Mahmut Dirican

List of Publications by Year
in descending order

63 papers	3,618 citations	117625 34 h-index	133252 59 g-index
63 all docs	63 docs citations	63 times ranked	4281 citing authors

#	Article	IF	Citations
1	Interconnected cathode-electrolyte double-layer enabling continuous Li-ion conduction throughout solid-state Li-S battery. Energy Storage Materials, 2022, 44, 136-144.	18.0	24
2	Advanced Zinc Anode with Nitrogenâ€Doping Interface Induced by Plasma Surface Treatment. Advanced Science, 2022, 9, e2103952.	11.2	51
3	Highly Soluble and Stable, High Release Rate Nanocellulose Codrug Delivery System of Curcumin and AuNPs for Dual Chemo-Photothermal Therapy. Biomacromolecules, 2022, 23, 960-971.	5.4	9
4	Polyacrylonitrile Nanofiber-Reinforced Flexible Single-Ion Conducting Polymer Electrolyte for High-Performance, Room-Temperature All-Solid-State Li-Metal Batteries. Advanced Fiber Materials, 2022, 4, 532-546.	16.1	23
5	Highly Foldable, Super-Sensitive, and Transparent Nanocellulose/Ceramic/Polymer Cover Windows for Flexible OLED Displays. ACS Applied Materials & Interfaces, 2022, 14, 16658-16668.	8.0	17
6	Carbon black-based porous sub-micron carbon fibers for flexible supercapacitors. Applied Surface Science, 2021, 537, 147914.	6.1	33
7	ZnO-assisted synthesis of lignin-based ultra-fine microporous carbon nanofibers for supercapacitors. Journal of Colloid and Interface Science, 2021, 586, 412-422.	9.4	48
8	Fe₃O₄/Fe₂O₃/Fe nanoparticles anchored on N-doped hierarchically porous carbon nanospheres as a high-efficiency ORR electrocatalyst for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2021, 9, 2764-2774.	10.3	71
9	Fabrication, structure and supercapacitance of flexible porous carbon nanobelt webs with enhanced inter-fiber connection. Applied Surface Science, 2021, 543, 148783.	6.1	5
10	Rational design of meso-/micro-pores for enhancing ion transportation in highly-porous carbon nanofibers used as electrode for supercapacitors. Applied Surface Science, 2021, 545, 148933.	6.1	29
11	Root-whisker structured 3D CNTs-CNFs network based on coaxial electrospinning: A free-standing anode in lithium-ion batteries. Journal of Alloys and Compounds, 2021, 863, 158481.	5.5	10
12	Hollow Co3O4-x nanoparticles decorated N-doped porous carbon prepared by one-step pyrolysis as an efficient ORR electrocatalyst for rechargeable Zn-air batteries. Carbon, 2021, 181, 87-98.	10.3	56
13	Disintegrable, transparent and mechanically robust high-performance antimony tin oxide/nanocellulose/polyvinyl alcohol thermal insulation films. Carbohydrate Polymers, 2021, 266, 118175.	10.2	23
14	Flexible, transparent and tough silver nanowire/nanocellulose electrodes for flexible touch screen panels. Carbohydrate Polymers, 2021, 273, 118539.	10.2	30
15	A liquid metal assisted dendrite-free anode for high-performance Zn-ion batteries. Journal of Materials Chemistry A, 2021, 9, 5597-5605.	10.3	78
16	Highly Transparent, Thermally Stable, and Mechanically Robust Hybrid Cellulose-Nanofiber/Polymer Substrates for the Electrodes of Flexible Solar Cells. ACS Applied Energy Materials, 2020, 3, 785-793.	5.1	23
17	Garnet-rich composite solid electrolytes for dendrite-free, high-rate, solid-state lithium-metal batteries. Energy Storage Materials, 2020, 26, 448-456.	18.0	104
18	Highly Transparent and Colorless Nanocellulose/Polyimide Substrates with Enhanced Thermal and Mechanical Properties for Flexible OLED Displays. Advanced Materials Interfaces, 2020, 7, 2000928.	3.7	43

