Yun Chan Kang

List of Publications by Year
in descending order

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		7096	22166
645	24,438	78	113
papers	citations	h-index	g-index

658	658	658	18688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase control of WCâ€“Co hardmetal using additive manufacturing technologies. Powder Metallurgy, 2022, 65, 13-21.	1.7	13
2	Synthesis of <scp>MnSe</scp> @C yolkâ€shell nanospheres via a water vaporâ€assisted strategy for use as anode in sodiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 2500-2511.	4.5	16
3	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.	12.7	18
4	Deliberate introduction of mesopores into microporous activated carbon toward efficient Se cathode of <scp>Naâ^'Se</scp> batteries. International Journal of Energy Research, 2022, 46, 3396-3408.	4.5	6
5	Doubleâ€shell and yolkâ€shell structured <scp>ZnSe</scp> â€carbon nanospheres as anode materials for highâ€performance potassiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 3539-3553.	4.5	8
6	A 3D Porous Inverse Opal Ni Structure on a Cu Current Collector for Stable Lithiumâ€Metal Batteries. Batteries and Supercaps, 2022, 5, e202100257.	4.7	5
7	Aerosolâ€assisted synthesis of bimetallic nanoparticleâ€loaded bambooâ€like Nâ€doped carbon nanotubes as an efficient bifunctional oxygen catalyst for Znâ€air batteries. International Journal of Energy Research, 2022, 46, 5215-5225.	4.5	8
8	Novel synthetic strategy for a nanostructured metal hydroxysulfideâ€ and its initial electrochemical investigation as a new anode material for potassiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 6323-6336.	4.5	2
9	Porous nitrogen-doped graphene nanofibers comprising metal organic framework-derived hollow and ultrafine layered double metal oxide nanocrystals as high-performance anodes for lithium-ion batteries. Journal of Power Sources, 2022, 523, 231030.	7.8	26
10	Investigating the role of metals loaded on nitrogen-doped carbon-nanotube electrodes in electroenzymatic alcohol dehydrogenation. Applied Catalysis B: Environmental, 2022, 307, 121195.	20.2	11
11	Investigation of the potassiumâ€ion storage mechanism of nickel selenide materials and rational design of nickel <scp>selenideâ€</scp> yolkâ€shell structure for enhancing electrochemical properties. International Journal of Energy Research, 2022, 46, 5800-5810.	4.5	7
12	Carbon-Coated Three-Dimensional MXene/Iron Selenide Ball with Coreâ€“Shell Structure for High-Performance Potassium-Ion Batteries. Nano-Micro Letters, 2022, 14, 17.	27.0	61
13	Morphological and Electrochemical Properties of ZnMn2O4 Nanopowders and Their Aggregated Microspheres Prepared by Simple Spray Drying Process. Nanomaterials, 2022, 12, 680.	4.1	4
14	Electrochemical properties of yolkâ€shell structured cobalt hydroxy chlorideâ€carbon composite as an anode for lithiumâ€ion batteries. International Journal of Energy Research, 2022, 46, 9761-9770.	4.5	3
15	One-pot spray pyrolysis for coreâ€“shell structured Sn@SiOC anode nanocomposites that yield stable cycling in lithium-ion batteries. Applied Surface Science, 2022, 589, 152952.	6.1	7
16	Less energy-intensive synthesis of mesoporous multi-oriented graphite microspheres with low defect concentration for advanced potassium-ion battery anodes. Chemical Engineering Journal, 2022, 443, 136545.	12.7	10
17	A Novel Highâ€Performance TiO_{2â€x}/TiO_{1â€y}N_y Coating Material for Silicon Anode in Lithiumâ€Ion Batteries. Small Methods, 2022, 6, .	8.6	9
18	Self-supported hierarchically porous 3D carbon nanofiber network comprising Ni/Co/NiCo2O4 nanocrystals and hollow N-doped C nanocages as sulfur host for highly reversible Liâ€“S batteries. Chemical Engineering Journal, 2022, 446, 137141.	12.7	23

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19	Nanoconfined vanadium nitride in 3D porous reduced graphene oxide microspheres as high-capacity cathode for aqueous zinc-ion batteries. Chemical Engineering Journal, 2022, 446, 137266.	12.7	22
