Tian-Yu Liu

List of Publications by Year
in descending order

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115 papers	9,780 citations	47 h-index	97 g-index
		47006	36028
121 all docs	121 docs citations	121 times ranked	13159 citing authors

#	Article	IF	Citations
1	High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. Nano Letters, 2013, 13, 2628-2633.	9.1	691
2	Polyaniline and Polypyrrole Pseudocapacitor Electrodes with Excellent Cycling Stability. Nano Letters, 2014, 14, 2522-2527.	9.1	688
3	Supercapacitors Based on Three-Dimensional Hierarchical Graphene Aerogels with Periodic Macropores. Nano Letters, 2016, 16, 3448-3456.	9.1	608
4	Revitalizing carbon supercapacitor electrodes with hierarchical porous structures. Journal of Materials Chemistry A, 2017, 5, 17705-17733.	10.3	464
5	Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. Advanced Energy Materials, 2017, 7, 1700555.	19.5	455
6	Paperâ€Based Electrodes for Flexible Energy Storage Devices. Advanced Science, 2017, 4, 1700107.	11.2	361
7	Whole-exome and targeted gene sequencing of gallbladder carcinoma identifies recurrent mutations in the ErbB pathway. Nature Genetics, 2014, 46, 872-876.	21.4	343
8	Pore and Heteroatom Engineered Carbon Foams for Supercapacitors. Advanced Energy Materials, 2019, 9, 1803665.	19.5	321
9	A New Benchmark Capacitance for Supercapacitor Anodes by Mixedâ€Valence Sulfurâ€Doped V₆O_{13â^'x}. Advanced Materials, 2014, 26, 5869-5875.	21.0	305
10	3D printed functional nanomaterials for electrochemical energy storage. Nano Today, 2017, 15, 107-120.	11.9	302
11	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. Nano Letters, 2017, 17, 3097-3104.	9.1	251
12	Pushing the Cycling Stability Limit of Polypyrrole for Supercapacitors. Advanced Functional Materials, 2015, 25, 4626-4632.	14.9	234
13	Improving the Cycling Stability of Metalâ€“Nitride Supercapacitor Electrodes with a Thin Carbon Shell. Advanced Energy Materials, 2014, 4, 1300994.	19.5	217
14	Block copolymer derived uniform mesopores enable ultrafast electron and ion transport at high mass loadings. Nature Communications, 2019, 10, 675.	12.8	213
15	Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes. Nano Letters, 2017, 17, 2490-2495.	9.1	204
16	Block copolymerâ€“based porous carbon fibers. Science Advances, 2019, 5, eaau6852.	10.3	201
17	Electrodeposition of vanadium oxideâ€“polyaniline composite nanowire electrodes for high energy density supercapacitors. Journal of Materials Chemistry A, 2014, 2, 10882-10888.	10.3	165
18	Enhanced Interfacial Interaction and CO₂ Separation Performance of Mixed Matrix Membrane by Incorporating Polyethylenimine-Decorated Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2015, 7, 1065-1077.	8.0	162

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19	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. ACS Energy Letters, 2017, 2, 1752-1759.	17.4	146
20	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. Nano-Micro Letters, 2020, 12, 118.	27.0	146
21	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 17151-17173.	10.3	135
22	Addressing the Achilles' heel of pseudocapacitive materials: Longâ€term stability. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 807-842.	17.3	135
23	Hierarchically porous carbon foams for electric double layer capacitors. Nano Research, 2016, 9, 2875-2888.	10.4	120
24	Amorphous Mixedâ€Valence Vanadium Oxide/Exfoliated Carbon Cloth Structure Shows a Record High Cycling Stability. Small, 2017, 13, 1700067.	10.0	119
25	An Electrochemical Capacitor with Applicable Energy Density of 7.4 Wh/kg at Average Power Density of 3000 W/kg. Nano Letters, 2015, 15, 3189-3194.	9.1	118
26	[3 + 1]- and [3 + 2]-Cycloadditions of Azaoxyallyl Cations and Sulfur Ylides. Organic Letters, 2016, 18, 2738-2741.	4.6	109
27	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. Nanoscale, 2017, 9, 13119-13127.	5.6	108
28	Exceptional capacitive deionization rate and capacity by block copolymerâ€“based porous carbon fibers. Science Advances, 2020, 6, eaaz0906.	10.3	108
29	LNMICC Promotes Nodal Metastasis of Cervical Cancer by Reprogramming Fatty Acid Metabolism. Cancer Research, 2018, 78, 877-890.	0.9	104
30	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. Advanced Energy Materials, 2018, 8, 1801784.	19.5	97
31	Calcium-dependent protein kinase (CDPK) and CDPK-related kinase (CRK) gene families in tomato: genome-wide identification and functional analyses in disease resistance. Molecular Genetics and Genomics, 2016, 291, 661-676.	2.1	92
32	Controlled partial-exfoliation of graphite foil and integration with MnO2nanosheets for electrochemical capacitors. Nanoscale, 2015, 7, 3581-3587.	5.6	91
33	Boosting Power Density of Microbial Fuel Cells with 3D Nitrogenâ€Doped Graphene Aerogel Electrode. Advanced Science, 2016, 3, 1600097.	11.2	91
34	Deoxycholic acid disrupts the intestinal mucosal barrier and promotes intestinal tumorigenesis. Food and Function, 2018, 9, 5588-5597.	4.6	90
35	Investigation of hematite nanorodâ€“nanoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. Nano Energy, 2015, 12, 169-177.	16.0	83
36	Zipping Up NiFe(OH)_x-Encapsulated Hematite To Achieve an Ultralow Turn-On Potential for Water Oxidation. ACS Energy Letters, 2019, 4, 1983-1990.	17.4	82

