

Teng Zhai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8471996/publications.pdf>

Version: 2024-02-01

79
papers

15,316
citations

34076

52
h-index

69214

77
g-index

81
all docs

81
docs citations

81
times ranked

16051
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating the π - π interaction with shortened electron tunneling distance for efficient charge storage. <i>Energy Storage Materials</i> , 2022, 48, 403-411.	9.5	13
2	Manganese-based layered oxides for electrochemical energy storage: a review of degradation mechanisms and engineering strategies at the atomic level. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19231-19253.	5.2	14
3	Harnessing the Defects at Hetero-Interface of Transition Metal Compounds for Advanced Charge Storage: A Review. <i>Small Structures</i> , 2022, 3, .	6.9	11
4	Boosting Energy Storage via Confining Soluble Redox Species onto Solid-Liquid Interface. <i>Advanced Energy Materials</i> , 2021, 11, 2003599.	10.2	35
5	Soluble Redox Species: Boosting Energy Storage via Confining Soluble Redox Species onto Solid-Liquid Interface (<i>Adv. Energy Mater.</i> 8/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170033.	10.2	1
6	Recent advances in coupling carbon-based electrode-Redox electrolyte system. <i>Materials Research Bulletin</i> , 2021, 139, 111249.	2.7	9
7	Coupling electrode-redox electrolyte within carbon nanotube arrays for supercapacitors with suppressed self-discharge. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00284.	1.7	3
8	Novel Gram-Scale Synthesis of Carbon Nano-Onions from Heavy Oil for Supercapacitors. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101208.	1.9	9
9	Editorial: Three-Dimensional Carbon Architectures for Energy Conversion and Storage. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	0
10	Synergistic Interface-Assisted Electrode-Electrolyte Coupling Toward Advanced Charge Storage. <i>Advanced Materials</i> , 2020, 32, e2005344.	11.1	64
11	Two novel fan-shaped trinuclear Pt(II) complexes act as G-quadruplex binders and telomerase inhibitors. <i>Dalton Transactions</i> , 2020, 49, 9322-9329.	1.6	9
12	Three-Dimensional Carbon-Supported MoS ₂ With Sulfur Defects as Oxygen Electrodes for Li-O ₂ Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	9
13	Oxygen-Deficient Homo-Interface toward Exciting Boost of Pseudocapacitance. <i>Advanced Functional Materials</i> , 2020, 30, 1909546.	7.8	54
14	Birnessite Nanosheet Arrays with High K Content as a High-Capacity and Ultrastable Cathode for K-ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900060.	11.1	183
15	Carbon shelled porous SnO ₂ - γ nanosheet arrays as advanced anodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2018, 13, 303-311.	9.5	108
16	Achieving Insertion-Like Capacity at Ultrahigh Rate via Tunable Surface Pseudocapacitance. <i>Advanced Materials</i> , 2018, 30, e1706640.	11.1	202
17	Boosted crystalline/amorphous Fe ₂ O ₃ - γ core/shell heterostructure for flexible solid-state pseudocapacitors in large scale. <i>Nano Energy</i> , 2018, 45, 390-397.	8.2	233
18	Multiscale porous graphene oxide network with high packing density for asymmetric supercapacitors. <i>Journal of Materials Research</i> , 2018, 33, 1155-1166.	1.2	4