20	Macroporous vanadium dioxideâ€“reduced graphene oxide microspheres: Cathode material with enhanced electrochemical kinetics for aqueous zinc-ion batteries. Applied Surface Science, 2022, 599, 153890.	6.1	9
21	Potassium-ion storage mechanism of MoS2-WS2-C microspheres and their excellent electrochemical properties. Chemical Engineering Journal, 2021, 408, 127278.	12.7	37
22	General strategy for yolk-shell nanospheres with tunable compositions by applying hollow carbon nanospheres. Chemical Engineering Journal, 2021, 406, 126840.	12.7	9
23	A General Solution to Mitigate Water Poisoning of Oxide Chemiresistors: Bilayer Sensors with Tb₄O₇ Overlayer. Advanced Functional Materials, 2021, 31, 2007895.	14.9	33
24	Rational synthesis of uniform yolkâ€“shell Niâ€“Fe bimetallic sulfide nanoflakes@porous carbon nanospheres as advanced anodes for high-performance potassium-/sodium-ion batteries. Chemical Engineering Journal, 2021, 417, 127963.	12.7	32
25	Ultrasonic spray pyrolysis for air-stable copper particles and their conductive films. Acta Materialia, 2021, 206, 116569.	7.9	16
26	MOF-Derived CoSe2@N-Doped Carbon Matrix Confined in Hollow Mesoporous Carbon Nanospheres as High-Performance Anodes for Potassium-Ion Batteries. Nano-Micro Letters, 2021, 13, 9.	27.0	83
27	Freestanding interlayers for Liâ€“S batteries: design and synthesis of hierarchically porous N-doped C nanofibers comprising vanadium nitride quantum dots and MOF-derived hollow N-doped C nanocages. Journal of Materials Chemistry A, 2021, 9, 11651-11664.	10.3	45
28	Recent Advances in Heterostructured Anode Materials with Multiple Anions for Advanced Alkaliâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2003058.	19.5	60
29	Highly Selective Detection of Benzene and Discrimination of Volatile Aromatic Compounds Using Oxide Chemiresistors with Tunable Rhâ€TiO₂ Catalytic Overlayers. Advanced Science, 2021, 8, 2004078.	11.2	56
30	Remote Control of Timeâ€Regulated Stretching of Ligandâ€Presenting Nanocoils In Situ Regulates the Cyclic Adhesion and Differentiation of Stem Cells. Advanced Materials, 2021, 33, e2008353.	21.0	31
31	Magnetic Nanocoils: Remote Control of Timeâ€Regulated Stretching of Ligandâ€Presenting Nanocoils In Situ Regulates the Cyclic Adhesion and Differentiation of Stem Cells (Adv. Mater. 11/2021). Advanced Materials, 2021, 33, 2170084.	21.0	0
32	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.	6.1	6
33	Initial investigation of bimetal hydroxysulfide as a new anode material for efficient sodium-ion storage. Chemical Engineering Journal, 2021, 410, 128401.	12.7	6
34	Synthesis of yolkâ€shellâ€structured iron monosulfideâ€carbon microspheres and understanding of their conversion reaction for potassiumâ€ion storage. International Journal of Energy Research, 2021, 45, 14910-14919.	4.5	11
35	Synthesis of threeâ€dimensional Co/ CoO /Nâ€doped carbon nanotube composite for zinc air battery. International Journal of Energy Research, 2021, 45, 16091-16101.	4.5	4
36	Yolkâ€Shellâ€Structured Nanospheres with Goat Pupilâ€Like Sâ€Doped SnSe Yolk and Hollow Carbonâ€Shell Configuration as Anode Material for Sodiumâ€Ion Storage. Small Methods, 2021, 5, e2100302.	8.6	17

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37	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. Advanced Functional Materials, 2021, 31, 2103409.	14.9	19
38	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.	12.7	13
39	Novel synthesis method of cobalt hydroxycarbonate hydrateâ€reduced graphene oxide composite microspheres for lithiumâ€ion battery anode. International Journal of Energy Research, 2021, 45, 20302.	4.5	1
40	Nâ€doped <scp> carbonâ€coated CoSe ₂ </scp> nanocrystals anchored on twoâ€dimensional <scp>MXene</scp> nanosheets for efficient electrochemical sodiumâ€and <scp>potassiumâ€ion</scp> storage. International Journal of Energy Research, 2021, 45, 17738-17748.	4.5	35
