

# Tian-Yu Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6566696/publications.pdf>

Version: 2024-02-01

115  
papers

9,780  
citations

47006

47  
h-index

36028

97  
g-index

121  
all docs

121  
docs citations

121  
times ranked

13159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous carbon fibers from gel-spun polyacrylonitrile and poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5Q 742 Td (methacrylat	10.3	742
2	Utilization of Block Copolymers to Understand Water Vaporization Enthalpy Reduction in Uniform Pores. <i>Macromolecules</i> , 2022, 55, 4803-4811.	4.8	5
3	Mesoporous polyetherimide thin films <i>via</i> hydrolysis of polyamide- <i>b</i> -polyetherimide- <i>b</i> -polylactide. <i>Polymer Chemistry</i> , 2021, 12, 3939-3946.	3.9	2
4	Controlling the physical and electrochemical properties of block copolymer-based porous carbon fibers by pyrolysis temperature. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 153-165.	3.4	34
5	Impact of metal cations on the thermal, mechanical, and rheological properties of telechelic sulfonated polyetherimides. <i>Polymer Chemistry</i> , 2020, 11, 393-400.	3.9	10
6	Porous organic materials offer vast future opportunities. <i>Nature Communications</i> , 2020, 11, 4984.	12.8	39
7	Atomic layer deposition transforms SnS <sub>2</sub> into SnS. <i>MRS Bulletin</i> , 2020, 45, 519-519.	3.5	0
8	Editorial: Three-Dimensional Carbon Architectures for Energy Conversion and Storage. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	0
9	Mediator atoms drive structural evolution of defects in graphene. <i>MRS Bulletin</i> , 2020, 45, 615-615.	3.5	1
10	Self-intercalation forms covalently bonded 2D transition-metal chalcogenide layers. <i>MRS Bulletin</i> , 2020, 45, 883-883.	3.5	0
11	Greening the production and utilization of ammonia. <i>MRS Bulletin</i> , 2020, 45, 698-699.	3.5	4
12	Molecular-Level Control over Plasmonic Properties in Silver Nanoparticle/Self-Assembling Peptide Hybrids. <i>Journal of the American Chemical Society</i> , 2020, 142, 9158-9162.	13.7	26
13	Ultrasound strengthens 3D printed metal alloys. <i>MRS Bulletin</i> , 2020, 45, 258-258.	3.5	0
14	A Review on Nano-/Microstructured Materials Constructed by Electrochemical Technologies for Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 118.	27.0	146
15	Carbon scrolls stabilize silicon nanoparticles in lithium-ion batteries. <i>MRS Bulletin</i> , 2020, 45, 336-337.	3.5	0
16	Capacitive Organic Dye Removal by Block Copolymer Based Porous Carbon Fibers. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000507.	3.7	11
17	Addressing the Achilles' heel of pseudocapacitive materials: Long-term stability. <i>Informa-Materially</i> , 2020, 2, 807-842.	17.3	135
18	Overlooking Issues and Prospective Resolutions Behind the Prosperity of Three-Dimensional Porous Carbon Supercapacitor Electrodes. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	3

#	ARTICLE	IF	CITATIONS
19	ENERGY FOCUS: Metal-organic-framework-derived "sandwiches" enhance longevity of Li-S batteries. MRS Bulletin, 2020, 45, 13-14.	3.5	1
20	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
21	Exceptional capacitive deionization rate and capacity by block copolymer-based porous carbon fibers. Science Advances, 2020, 6, eaaz0906.	10.3	108
22	Cobalt-Containing Nanoporous Nitrogen-Doped Carbon Nanocuboids from Zeolite Imidazole Frameworks for Supercapacitors. Nanomaterials, 2019, 9, 1110.	4.1	21
23	Block copolymer-based porous carbons for supercapacitors. Journal of Materials Chemistry A, 2019, 7, 23476-23488.	10.3	74
24	Zippering Up NiFe(OH) <sub>x</sub> -Encapsulated Hematite To Achieve an Ultralow Turn-On Potential for Water Oxidation. ACS Energy Letters, 2019, 4, 1983-1990.	17.4	82
25	Peptide linkers soften metal-organic frameworks. MRS Bulletin, 2019, 44, 328-328.	3.5	0
26	Composition Design of Block Copolymers for Porous Carbon Fibers. Chemistry of Materials, 2019, 31, 8898-8907.	6.7	31
27	Sub-10 nm domains in high-performance polyetherimides. Polymer Chemistry, 2019, 10, 379-385.	3.9	15
28	Illuminated graphene oxide membranes pump ions against concentration gradient. MRS Bulletin, 2019, 44, 426.	3.5	0
29	Plasma-enhanced CVD dopes carbon into WS <sub>2</sub> . MRS Bulletin, 2019, 44, 602-603.	3.5	0
30	The puzzle of water solubilities of polyethers solved. MRS Bulletin, 2019, 44, 675-676.	3.5	0
31	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
32	Block copolymer-based porous carbon fibers. Science Advances, 2019, 5, eaau6852.	10.3	201
33	Nano Focus: "GO doughs" build versatile graphene-based structures. MRS Bulletin, 2019, 44, 231-231.	3.5	0
34	Interplay between bile acids and the gut microbiota promotes intestinal carcinogenesis. Molecular Carcinogenesis, 2019, 58, 1155-1167.	2.7	81
35	Pore and Heteroatom Engineered Carbon Foams for Supercapacitors. Advanced Energy Materials, 2019, 9, 1803665.	19.5	321
36	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