#	ARTICLE	IF	CITATIONS
19	Yolkâ€“Shell NiS ₂ Nanoparticleâ€“Embedded Carbon Fibers for Flexible Fiberâ€“Shaped Sodium Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1800054.	10.2	162
20	Highly efficient sol-gel synthesis for ZnS@N, S co-doped carbon nanosheets with embedded heterostructure for sodium ion batteries. <i>Journal of Power Sources</i> , 2018, 402, 340-344.	4.0	42
21	Phosphate Ion Functionalized Co ₃ O ₄ Ultrathin Nanosheets with Greatly Improved Surface Reactivity for High Performance Pseudocapacitors. <i>Advanced Materials</i> , 2017, 29, 1604167.	11.1	540
22	Dual support ensuring high-energy supercapacitors via high-performance NiCo ₂ S ₄ @Fe ₂ O ₃ anode and working potential enlarged MnO ₂ cathode. <i>Journal of Power Sources</i> , 2017, 341, 427-434.	4.0	116
23	Functional Nanomaterials for Energy Conversion and Storage. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-1.	1.5	2
24	Acid Treatment Enables Suppression of Electronâ€“Hole Recombination in Hematite for Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3403-3407.	7.2	132
25	Acid Treatment Enables Suppression of Electronâ€“Hole Recombination in Hematite for Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2016, 128, 3464-3468.	1.6	27
26	MnO ₂ nanomaterials for flexible supercapacitors: performance enhancement via intrinsic and extrinsic modification. <i>Nanoscale Horizons</i> , 2016, 1, 109-124.	4.1	82
27	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15792-15823.	5.2	135
28	Effects of the size and morphology of zinc oxide nanoparticles on the germination of Chinese cabbage seeds. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10452-10462.	2.7	82
29	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. <i>Nano Letters</i> , 2015, 15, 3189-3194.	4.5	118
30	Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. <i>Nano Letters</i> , 2015, 15, 7051-7057.	4.5	57
31	Hierarchical Fe ₃ O ₄ @Fe ₂ O ₃ Coreâ€“Shell Nanorod Arrays as High-Performance Anodes for Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27518-27525.	4.0	256
32	Investigation of hematite nanorodâ€“nanoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. <i>Nano Energy</i> , 2015, 12, 169-177.	8.2	83
33	Scalable self-growth of Ni@NiO core-shell electrode with ultrahigh capacitance and super-long cyclic stability for supercapacitors. <i>NPG Asia Materials</i> , 2014, 6, e129-e129.	3.8	284
34	Solidâ€“State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. <i>Advanced Materials</i> , 2014, 26, 2676-2682.	11.1	660
35	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10825-10829.	5.2	145
36	Oxygenâ€“Deficient Hematite Nanorods as Highâ€“Performance and Novel Negative Electrodes for Flexible Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 3148-3155.	11.1	838

#	ARTICLE	IF	CITATIONS
37	Gold nanoparticles inducing surface disorders of titanium dioxide photoanode for efficient water splitting. <i>Nano Energy</i> , 2014, 10, 313-321.	8.2	42
38	Oxygen vacancies enhancing capacitive properties of MnO ₂ nanorods for wearable asymmetric supercapacitors. <i>Nano Energy</i> , 2014, 8, 255-263.	8.2	381
39	A New Benchmark Capacitance for Supercapacitor Anodes by Mixed-Valence Sulfur-Doped V ₆ O ₁₃ . <i>Advanced Materials</i> , 2014, 26, 5869-5875.	11.1	305
40	Polyaniline and Polypyrrole Pseudocapacitor Electrodes with Excellent Cycling Stability. <i>Nano Letters</i> , 2014, 14, 2522-2527.	4.5	688
41	Fe ₃ O ₄ /reduced graphene oxide with enhanced electrochemical performance towards lithium storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7214-7220.	5.2	79
42	NiO decorated Mo:BiVO ₄ photoanode with enhanced visible-light photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4820-4827.	3.8	72
43	Improving the Cycling Stability of Metal-Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <i>Advanced Energy Materials</i> , 2014, 4, 1300994.	10.2	217
44	Hydrogen production from solar driven glucose oxidation over Ni(OH) ₂ functionalized electroreduced-TiO ₂ nanowire arrays. <i>Green Chemistry</i> , 2013, 15, 2434.	4.6	72
45	Improving the photoelectrochemical and photocatalytic performance of CdO nanorods with CdS decoration. <i>CrystEngComm</i> , 2013, 15, 4212.	1.3	110
46	A mechanistic study into the catalytic effect of Ni(OH) ₂ on hematite for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2013, 5, 4129.	2.8	169
47	Efficient electroless nickel plating from highly active Ni-B nanoparticles for electric circuit patterns on Al ₂ O ₃ ceramics. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5149.	2.7	6
48	Conductive membranes of EVA filled with carbon black and carbon nanotubes for flexible energy-storage devices. <i>Journal of Materials Chemistry A</i> , 2013, 1, 505-509.	5.2	41
49	Hierarchical CeO ₂ nanospheres as highly-efficient adsorbents for dye removal. <i>New Journal of Chemistry</i> , 2013, 37, 585.	1.4	62
50	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2013, 239, 64-71.	4.0	121
51	High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. <i>Nano Letters</i> , 2013, 13, 2628-2633.	4.5	691
52	3D MnO ₂ -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2013, 5, 6790.	2.8	258
53	TiO ₂ @C core-shell nanowires for high-performance and flexible solid-state supercapacitors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 225-229.	2.7	192
54	Oxygen vacancies promoting photoelectrochemical performance of In ₂ O ₃ nanocubes. <i>Scientific Reports</i> , 2013, 3, 1021.	1.6	427