41	Electrochemical Effect of Cokesâ€Derived Activated Carbon with Partially Graphitic Structure for Hybrid Supercapacitors. ChemElectroChem, 2021, 8, 3621-3628.	3.4	2
42	Boosting the Electrochemical Performance of V₂O₃ by Anchoring on Carbon Nanotube Microspheres with Macrovoids for Ultrafast and Longâ€Life Aqueous Zincâ€ion Batteries. Small Methods, 2021, 5, e2100578.	8.6	25
43	Metalâ€organic frameworks derived <scp> FeSe ₂ </scp> @C nanorods interconnected by Nâ€doped graphene nanosheets as advanced anode materials for Naâ€ion batteries. International Journal of Energy Research, 2021, 45, 20909-20920.	4.5	20
44	Magnetic Control and Realâ€Time Monitoring of Stem Cell Differentiation by the Ligand Nanoassembly. Small, 2021, 17, e2102892.	10.0	22
45	Hybrid Structure of TiO2-Graphitic Carbon as a Support of Pt Nanoparticles for Catalyzing Oxygen Reduction Reaction. Catalysts, 2021, 11, 1196.	3.5	4
46	Exploration of cobalt seleniteâ€“carbon composite porous nanofibers as anode for sodium-ion batteries and unveiling their conversion reaction mechanism. Journal of Materials Science and Technology, 2021, 89, 24-35.	10.7	18
47	New strategy to synthesize optimal cobalt diselenide@hollow mesoporous carbon nanospheres for highly efficient hydrogen evolution reaction. Chemical Engineering Journal, 2021, 424, 130341.	12.7	20
48	Hierarchically porous nanofibers comprising multiple coreâ€“shell Co3O4@graphitic carbon nanoparticles grafted within N-doped CNTs as functional interlayers for excellent Liâ€“S batteries. Chemical Engineering Journal, 2021, 426, 130805.	12.7	49
49	Electrospun MOF-based ZnSe nanocrystals confined in N-doped mesoporous carbon fibers as anode materials for potassium ion batteries with long-term cycling stability. Chemical Engineering Journal, 2021, 425, 131651.	12.7	35
50	One-dimensional porous nanostructure composed of few-layered MoSe2 nanosheets and highly densified-entangled-N-doped CNTs as anodes for Na ion batteries. Chemical Engineering Journal, 2021, 425, 129051.	12.7	25
51	Macroporous microspheres consisting of thickness-controlled bamboo-like CNTs and flower-like Co₃O₄ nanoparticles as highly efficient bifunctional oxygen electrocatalysts for Znâ€“air batteries. Journal of Materials Chemistry A, 2021, 9, 25160-25167.	10.3	13
52	Nitrogen-Doped and Carbon-Coated Activated Carbon as a Conductivity Additive-Free Electrode for Supercapacitors. Energies, 2021, 14, 7629.	3.1	0
53	Metal-Ion-Intercalated MXene Nanosheet Films for NH₃ Gas Detection. ACS Applied Nano Materials, 2021, 4, 14249-14257.	5.0	26
54	Scalable green synthesis of hierarchically porous carbon microspheres by spray pyrolysis for high-performance supercapacitors. Chemical Engineering Journal, 2020, 382, 122805.	12.7	40

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55	N-doped carbon coated Ni-Mo sulfide tubular structure decorated with nanobubbles for enhanced sodium storage performance. Chemical Engineering Journal, 2020, 383, 123112.	12.7	16
56	Preparation of activated carbon decorated with carbon dots and its electrochemical performance. Journal of Industrial and Engineering Chemistry, 2020, 82, 383-389.	5.8	16
57	Design of house centipede-like MoCâ€“Mo2C nanorods grafted with N-doped carbon nanotubes as bifunctional catalysts for high-performance Liâ€“O2 batteries. Chemical Engineering Journal, 2020, 384, 123344.	12.7	27
58	Structural combination of polar hollow microspheres and hierarchical N-doped carbon nanotubes for high-performance Liâ€“S batteries. Nanoscale, 2020, 12, 2142-2153.	5.6	21
59	Giant-miscanthus-derived activated carbon and its application to lithium sulfur batteries. Carbon Letters, 2020, 30, 477-484.	5.9	10
60	Hierarchical Tubularâ€Structured MoSe₂ Nanosheets/Nâ€Doped Carbon Nanocomposite with Enhanced Sodium Storage Properties. ChemSusChem, 2020, 13, 1546-1555.	6.8	45
61	Towards an efficient anode material for Li-ion batteries: understanding the conversion mechanism of nickel hydroxy chloride with Li- ions. Journal of Materials Chemistry A, 2020, 8, 1939-1946.	10.3	34
