
42	Unique hollow NiO nanooctahedrons fabricated through the Kirkendall effect as anodes for enhanced lithium-ion storage. <i>Chemical Engineering Journal</i> , 2018, 354, 327-334.	6.6	43
43	Electrochemical codeposition of Pt/graphene catalyst for improved methanol oxidation. <i>Current Applied Physics</i> , 2015, 15, 219-225.	1.1	35
44	N-doped carbon-coated CoSe ₂ nanocrystals anchored on two-dimensional MXene nanosheets for efficient electrochemical sodium and potassium ion storage. <i>International Journal of Energy Research</i> , 2021, 45, 17738-17748.	2.2	35
45	Electrospun MOF-based ZnSe nanocrystals confined in N-doped mesoporous carbon fibers as anode materials for potassium ion batteries with long-term cycling stability. <i>Chemical Engineering Journal</i> , 2021, 425, 131651.	6.6	35
46	Metal-organic framework-templated hollow Co ₃ O ₄ nanosphere aggregate/N-doped graphitic carbon composite powders showing excellent lithium-ion storage performances. <i>Materials Characterization</i> , 2017, 132, 320-329.	1.9	33
47	Structure-optimized CoP-carbon nanotube composite microspheres synthesized by spray pyrolysis for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2018, 763, 652-661.	2.8	32
48	Rational synthesis of uniform yolk-shell Ni-Fe bimetallic sulfide nanoflakes@porous carbon nanospheres as advanced anodes for high-performance potassium-/sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 417, 127963.	6.6	32
49	Co-MOF derived MoSe ₂ @CoSe ₂ /N-doped carbon nanorods as high-performance anode materials for potassium ion batteries. <i>International Journal of Energy Research</i> , 2022, 46, 10677-10688.	2.2	32
50	Synthesis of hierarchical structured Fe ₂ O ₃ rod clusters with numerous empty nanovoids via the Kirkendall effect and their electrochemical properties for lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8462-8469.	5.2	31
51	Remote Control of Time-Regulated Stretching of Ligand-Presenting Nanocoils In Situ Regulates the Cyclic Adhesion and Differentiation of Stem Cells. <i>Advanced Materials</i> , 2021, 33, e2008353.	11.1	31
52	Hierarchical hollow microspheres grafted with Co nanoparticle-embedded bamboo-like N-doped carbon nanotube bundles as ultrahigh rate and long-life cathodes for rechargeable lithium-oxygen batteries. <i>Chemical Engineering Journal</i> , 2018, 334, 2500-2510.	6.6	30
53	Advances in the synthesis and design of nanostructured materials by aerosol spray processes for efficient energy storage. <i>Nanoscale</i> , 2019, 11, 19012-19057.	2.8	30
54	Amorphous Molybdenum Sulfide on Three-Dimensional Hierarchical Hollow Microspheres Comprising Bamboo-like N-Doped Carbon Nanotubes as a Highly Active Hydrogen Evolution Reaction Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12706-12715.	3.2	28

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55	Highly efficient hierarchical multiroom-structured molybdenum carbide/carbon composite microspheres grafted with nickel-nanoparticle-embedded nitrogen-doped carbon nanotubes as air electrode for lithium-oxygen batteries. <i>Chemical Engineering Journal</i> , 2018, 351, 886-896.	6.6	28
56	N-doped Carbon Framework/Reduced Graphene Oxide Nanocomposite as a Sulfur Reservoir for Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2016, 222, 1345-1353.	2.6	27
57	Design of house centipede-like MoCâ€“Mo ₂ C nanorods grafted with N-doped carbon nanotubes as bifunctional catalysts for high-performance Liâ€“O ₂ batteries. <i>Chemical Engineering Journal</i> , 2020, 384, 123344.	6.6	27
58	The general synthesis and characterization of rare earth orthovanadate nanocrystals and their electrochemical applications. <i>Journal of Alloys and Compounds</i> , 2017, 693, 825-831.	2.8	24