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37	Interplay between bile acids and the gut microbiota promotes intestinal carcinogenesis. Molecular Carcinogenesis, 2019, 58, 1155-1167.	2.7	81
38	Direct ink writing of organic and carbon aerogels. Materials Horizons, 2018, 5, 1166-1175.	12.2	78
39	Enantioselective [4 + 1] Annulation Reactions of Î±-Substituted Ammonium Ylides To Construct Spirocyclic Oxindoles. Journal of the American Chemical Society, 2015, 137, 9390-9399.	13.7	74
40	Block copolymer-based porous carbons for supercapacitors. Journal of Materials Chemistry A, 2019, 7, 23476-23488.	10.3	74
41	Oridonin induces apoptosis and cell cycle arrest of gallbladder cancer cells via the mitochondrial pathway. BMC Cancer, 2014, 14, 217.	2.6	69
42	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. Journal of Materials Chemistry A, 2016, 4, 15913-15919.	10.3	68
43	Three-dimensional carbon architectures for electrochemical capacitors. Journal of Colloid and Interface Science, 2018, 509, 529-545.	9.4	67
44	Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. Nano Letters, 2015, 15, 7051-7057.	9.1	57
45	Lyapunov functions for nabla discrete fractional order systems. ISA Transactions, 2019, 88, 82-90.	5.7	54
46	Identification, and Functional and Expression Analyses of the CorA/MRS2/MGT-Type Magnesium Transporter Family in Maize. Plant and Cell Physiology, 2016, 57, 1153-1168.	3.1	51
47	Metal organic frameworks with immobilized nanoparticles: Synthesis and applications in photocatalytic hydrogen generation and energy storage. Materials Research Bulletin, 2017, 96, 385-394.	5.2	50
48	Sufficient and necessary conditions for stabilizing singular fractional order systems with partially measurable state. Journal of the Franklin Institute, 2019, 356, 1975-1990.	3.4	49
49	The potassium hydroxide-urea synergy in improving the capacitive energy-storage performance of agar-derived carbon aerogels. Carbon, 2019, 147, 451-459.	10.3	46
50	Tri-layered graphite foil for electrochemical capacitors. Journal of Materials Chemistry A, 2016, 4, 7683-7688.	10.3	43
51	Ion Intercalation Induced Capacitance Improvement for Grapheneâ€Based Supercapacitor Electrodes. ChemNanoMat, 2016, 2, 635-641.	2.8	41
52	Porous organic materials offer vast future opportunities. Nature Communications, 2020, 11, 4984.	12.8	39
53	The complete mitochondrial genome of the scab mite Psoroptes cuniculi (Arthropoda: Arachnida) provides insights into Acari phylogeny. Parasites and Vectors, 2014, 7, 340.	2.5	37
54	Plasmonic solar desalination. Nature Photonics, 2016, 10, 361-362.	31.4	35