62	Uniquely structured quaternary metal oxide polyhedra as efficient anode materials for lithium-ion batteries. Applied Surface Science, 2020, 509, 144918.	6.1	5
63	Biotransformation of methane into methanol by methanotrophs immobilized on coconut coir. Bioresource Technology, 2020, 297, 122433.	9.6	50
64	Three-dimensional porous pitch-derived carbon coated Si nanoparticles-CNT composite microsphere with superior electrochemical performance for lithium ion batteries. Journal of Alloys and Compounds, 2020, 821, 153224.	5.5	38
65	Encapsulation of Se into Hierarchically Porous Carbon Microspheres with Optimized Pore Structure for Advanced Naâ€“Se and Kâ€“Se Batteries. ACS Nano, 2020, 14, 13203-13216.	14.6	86
66	Conversion reaction mechanism of cobalt telluride-carbon composite microspheres synthesized by spray pyrolysis process for K-ion storage. Applied Surface Science, 2020, 529, 147140.	6.1	37
67	Porous SnO₂/C Nanofiber Anodes and LiFePO₄/C Nanofiber Cathodes with a Wrinkle Structure for Stretchable Lithium Polymer Batteries with High Electrochemical Performance. Advanced Science, 2020, 7, 2001358.	11.2	22
68	Conversion Reaction Mechanism of Ultrafine Bimetallic Coâ€Fe Selenides Embedded in Hollow Mesoporous Carbon Nanospheres and Their Excellent Kâ€Ion Storage Performance. Small, 2020, 16, e2002345.	10.0	54
69	Amorphous Cobalt Selenite Nanoparticles Decorated on a Graphitic Carbon Hollow Shell for High-Rate and Ultralong Cycle Life Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17707-17717.	6.7	15
70	Photo-immobilization of pseudozwitterionic polymers with balanced electrical charge for developing anti-coagulation surfaces. Journal of Industrial and Engineering Chemistry, 2020, 91, 263-272.	5.8	2
71	Efficient strategy for hollow carbon nanospheres embedded with nickel hydroxide nanocrystals and their excellent lithium-ion storage performances. Scripta Materialia, 2020, 188, 112-117.	5.2	10
72	Conversion Reaction Mechanism for Yolkâ€Shellâ€Structured Iron Tellurideâ€C Nanospheres and Exploration of Their Electrochemical Performance as an Anode Material for Potassiumâ€Ion Batteries. Small Methods, 2020, 4, 2000556.	8.6	38

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73	Sodiumâ€Ion Batteries: Golden Bristlegrassâ€Like Hierarchical Graphene Nanofibers Entangled with Nâ€Doped CNTs Containing CoSe₂ Nanocrystals at Each Node as Anodes for Highâ€Rate Sodiumâ€Ion Batteries (Small 38/2020). Small, 2020, 16, 2070207.	10.0	1
74	Golden Bristlegrassâ€Like Hierarchical Graphene Nanofibers Entangled with Nâ€Doped CNTs Containing CoSe₂ Nanocrystals at Each Node as Anodes for Highâ€Rate Sodiumâ€Ion Batteries. Small, 2020, 16, e2003391.	10.0	58
75	Sodium-ion storage performances of MoS2 nanocrystals coated with N-doped carbon synthesized by flame spray pyrolysis. Applied Surface Science, 2020, 523, 146470.	6.1	11
76	The conversion reaction mechanism of bimetallic Niâ€“Fe hydroxycarbonate and its encapsulation in carbon nanospheres for achieving excellent Li-ion storage performance. Journal of Materials Chemistry A, 2020, 8, 12124-12133.	10.3	27
77	Enhanced Li-ion storage performance of novel tube-in-tube structured nanofibers with hollow metal oxide nanospheres covered with a graphitic carbon layer. Nanoscale, 2020, 12, 8404-8414.	5.6	9
78	Hierarchically Wellâ€Developed Porous Graphene Nanofibers Comprising Nâ€Doped Graphitic Câ€Coated Cobalt Oxide Hollow Nanospheres As Anodes for Highâ€Rate Liâ€Ion Batteries. Small, 2020, 16, e2002213.	10.0	46
79	Investigation of cobalt hydroxysulfide as a new anode material for Li-ion batteries and its conversion reaction mechanism with Li-ions. Chemical Engineering Journal, 2020, 401, 126121.	12.7	22
80	Fibrous network of highly integrated carbon nanotubes/MoO3 composite bundles anchored with MoO3 nanoplates for superior lithium ion battery anodes. Journal of Industrial and Engineering Chemistry, 2020, 83, 438-448.	5.8	33