59	Constructing hollow CoSe ₂ /SnSe ₂ heterostructures covered with N-doped carbon shell for high-efficiency potassium-ion storage. <i>Applied Surface Science</i> , 2022, 571, 151293.	3.1	22
60	An acid-treated reduced graphene oxide/Mn ₃ O ₄ nanorod nanocomposite as an enhanced anode material for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 37502-37507.	1.7	21
61	A Simple Dip-coating Approach for Preparation of Three-dimensional Multilayered Graphene-Metal Oxides Hybrid Nanostructures as High Performance Lithium-Ion Battery Electrodes. <i>Electrochimica Acta</i> , 2015, 176, 1182-1190.	2.6	20
62	Metalâ€“organic frameworks derived FeSe ₂ @C nanorods interconnected by Nâ€“doped graphene nanosheets as advanced anode materials for Naâ€“ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 20909-20920.	2.2	20
63	Design and tailoring of three-dimensional grapheneâ€“Vulcan carbonâ€“Bi ₂ S ₃ ternary nanostructures for high-performance lithium-ion-battery anodes. <i>RSC Advances</i> , 2015, 5, 52687-52694.	1.7	19
64	Recent Advances in Aerosolâ€“Assisted Spray Processes for the Design and Fabrication of Nanostructured Metal Chalcogenides for Sodiumâ€“ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3127-3140.	1.7	19
65	Facile synthesis of Au-graphene nanocomposite for the selective determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2016, 776, 66-73.	1.9	17
66	Trimodally porous N-doped carbon frameworks with an interconnected pore structure as selenium immobilizers for high-performance Li-Se batteries. <i>Materials Characterization</i> , 2019, 151, 590-601.	1.9	16
67	N-doped carbon coated Ni-Mo sulfide tubular structure decorated with nanobubbles for enhanced sodium storage performance. <i>Chemical Engineering Journal</i> , 2020, 383, 123112.	6.6	16
68	Facile synthesis of crumpled nitrogen-doped carbon/molybdenum disulfide hybrid sheets as high-rate anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 319, 596-605.	2.6	15
69	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
70	Chemically Integrating MXene Nanosheets with N-Doped C-Coated Si Nanoparticles for Enhanced Li Storage Performance. <i>Scripta Materialia</i> , 2021, 199, 113840.	2.6	12
71	Superior lithium-ion storage performances of SnO ₂ powders consisting of hollow nanoplates. <i>Journal of Alloys and Compounds</i> , 2019, 797, 380-389.	2.8	10
72	Two-dimensional composite of Nitrogen-doped graphitic Carbon-coated cobaltic oxide nanocrystals on MXene nanosheets as High-performance anode for Lithium-ion batteries. <i>Applied Surface Science</i> , 2021, 564, 150415.	3.1	9

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73	Rational design of hierarchical Ni-Mo bimetallic Selenide/N-doped carbon microspheres toward high-performance potassium ion batteries. <i>Applied Surface Science</i> , 2022, 583, 152491.	3.1	9
74	Facile Synthesis of One-Dimensional Iron-Oxide/Carbon Hybrid Nanostructures as Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 8852-8857.	0.9	8
75	Solvothermal Synthesis of a Molybdenum Disulfide/Reduced Porous Graphene Oxide Nanocomposite as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 1200-1207.	1.8	7
76	Superior electrochemical properties of micron-sized aggregates of (Co _{0.5} Fe _{0.5}) ₃ O ₄ hollow nanospheres and graphitic carbon. <i>Chemical Engineering Journal</i> , 2018, 346, 351-360.	6.6	5
77	Magnetic Nanocoils: Remote Control of Time-Regulated Stretching of Ligand-Presenting Nanocoils In Situ Regulates the Cyclic Adhesion and Differentiation of Stem Cells (<i>Adv. Mater.</i> 11/2021). <i>Advanced Materials</i> , 2021, 33, 2170084.	11.1	0