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55	Controlling the physical and electrochemical properties of block copolymer-based porous carbon fibers by pyrolysis temperature. Molecular Systems Design and Engineering, 2020, 5, 153-165.	3.4	34
56	A silver wire aerogel promotes hydrogen peroxide reduction for fuel cells and electrochemical sensors. Journal of Materials Chemistry A, 2019, 7, 11497-11505.	10.3	32
57	Chemopreventive Effects of Silibinin on Colitis-Associated Tumorigenesis by Inhibiting IL-6/STAT3 Signaling Pathway. Mediators of Inflammation, 2018, 2018, 1-15.	3.0	31
58	Composition Design of Block Copolymers for Porous Carbon Fibers. Chemistry of Materials, 2019, 31, 8898-8907.	6.7	31
59	Fractional central difference Kalman filter with unknown prior information. Signal Processing, 2019, 154, 294-303.	3.7	31
60	Baicalein Inhibits Progression of Gallbladder Cancer Cells by Downregulating ZFX. PLoS ONE, 2015, 10, e0114851.	2.5	28
61	Block copolymers for supercapacitors, dielectric capacitors and batteries. Journal of Physics Condensed Matter, 2019, 31, 233001.	1.8	27
62	Molecular-Level Control over Plasmonic Properties in Silver Nanoparticle/Self-Assembling Peptide Hybrids. Journal of the American Chemical Society, 2020, 142, 9158-9162.	13.7	26
63	A novel orthogonalized fractional order filtered-x normalized least mean squares algorithm for feedforward vibration rejection. Mechanical Systems and Signal Processing, 2019, 119, 138-154.	8.0	24
64	Generating Electricity on Chips: Microfluidic Biofuel Cells in Perspective. Industrial & Engineering Chemistry Research, 2018, 57, 2746-2758.	3.7	22
65	Hierarchical MoS2-Coated V2O3 composite nanosheet tubes as both the cathode and anode materials for pseudocapacitors. Electrochimica Acta, 2018, 277, 218-225.	5.2	21
66	Tuning the Electrochemical Properties of Nitrogen-Doped Carbon Aerogels in a Blend of Ammonia and Nitrogen Gases. ACS Applied Energy Materials, 2018, 1, 5043-5053.	5.1	21
67	Cobalt-Containing Nanoporous Nitrogen-Doped Carbon Nanocuboids from Zeolite Imidazole Frameworks for Supercapacitors. Nanomaterials, 2019, 9, 1110.	4.1	21
68	Sequence Analysis of cytb Gene in Echinococcus granulosus from Western China. Korean Journal of Parasitology, 2014, 52, 205-209.	1.3	20
69	Dietary feeding of freeze-dried whole cranberry inhibits intestinal tumor development in Apcmin/+ mice. Oncotarget, 2017, 8, 97787-97800.	1.8	18
70	Charge/spin supercurrent and the Fulde-Ferrell state induced by crystal deformation in Weyl/Dirac superconductors. Physical Review B, 2018, 97, .	3.2	18
71	Nitrogen-doped carbon â€œspider websâ€•derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. Journal of Materials Research, 2018, 33, 1109-1119.	2.6	16
72	Sub-10 nm domains in high-performance polyetherimides. Polymer Chemistry, 2019, 10, 379-385.	3.9	15

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73	Enhanced Heterogeneous Nucleation by Pulsed Magnetoâ€Oscillation Treatment of Liquid Aluminum Containing Al3Ti1B Additions. Advanced Engineering Materials, 2015, 17, 1465-1469.	3.5	13
74	Mechanisms of void shrinkage in aluminium. Journal of Applied Crystallography, 2016, 49, 1459-1470.	4.5	13
75	Fixed pole based modeling and simulation schemes for fractional order systems. ISA Transactions, 2019, 84, 43-54.	5.7	12
76	Capacitive Organic Dye Removal by Block Copolymer Based Porous Carbon Fibers. Advanced Materials Interfaces, 2020, 7, 2000507.	3.7	11
77	Thermally Stable and Mechanically Strong Mesoporous Films of Poly(ether imide)-Based Triblock Copolymers. ACS Applied Polymer Materials, 2020, 2, 1398-1405.	4.4	11
78	Feasibility study of individualized optimal positioning selection for leftâ€sided whole breast radiotherapy: <scp>DIBH</scp> or prone. Journal of Applied Clinical Medical Physics, 2018, 19, 218-229.	1.9	10
79	Targeting Thioredoxin Reductase by Ibrutinib Promotes Apoptosis of SMMC-7721 Cells. Journal of Pharmacology and Experimental Therapeutics, 2019, 369, 212-222.	2.5	10
80	Impact of metal cations on the thermal, mechanical, and rheological properties of telechelic sulfonated polyetherimides. Polymer Chemistry, 2020, 11, 393-400.	3.9	10
81	Tetrandrine induces apoptosis in gallbladder carcinoma in vitro. International Journal of Clinical Pharmacology and Therapeutics, 2014, 52, 900-905.	0.6	10
82	Preparation of Paraffin@Poly(styrene-co-acrylic acid) Phase Change Nanocapsules via Combined Miniemulsion/Emulsion Polymerization. Journal of Nanoscience and Nanotechnology, 2018, 18, 4413-4417.	0.9	9
83	The complete mitochondrial genome of G3 genotype ofEchinococcus granulosus(Cestoda: Taeniidae). Mitochondrial DNA, 2014, 27, 1-2.	0.6	8
84	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. Journal of Materials Research, 2018, 33, 1279-1287.	2.6	8
85	Porous carbon fibers from gel-spun polyacrylonitrile and poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 Td (methacryla	10.3	7
86	Boosting the Power-Generation Performance of Micro-Sized Al-H2O2 Fuel Cells by Using Silver Nanowires as the Cathode. Energies, 2018, 11, 2316.	3.1	6
87	Utilization of Block Copolymers to Understand Water Vaporization Enthalpy Reduction in Uniform Pores. Macromolecules, 2022, 55, 4803-4811.	4.8	5
88	Greening the production and utilization of ammonia. MRS Bulletin, 2020, 45, 698-699.	3.5	4
89	Overlooking Issues and Prospective Resolutions Behind the Prosperity of Three-Dimensional Porous Carbon Supercapacitor Electrodes. Frontiers in Energy Research, 2020, 8, .	2.3	3
90	Energy Focus: Functionalized-carbon-supported Pt-Co alloy nanoparticle catalyst yields reduced-cost fuel cells. MRS Bulletin, 2019, 44, 153-154.	3.5	2