81	Prussian blue analogue nanocubes with hollow interior and porous walls encapsulated within reduced graphene oxide nanosheets and their sodium-ion storage performances. Chemical Engineering Journal, 2020, 393, 124606.	12.7	31
82	Lithium ion storage mechanism exploration of copper selenite as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 827, 154309.	5.5	20
83	A New Strategy for Detecting Plant Hormone Ethylene Using Oxide Semiconductor Chemiresistors: Exceptional Gas Selectivity and Response Tailored by Nanoscale Cr₂O₃ Catalytic Overlayer. Advanced Science, 2020, 7, 1903093.	11.2	49
84	Methylbenzene sensors using Ti-doped NiO multiroom spheres: Versatile tunability on selectivity, response, sensitivity, and detection limit. Sensors and Actuators B: Chemical, 2020, 308, 127730.	7.8	28
85	Porous nanofibers comprised of hollow SnO2 nanoplate building blocks for high-performance lithium ion battery anode. Materials Characterization, 2020, 161, 110099.	4.4	15
86	Electrochemical reaction mechanism of amorphous iron selenite with ultrahigh rate and excellent cyclic stability performance as new anode material for lithium-ion batteries. Chemical Engineering Journal, 2020, 389, 124350.	12.7	42
87	Carbon-templated strategy toward the synthesis of dense and yolk-shell multi-component transition metal oxide cathode microspheres for high-performance Li ion batteries. Journal of Power Sources, 2020, 461, 228115.	7.8	13
88	Amorphous iron oxideâ€“selenite composite microspheres with a yolkâ€“shell structure as highly efficient anode materials for lithium-ion batteries. Nanoscale, 2020, 12, 10790-10798.	5.6	26
89	Metal Oxide Gas Sensors with Au Nanocluster Catalytic Overlayer: Toward Tuning Gas Selectivity and Response Using a Novel Bilayer Sensor Design. ACS Applied Materials & Interfaces, 2019, 11, 32169-32177.	8.0	83
90	Advances in the synthesis and design of nanostructured materials by aerosol spray processes for efficient energy storage. Nanoscale, 2019, 11, 19012-19057.	5.6	30

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91	Recent Advances in Aerosolâ€Assisted Spray Processes for the Design and Fabrication of Nanostructured Metal Chalcogenides for Sodiumâ€ion Batteries. Chemistry - an Asian Journal, 2019, 14, 3127-3140.	3.3	19
92	Aerosol-assisted synthesis of porous and hollow carbon-carbon nanotube composite microspheres as sulfur host materials for high-performance Li-S batteries. Applied Surface Science, 2019, 495, 143637.	6.1	21
93	Yolkâ€“shell-structured microspheres composed of N-doped-carbon-coated NiMoO₄ hollow nanospheres as superior performance anode materials for lithium-ion batteries. Nanoscale, 2019, 11, 631-638.	5.6	41
94	Uniquely structured composite microspheres of metal sulfides and carbon with cubic nanorooms for highly efficient anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 2636-2645.	10.3	50
95	Unique structured microspheres with multishells comprising graphitic carbon-coated Fe₃O₄ hollow nanopowders as anode materials for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2019, 7, 15766-15773.	10.3	61
96	Synthesis of carbonaceous/carbon-free nanofibers consisted of Co3V2O8 nanocrystals for lithium-ion battery anode with ultralong cycle life. Electrochimica Acta, 2019, 313, 48-58.	5.2	26
97	A MOF-mediated strategy for constructing human backbone-like CoMoS₃@N-doped carbon nanostructures with multiple voids as a superior anode for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 13751-13761.	10.3	85
98	Pitch-derived yolk-shell-structured carbon microspheres as efficient sulfur host materials and their application as cathode material for Liâ€“S batteries. Chemical Engineering Journal, 2019, 373, 382-392.	12.7	41
99	Superior lithium-ion storage performances of SnO2 powders consisting of hollow nanoplates. Journal of Alloys and Compounds, 2019, 797, 380-389.	5.5	10
100	Yolkâ€“shell-structured manganese oxide/nitride composite powders comprising cobalt-nanoparticle-embedded nitrogen-doped carbon nanotubes as cathode catalysts for long-life-cycle lithiumâ€“oxygen batteries. Chemical Engineering Journal, 2019, 373, 86-94.	12.7	22
