Qiyao Yu

List of Publications by Year in descending order

43 papers	2,095 citations	270111 25 h-index	286692 43 g-index
43 all docs	43 docs citations	43 times ranked	2339 citing authors

#	Article	IF	Citations
1	Heterostructured CoS2/CuCo2S4@N-doped carbon hollow sphere for potassium-ion batteries. Journal of Colloid and Interface Science, 2022, 608, 275-283.	5.0	52
2	Schottky junction and multiheterostructure synergistically enhance rate performance and cycling stability. Chemical Engineering Journal, 2022, 430, 132994.	6.6	8
3	Unraveling the Intercorrelation Between Micro/Mesopores and K Migration Behavior in Hard Carbon. Small, 2022, 18, e2107113.	5.2	65
4	Interconnected 3D carbon network with enhanced reaction kinetics and architecture stability for advanced potassium-ion hybrid capacitors. Physical Chemistry Chemical Physics, 2022, 24, 3440-3450.	1.3	6
5	Heteroatom-doped carbon anode materials for potassium-ion batteries: From mechanism, synthesis to electrochemical performance. APL Materials, 2022, 10, .	2.2	8
6	Fundamental Understanding and Research Progress on the Interfacial Behaviors for Potassiumâ€ion Battery Anode. Advanced Science, 2022, 9, e2200683.	5.6	53
7	Tuning vacancy and size of metallic VCx quantum dots for capacitive potassium-ion batteries. Chemical Engineering Journal, 2021, 404, 126315.	6.6	11
8	Amorphous carbon/graphite coupled polyhedral microframe with fast electronic channel and enhanced ion storage for potassium ion batteries. Energy Storage Materials, 2021, 38, 329-337.	9.5	91
9	Amorphous CoS1.4 ultrathin nanosheets/amorphous N-doped carbon nanobox: A dual-amorphous confined structure for superior potassium storage. Journal of Power Sources, 2021, 506, 230117.	4.0	11
10	Construction of SnS2/SnO2 heterostructures with enhanced potassium storage performance. Journal of Materials Science and Technology, 2020, 55, 167-172.	5.6	57
11	Open ZnSe/C nanocages: multi-hierarchy stress-buffer for boosting cycling stability in potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 779-788.	5.2	73
12	Oxygen defect chemistry for the reversible transformation of titanates for sizeable potassium storage. Journal of Materials Chemistry A, 2020, 8, 17550-17557.	5.2	5
13	Amorphous cobalt sulfide/N-doped carbon core/shell nanoparticles as an anode material for potassium-ion storage. Journal of Materials Science, 2020, 55, 15213-15221.	1.7	12
14	Flowerlike Tin Diselenide Hexagonal Nanosheets for High-Performance Lithium-Ion Batteries. Frontiers in Chemistry, 2020, 8, 590.	1.8	8
15	Yolkâ€“shell structured FeS/MoS₂@nitrogen-doped carbon nanocubes with sufficient internal void space as an ultrastable anode for potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 23983-23993.	5.2	49
16	Marcasite-FeS2@carbon nanodots anchored on 3D cell-like graphenic matrix for high-rate and ultrastable potassium ion storage. Journal of Power Sources, 2020, 469, 228429.	4.0	39
17	Hollow Co0.85Se cubes encapsulated in graphene for enhanced potassium storage. Journal of Electroanalytical Chemistry, 2020, 864, 114100.	1.9	22
18	Fe-induced carbon nanotube/amorphous carbon polyhedral frame for superior potassium storage. Nanotechnology, 2020, 31, 435406.	1.3	4