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91	Mesoporous polyetherimide thin films via hydrolysis of polylactide-b-polyetherimide-b-polylactide. Polymer Chemistry, 2021, 12, 3939-3946.	3.9	2
92	Nano Focus: Vertically aligned MXene nanosheets speed up supercapacitor. MRS Bulletin, 2018, 43, 569-570.	3.5	1
93	Thermal oxidation toughens carbon fiber/polysulfone composites. MRS Bulletin, 2019, 44, 910-910.	3.5	1
94	Mediator atoms drive structural evolution of defects in graphene. MRS Bulletin, 2020, 45, 615-615.	3.5	1
95	ENERGY FOCUS: Metalâ€“organic-framework-derived â€œsandwichesâ€•enhance longevity of Li-S batteries. MRS Bulletin, 2020, 45, 13-14.	3.5	1
96	Energy Focus: Influence of grain boundaries on Li-ion conductivity characterized at atomic scale. MRS Bulletin, 2018, 43, 255-256.	3.5	0
97	Energy Focus: Continuous roll-to-roll system facilitates mass production of organic photovoltaic cells. MRS Bulletin, 2018, 43, 815-816.	3.5	0
98	Separating photo-induced electrons provides a new paradigm in optoelectronic control. MRS Bulletin, 2018, 43, 910-911.	3.5	0
99	Na-K alloy electrode and K-Î²â€²â€²-alumina electrolyte unlock high-voltage flow batteries. MRS Bulletin, 2018, 43, 728-728.	3.5	0
100	Nano Focus: Remote-controlled wearable tribo-sensor is compatible with water. MRS Bulletin, 2018, 43, 648-648.	3.5	0
101	Bio Focus: Cryo-transmission electron microscopy reveals protein nucleation pathways. MRS Bulletin, 2018, 43, 398-399.	3.5	0
102	Molecular bridging agents render ultra-tough macroscopic graphene films. MRS Bulletin, 2018, 43, 473-473.	3.5	0
103	Atomic thin layers of Sn exhibit superconductivity. MRS Bulletin, 2018, 43, 320-320.	3.5	0
104	Peptide linkers soften metalâ€“organic frameworks. MRS Bulletin, 2019, 44, 328-328.	3.5	0
105	Illuminated graphene oxide membranes pump ions against concentration gradient. MRS Bulletin, 2019, 44, 426.	3.5	0
106	Plasma-enhanced CVD dopes carbon into WS₂. MRS Bulletin, 2019, 44, 602-603.	3.5	0
107	The puzzle of water solubilities of polyethers solved. MRS Bulletin, 2019, 44, 675-676.	3.5	0
108	Nano Focus: â€œGO doughsâ€•build versatile graphene-based structures. MRS Bulletin, 2019, 44, 231-231.	3.5	0

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109	Hydratable polymer networks accelerate solar desalination. MRS Bulletin, 2019, 44, 746-746.	3.5	0
110	The carbon allotrope family welcomes a new member. MRS Bulletin, 2019, 44, 838-838.	3.5	0
111	Atomic layer deposition transforms SnS₂ into SnS. MRS Bulletin, 2020, 45, 519-519.	3.5	0
112	Editorial: Three-Dimensional Carbon Architectures for Energy Conversion and Storage. Frontiers in Energy Research, 2020, 8, .	2.3	0
113	Self-intercalation forms covalently bonded 2D transition-metal chalcogenide layers. MRS Bulletin, 2020, 45, 883-883.	3.5	0
114	Ultrasound strengthens 3D printed metal alloys. MRS Bulletin, 2020, 45, 258-258.	3.5	0
115	Carbon scrolls stabilize silicon nanoparticles in lithium-ion batteries. MRS Bulletin, 2020, 45, 336-337.	3.5	0