101	Uniquely structured Sb nanoparticle-embedded carbon/reduced graphene oxide composite shell with empty voids for high performance sodium-ion storage. Chemical Engineering Journal, 2019, 373, 227-237.	12.7	39
102	Trimodally porous N-doped carbon frameworks with an interconnected pore structure as selenium immobilizers for high-performance Li-Se batteries. Materials Characterization, 2019, 151, 590-601.	4.4	16
103	New synthesis strategy for hollow NiO nanofibers with interstitial nanovoids prepared via electrospinning using camphene for anodes of lithium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 77, 76-82.	5.8	26
104	Synthesis Process of CoSeO₃ Microspheres for Unordinary Liâ€ion Storage Performances and Mechanism of Their Conversion Reaction with Li ions. Small, 2019, 15, e1901320.	10.0	49
105	Multi-channel-contained few-layered MoSe2 nanosheet/N-doped carbon hybrid nanofibers prepared using diethylenetriamine as anodes for high-performance sodium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 75, 100-107.	5.8	39
106	Mesoporous CoSe2 nanoclusters threaded with nitrogen-doped carbon nanotubes for high-performance sodium-ion battery anodes. Chemical Engineering Journal, 2019, 370, 1008-1018.	12.7	131
107	Pitch-derived carbon coated SnO2â€“CoO yolkâ€“shell microspheres with excellent long-term cycling and rate performances as anode materials for lithium-ion batteries. Chemical Engineering Journal, 2019, 369, 726-735.	12.7	40
108	Highly integrated and interconnected CNT hybrid nanofibers decorated with Î±-iron oxide as freestanding anodes for flexible lithium polymer batteries. Journal of Materials Chemistry A, 2019, 7, 12480-12488.	10.3	19

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109	RGO/sAC composites as electrode materials for supercapacitors to enhance electrochemical performance. Journal of Physics and Chemistry of Solids, 2019, 131, 69-78.	4.0	7
110	Hierarchical yolk-shell CNT-(NiCo)O/C microspheres prepared by one-pot spray pyrolysis as anodes in lithium-ion batteries. Chemical Engineering Journal, 2019, 368, 438-447.	12.7	28
111	The effect of ILs as co-salts in electrolytes for high voltage supercapacitors. Scientific Reports, 2019, 9, 1180.	3.3	22
112	Carbon microspheres with micro- and mesopores synthesized via spray pyrolysis for high-energy-density, electrical-double-layer capacitors. Chemical Engineering Journal, 2019, 365, 193-200.	12.7	33
113	Investigation of Binary Metal (Ni, Co) Selenite as Liâ€Ion Battery Anode Materials and Their Conversion Reaction Mechanism with Li Ions. Small, 2019, 15, e1905289.	10.0	51
114	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. Applied Surface Science, 2019, 464, 597-605.	6.1	12
115	Nickel vanadate microspheres with numerous nanocavities synthesized by spray drying process as an anode material for Li-ion batteries. Journal of Alloys and Compounds, 2019, 780, 326-333.	5.5	24
116	A Saltâ€Templated Strategy toward Hollow Iron Selenidesâ€Graphitic Carbon Composite Microspheres with Interconnected Multicavities as Highâ€Performance Anode Materials for Sodiumâ€Ion Batteries. Small, 2019, 15, e1803043.	10.0	108
117	SiO2 microparticles with carbon nanotube-derived mesopores as an efficient support for enzyme immobilization. Chemical Engineering Journal, 2019, 359, 1252-1264.	12.7	154
118	Quorum sensing inhibitors as antipathogens: biotechnological applications. Biotechnology Advances, 2019, 37, 68-90.	11.7	215
119	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. Carbon, 2019, 144, 591-600.	10.3	24
120	Coral-Like Yolkâ€“Shell-Structured Nickel Oxide/Carbon Composite Microspheres for High-Performance Li-Ion Storage Anodes. Nano-Micro Letters, 2019, 11, 3.	27.0	54
121	Mesoporous Nb2O5 microspheres with filled and yolk-shell structure as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 776, 722-730.	5.5	22