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19	N-doped carbon/ultrathin 2D metallic cobalt selenide core/sheath flexible framework bridged by chemical bonds for high-performance potassium storage. Chemical Engineering Journal, 2020, 388, 124396.	6.6	94
20	A novel graphene-wrapped corals-like NiSe2 for ultrahigh-capacity potassium ion storage. Carbon, 2020, 161, 834-841.	5.4	44
21	Flexible N doped carbon/bubble-like MoS2 core/sheath framework: Buffering volume expansion for potassium ion batteries. Journal of Colloid and Interface Science, 2020, 566, 427-433.	5.0	78
22	K0.6CoO2-xNx porous nanoframe: A co-enhanced ionic and electronic transmission for potassium ion batteries. Chemical Engineering Journal, 2020, 396, 125218.	6.6	14
23	CoSe₂/N-doped carbon porous nanoframe as an anode material for potassium-ion storage. Nanotechnology, 2020, 31, 395403.	1.3	10
24	Sn nanoparticles anchored on N doped porous carbon as an anode for potassium ion batteries. Materials Letters, 2019, 256, 126613.	1.3	30
25	High-throughput fabrication of 3D N-doped graphenic framework coupled with Fe3C@porous graphite carbon for ultrastable potassium ion storage. Energy Storage Materials, 2019, 22, 185-193.	9.5	91
26	The multi-yolk/shell structure of FeP@foam-like graphenic scaffolds: strong Pâ€“C bonds and electrolyte- and binder-optimization boost potassium storage. Journal of Materials Chemistry A, 2019, 7, 15673-15682.	5.2	69
27	Tuning defect and hollow size of metallic KxCoF3 for ultrastable potassium storage. Energy Storage Materials, 2019, 21, 196-202.	9.5	16
28	Carbon-encapsulated ultrathin MoS₂ nanosheets epitaxially grown on porous metallic TiNb₂O₆ microspheres with unsaturated oxygen atoms for superior potassium storage. Journal of Materials Chemistry A, 2019, 7, 5760-5768.	5.2	54
29	Strong (001) facet-induced growth of multi-hierarchical tremella-like Sn-doped V₂O₅ for high-performance potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 25993-26001.	5.2	18
30	In situ assembly of 2D cobalt sulfide on stainless steel mesh as a binder-free anode for sodium ion batteries. Materials Letters, 2019, 236, 312-315.	1.3	17
31	CoS/N-doped carbon core/shell nanocrystals as an anode material for potassium-ion storage. Journal of Solid State Electrochemistry, 2019, 23, 27-32.	1.2	25
32	Scalable synthesis of VN quantum dots encapsulated in ultralarge pillared N-doped mesoporous carbon microsheets for superior potassium storage. Energy Storage Materials, 2019, 18, 43-50.	9.5	69
33	Ultrafast synthesis of amorphous VO_xembedded into 3D strutted amorphous carbon frameworksâ€“short-range order in dual-amorphous composites boosts lithium storage. Journal of Materials Chemistry A, 2018, 6, 7053-7061.	5.2	13
34	Thickness-control of ultrathin bimetallic Feâ€“Mo selenide@N-doped carbon core/shell â€œnano-crispsâ€• for high-performance potassium-ion batteries. Applied Materials Today, 2018, 13, 344-351.	2.3	69
35	Multirole organic-induced scalable synthesis of a mesoporous MoS2-monolayer/carbon composite for high-performance lithium and potassium storage. Journal of Materials Chemistry A, 2018, 6, 11147-11153.	5.2	77
36	Role of spontaneous strains on the biphasic nature of partial B-site disorder double perovskite La2NiMnO6. APL Materials, 2018, 6, 066102.	2.2	24

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37	Metallic Octahedral CoSe₂ Threaded by Nâ€Doped Carbon Nanotubes: A Flexible Framework for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Science, 2018, 5, 1800782.	5.6	198
38	Zero-strain K_{0.6}Mn₁F_{2.7} hollow nanocubes for ultrastable potassium ion storage. Energy and Environmental Science, 2018, 11, 3033-3042.	15.6	87
39	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. Journal of Alloys and Compounds, 2018, 766, 1086-1091.	2.8	47
40	Bambooâ€Like Hollow Tubes with MoS₂/Nâ€Dopedâ€C Interfaces Boost Potassiumâ€Ion Storage. Advanced Functional Materials, 2018, 28, 1803409.	7.8	263
41	Novel Ni@Co 3 O 4 Web-like Nanofiber Arrays as Highly Effective Cathodes for Rechargeable Li-O 2 Batteries. Electrochimica Acta, 2016, 220, 654-663.	2.6	15
42	Photoelectrochemical oxidation of glucose for sensing and fuel cell applications. Chemical Communications, 2013, 49, 8632.	2.2	38
43	Copper oxide nanoleaves decorated multi-walled carbon nanotube as platform for glucose sensing. Analytical Methods, 2012, 4, 1924.	1.3	61