#	ARTICLE	IF	CITATIONS
55	H ₂ TiO ₂ @MnO ₂ //H ₂ TiO ₂ @C Core-Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 267-272.	11.1	894
56	Semiconductor Nanowires and Nanowire Heterostructures for Supercapacitors. , 2013, , .		0
57	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. , 2013, , .		0
58	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. <i>Nanoscale</i> , 2012, 4, 3123.	2.8	228
59	Flexible Solid-State Supercapacitors Based on Carbon Nanoparticles/MnO ₂ Nanorods Hybrid Structure. <i>ACS Nano</i> , 2012, 6, 656-661.	7.3	961
60	LiCl/PVA Gel Electrolyte Stabilizes Vanadium Oxide Nanowire Electrodes for Pseudocapacitors. <i>ACS Nano</i> , 2012, 6, 10296-10302.	7.3	310
61	Enhanced photoactivity and stability of carbon and nitrogen co-treated ZnO nanorod arrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry</i> , 2012, 22, 14272.	6.7	85
62	Porous Pr(OH) ₃ Nanostructures as High-Efficiency Adsorbents for Dye Removal. <i>Langmuir</i> , 2012, 28, 11078-11085.	1.6	49
63	Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors. <i>Nano Letters</i> , 2012, 12, 5376-5381.	4.5	627
64	WO ₃ /MoO ₃ Core/Shell Nanowires on Carbon Fabric as an Anode for All-Solid-State Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2012, 2, 1328-1332.	10.2	401
65	Hydrogenated TiO ₂ Nanotube Arrays for Supercapacitors. <i>Nano Letters</i> , 2012, 12, 1690-1696.	4.5	1,226
66	Controllable synthesis of hierarchical ZnO nanodisks for highly photocatalytic activity. <i>CrystEngComm</i> , 2012, 14, 1850.	1.3	75
67	Large-area manganese oxide nanorod arrays as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13350-13354.	3.8	28
68	Facile synthesis of CuO nanorods with abundant adsorbed oxygen concomitant with high surface oxidation states for CO oxidation. <i>RSC Advances</i> , 2012, 2, 11520.	1.7	42
69	Controllable synthesis of porous nickel-cobalt oxide nanosheets for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 13357.	6.7	207
70	Preparation and Magnetic Properties of Polycrystalline Eu ₂ O ₃ Microwires. <i>Journal of the Electrochemical Society</i> , 2012, 159, D204-D207.	1.3	27
71	Controllable Synthesis of Zn/CdS@ZnO Core-Shell Nanorods with Enhanced Photocatalytic Activity. <i>Langmuir</i> , 2012, 28, 10558-10564.	1.6	83
72	Facile preparation and photoelectrochemical properties of CdSe/TiO ₂ NTAs. <i>Materials Research Bulletin</i> , 2012, 47, 580-585.	2.7	26

#	ARTICLE	IF	CITATIONS
73	Facile synthesis of Pr(OH) ₃ nanostructures and their application in water treatment. Materials Research Bulletin, 2012, 47, 1783-1786.	2.7	9
74	WO ₃ @Au@MnO ₂ Core-Shell Nanowires on Carbon Fabric for High-Performance Flexible Supercapacitors. Advanced Materials, 2012, 24, 938-944.	11.1	641
75	Monodisperse CeO ₂ /CdS heterostructured spheres: one-pot synthesis and enhanced photocatalytic hydrogen activity. RSC Advances, 2011, 1, 1207.	1.7	80
76	Redox cycles promoting photocatalytic hydrogen evolution of CeO ₂ nanorods. Journal of Materials Chemistry, 2011, 21, 5569.	6.7	120
77	Facile synthesis of large-area manganese oxide nanorod arrays as a high-performance electrochemical supercapacitor. Energy and Environmental Science, 2011, 4, 2915.	15.6	479
78	Vertically aligned In ₂ O ₃ nanorods on FTO substrates for photoelectrochemical applications. Journal of Materials Chemistry, 2011, 21, 14685.	6.7	59
79	Electrochemical preparation and photoluminescence of Y _{1.95} Eu _{0.05} O ₃ hierarchical nanosheets. Inorganic Chemistry Communication, 2011, 14, 1032-1035.	1.8	3