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19	Porous carbon nanosheets derived from expanded graphite for supercapacitors and sodium-ion batteries. Journal of Materials Science, 2020, 55, 16323-16333.	3.7	9
20	Highly Thermally Stable, Green Solvent Disintegrable, and Recyclable Polymer Substrates for Flexible Electronics. Macromolecular Rapid Communications, 2020, 41, 2000292.	3.9	10
21	Interlayer design based on carbon materials for lithiumâ€“sulfur batteries: a review. Journal of Materials Chemistry A, 2020, 8, 10709-10735.	10.3	128
22	Low heat yielding electrospun phosphenanthrene oxide loaded polyacrylonitrile composite separators for safer high energy density lithium-ion batteries.. Applied Materials Today, 2020, 20, 100675.	4.3	16
23	Polyaniline/MnO2/porous carbon nanofiber electrodes for supercapacitors. Journal of Electroanalytical Chemistry, 2020, 861, 113995.	3.8	77
24	Iron/manganese oxide-decorated GO-regulated highly porous polyacrylonitrile hollow fiber membrane and its excellent methylene blue-removing performance. Journal of Membrane Science, 2020, 607, 118180.	8.2	12
25	High-Performance 3-D Fiber Network Composite Electrolyte Enabled with Li-Ion Conducting Nanofibers and Amorphous PEO-Based Cross-Linked Polymer for Ambient All-Solid-State Lithium-Metal Batteries. Advanced Fiber Materials, 2019, 1, 46-60.	16.1	59
26	Centrifugal Spinningâ€”High Rate Production of Nanofibers. , 2019, , 321-338.		14
27	SnS hollow nanofibers as anode materials for sodium-ion batteries with high capacity and ultra-long cycling stability. Chemical Communications, 2019, 55, 505-508.	4.1	40
28	Binding Conductive Ink Initiatively and Strongly: Transparent and Thermally Stable Cellulose Nanopaper as a Promising Substrate for Flexible Electronics. ACS Applied Materials & Interfaces, 2019, 11, 20281-20290.	8.0	31
29	Flexible polyaniline-carbon nanofiber supercapacitor electrodes. Journal of Energy Storage, 2019, 24, 100766.	8.1	115
30	Hybrid Carbon Nanotube Fabrics with Sacrificial Nanofibers for Flexible High Performance Lithium-Ion Battery Anodes. Journal of the Electrochemical Society, 2019, 166, A473-A479.	2.9	16
31	Flexible electrolyte-cathode bilayer framework with stabilized interface for room-temperature all-solid-state lithium-sulfur batteries. Energy Storage Materials, 2019, 17, 220-225.	18.0	98
32	Composite solid electrolytes for all-solid-state lithium batteries. Materials Science and Engineering Reports, 2019, 136, 27-46.	31.8	311
33	Advanced ZnSnS₃@rGO Anode Material for Superior Sodiumâ€Ion and Lithiumâ€Ion Storage with Ultralong Cycle Life. ChemElectroChem, 2019, 6, 1183-1191.	3.4	15
34	Carbon-enhanced centrifugally-spun SnSb/carbon microfiber composite as advanced anode material for sodium-ion battery. Journal of Colloid and Interface Science, 2019, 536, 655-663.	9.4	17
35	Reduced Graphene Oxide-Incorporated SnSb@CNF Composites as Anodes for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 9696-9703.	8.0	46
36	High-performance SnSb@rGO@CMF composites as anode material for sodium-ion batteries through high-speed centrifugal spinning. Journal of Alloys and Compounds, 2018, 752, 296-302.	5.5	33