122	Germanium Nanoparticle-Dispersed Reduced Graphene Oxide Balls Synthesized by Spray Pyrolysis for Li-Ion Battery Anode. Journal of the Korean Ceramic Society, 2019, 56, 65-70.	2.3	9
123	Metal-Organic-Framework-Derived N-Doped Hierarchically Porous Carbon Polyhedrons Anchored on Crumpled Graphene Balls as Efficient Selenium Hosts for High-Performance Lithiumâ€“Selenium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 16531-16540.	8.0	64
124	Superior electrochemical properties of micron-sized aggregates of (Co0.5Fe0.5)3O4 hollow nanospheres and graphitic carbon. Chemical Engineering Journal, 2018, 346, 351-360.	12.7	5
125	Synthesis of hierarchical structured Fe2O3 rod clusters with numerous empty nanovoids via the Kirkendall effect and their electrochemical properties for lithium-ion storage. Journal of Materials Chemistry A, 2018, 6, 8462-8469.	10.3	31
126	Scalable synthesis of NiMoO4 microspheres with numerous empty nanovoids as an advanced anode material for Li-ion batteries. Journal of Power Sources, 2018, 379, 278-287.	7.8	64

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127	Mesoporous graphitic carbon microspheres with a controlled amount of amorphous carbon as an efficient Se host material for Liâ€“Se batteries. Journal of Materials Chemistry A, 2018, 6, 4152-4160.	10.3	34
128	Design and Synthesis of Spherical Multicomponent Aggregates Composed of Coreâ€“Shell, Yolkâ€“Shell, and Hollow Nanospheres and Their Lithiumâ€ion Storage Performances. Small, 2018, 14, e1703957.	10.0	25
129	Repeated batch methanol production from a simulated biogas mixture using immobilized Methylocystis bryophila. Energy, 2018, 145, 477-485.	8.8	42
130	Synthesis of cross-linked protein-metal hybrid nanoflowers and its application in repeated batch decolorization of synthetic dyes. Journal of Hazardous Materials, 2018, 347, 442-450.	12.4	145
131	MOF-Templated N-Doped Carbon-Coated CoSe₂ Nanorods Supported on Porous CNT Microspheres with Excellent Sodium-Ion Storage and Electrocatalytic Properties. ACS Applied Materials & Interfaces, 2018, 10, 17203-17213.	8.0	164
132	Dual Role of Multiroom-Structured Sn-Doped NiO Microspheres for Ultrasensitive and Highly Selective Detection of Xylene. ACS Applied Materials & Interfaces, 2018, 10, 16605-16612.	8.0	96
133	Design and synthesis of tube-in-tube structured NiO nanobelts with superior electrochemical properties for lithium-ion storage. Chemical Engineering Journal, 2018, 347, 889-899.	12.7	57
134	Multiroom-structured multicomponent metal selenideâ€“graphitic carbonâ€“carbon nanotube hybrid microspheres as efficient anode materials for sodium-ion batteries. Nanoscale, 2018, 10, 8125-8132.	5.6	35
135	Iron diselenide combined with hollow graphitic carbon nanospheres as a high-performance anode material for sodium-ion batteries. Chemical Engineering Journal, 2018, 339, 97-107.	12.7	48
136	Electrochemical properties of multicomponent oxide and selenide microspheres containing Co and Mo components with several tens of vacant nanorooms synthesized by spray pyrolysis. Chemical Engineering Journal, 2018, 333, 665-677.	12.7	30
137	Superior lithium-ion storage performances of carbonaceous microspheres with high electrical conductivity and uniform distribution of Fe and TiO ultrafine nanocrystals for Li-S batteries. Carbon, 2018, 126, 394-403.	10.3	13
138	An artificial synthetic pathway for acetoin, 2,3-butanediol, and 2-butanol production from ethanol using cell free multi-enzyme catalysis. Green Chemistry, 2018, 20, 230-242.	9.0	58
139	Design and synthesis of macroporous (Mn1/3Co2/3)O-carbon nanotubes composite microspheres as efficient catalysts for rechargeable Li-O2 batteries. Carbon, 2018, 128, 125-133.	10.3	24
140	Yolkâ€“Shell Structured Assembly of Bambooâ€Like Nitrogenâ€Doped Carbon Nanotubes Embedded with Co Nanocrystals and Their Application as Cathode Material for Liâ€“S Batteries. Advanced Functional Materials, 2018, 28, 1705264.	14.9	122
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