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37	In Situ Polymerization of Nanostructured Conductive Polymer on 3D Sulfur/Carbon Nanofiber Composite Network as Cathode for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials Interfaces, 2018, 5, 1701598.	3.7	50
38	Glass fiber separatorÂcoated by porous carbon nanofiber derived fromÂimmiscible PAN/PMMA forÂhigh-performance lithium-sulfur batteries. Journal of Membrane Science, 2018, 552, 31-42.	8.2	83
39	Li_{0.33}La_{0.557}TiO₃ ceramic nanofiber-enhanced polyethylene oxide-based composite polymer electrolytes for all-solid-state lithium batteries. Journal of Materials Chemistry A, 2018, 6, 4279-4285.	10.3	280
40	Effect of reduced graphene oxide reduction degree on the performance of polysulfide rejection in lithium-sulfur batteries. Carbon, 2018, 126, 594-600.	10.3	40
41	Biomass-derived porous carbon modified glass fiber separator as polysulfide reservoir for Li-S batteries. Journal of Colloid and Interface Science, 2018, 513, 231-239.	9.4	86
42	Electrospun Kraft Lignin/Cellulose Acetate-Derived Nanocarbon Network as an Anode for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 44368-44375.	8.0	41
43	Rationally designed carbon coated ZnSnS3 nano cubes as high-performance anode for advanced sodium-ion batteries. Electrochimica Acta, 2018, 292, 646-654.	5.2	18
44	Carbon-coated CoS@rGO anode material with enhanced cyclic stability for sodium storage. Materials Letters, 2018, 233, 158-161.	2.6	17
45	Ultrafine and polar ZrO2-inlaid porous nitrogen-doped carbon nanofiber as efficient polysulfide absorbent for high-performance lithium-sulfur batteries with long lifespan. Chemical Engineering Journal, 2018, 349, 376-387.	12.7	91
46	Fabrication and electrochemical behavior study of nano-fibrous sodium titanate composite. Materials Letters, 2017, 188, 176-179.	2.6	15
47	A novel bi-functional double-layer rGOâ€“PVDF/PVDF composite nanofiber membrane separator with enhanced thermal stability and effective polysulfide inhibition for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 15096-15104.	10.3	121
48	Centrifugally-spun carbon microfibers and porous carbon microfibers as anode materials for sodium-ion batteries. Journal of Power Sources, 2016, 327, 333-339.	7.8	26
49	Comparing the structures and sodium storage properties of centrifugally spun SnO2 microfiber anodes with/without chemical vapor deposition. Journal of Materials Science, 2016, 51, 4549-4558.	3.7	8
50	Centrifugally Spun SnO₂ Microfibers Composed of Interconnected Nanoparticles as the Anode in Sodiumâ€Ion Batteries. ChemElectroChem, 2015, 2, 1947-1956.	3.4	25
51	Carbon-Confined SnO₂-Electrodeposited Porous Carbon Nanofiber Composite as High-Capacity Sodium-Ion Battery Anode Material. ACS Applied Materials & Interfaces, 2015, 7, 18387-18396.	8.0	138
52	Flexible binder-free silicon/silica/carbon nanofiber composites as anode for lithiumâ€“ion batteries. Electrochimica Acta, 2015, 169, 52-60.	5.2	75
53	SiO₂-confined silicon/carbon nanofiber composites as an anode for lithium-ion batteries. RSC Advances, 2015, 5, 34744-34751.	3.6	20
54	Lithium-substituted sodium layered transition metal oxide fibers as cathodes for sodium-ion batteries. Energy Storage Materials, 2015, 1, 74-81.	18.0	29

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55	Centrifugally-spun tin-containing carbon nanofibers as anode material for lithium-ion batteries. Journal of Materials Science, 2015, 50, 1094-1102.	3.7	34
56	Centrifugal spinning: A novel approach to fabricate porous carbon fibers as binder-free electrodes for electric double-layer capacitors. Journal of Power Sources, 2015, 273, 502-510.	7.8	72
57	Nanoparticle-on-nanofiber hybrid membrane separators for lithium-ion batteries via combining electrospraying and electrospinning techniques. Journal of Membrane Science, 2014, 456, 57-65.	8.2	180
58	Carbon-Confined PVA-Derived Silicon/Silica/Carbon Nanofiber Composites as Anode for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A2197-A2203.	2.9	42
59	Free-standing polyanilineâ€“porous carbon nanofiber electrodes for symmetric and asymmetric supercapacitors. RSC Advances, 2014, 4, 59427-59435.	3.6	53
60	Sulfur gradient-distributed CNF composite: a self-inhibiting cathode for binder-free lithiumâ€“sulfur batteries. Chemical Communications, 2014, 50, 10277-10280.	4.1	75
61	Evaluation of electrospun SiO2/nylon 6,6 nanofiber membranes as a thermally-stable separator for lithium-ion batteries. Electrochimica Acta, 2014, 133, 501-508.	5.2	119
62	Carbon-enhanced electrodeposited SnO2/carbon nanofiber composites as anode for lithium-ion batteries. Journal of Power Sources, 2014, 264, 240-247.	7.8	96
63	Chamber-confined siliconâ€“carbon nanofiber composites for prolonged cycling life of Li-ion batteries. Nanoscale, 2014, 6, 7489-7495.	5.6	60