#	ARTICLE	IF	CITATIONS
37	Energy Focus: Functionalized-carbon-supported Pt-Co alloy nanoparticle catalyst yields reduced-cost fuel cells. MRS Bulletin, 2019, 44, 153-154.	3.5	2
38	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
39	Block copolymers for supercapacitors, dielectric capacitors and batteries. Journal of Physics Condensed Matter, 2019, 31, 233001.	1.8	27
40	Block copolymer derived uniform mesopores enable ultrafast electron and ion transport at high mass loadings. Nature Communications, 2019, 10, 675.	12.8	213
41	Targeting Thioredoxin Reductase by Ibrutinib Promotes Apoptosis of SMMC-7721 Cells. Journal of Pharmacology and Experimental Therapeutics, 2019, 369, 212-222.	2.5	10
42	Thermal oxidation toughens carbon fiber/polysulfone composites. MRS Bulletin, 2019, 44, 910-910.	3.5	1
43	Hydratable polymer networks accelerate solar desalination. MRS Bulletin, 2019, 44, 746-746.	3.5	0
44	The carbon allotrope family welcomes a new member. MRS Bulletin, 2019, 44, 838-838.	3.5	0
45	Lyapunov functions for nabla discrete fractional order systems. ISA Transactions, 2019, 88, 82-90.	5.7	54
46	Fixed pole based modeling and simulation schemes for fractional order systems. ISA Transactions, 2019, 84, 43-54.	5.7	12
47	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
48	Fractional central difference Kalman filter with unknown prior information. Signal Processing, 2019, 154, 294-303.	3.7	31
49	Generating Electricity on Chips: Microfluidic Biofuel Cells in Perspective. Industrial & Engineering Chemistry Research, 2018, 57, 2746-2758.	3.7	22
50	Energy Focus: Influence of grain boundaries on Li-ion conductivity characterized at atomic scale. MRS Bulletin, 2018, 43, 255-256.	3.5	0
51	Feasibility study of individualized optimal positioning selection for left-sided whole breast radiotherapy: <sc>DIBH</sc> or prone. Journal of Applied Clinical Medical Physics, 2018, 19, 218-229.	1.9	10
52	Nitrogen-doped carbon "spider webs" derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. Journal of Materials Research, 2018, 33, 1109-1119.	2.6	16
53	Hierarchical MoS <sub>2</sub> -Coated V <sub>2</sub> O <sub>3</sub> composite nanosheet tubes as both the cathode and anode materials for pseudocapacitors. Electrochimica Acta, 2018, 277, 218-225.	5.2	21
54	Charge/spin supercurrent and the Fulde-Ferrell state induced by crystal deformation in Weyl/Dirac superconductors. Physical Review B, 2018, 97, .	3.2	18

#	ARTICLE	IF	CITATIONS
55	Three-dimensional carbon architectures for electrochemical capacitors. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 529-545.	9.4	67
56	LNMICC Promotes Nodal Metastasis of Cervical Cancer by Reprogramming Fatty Acid Metabolism. <i>Cancer Research</i> , 2018, 78, 877-890.	0.9	104
57	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. <i>Journal of Materials Research</i> , 2018, 33, 1279-1287.	2.6	8
58	Deoxycholic acid disrupts the intestinal mucosal barrier and promotes intestinal tumorigenesis. <i>Food and Function</i> , 2018, 9, 5588-5597.	4.6	90
59	Energy Focus: Continuous roll-to-roll system facilitates mass production of organic photovoltaic cells. <i>MRS Bulletin</i> , 2018, 43, 815-816.	3.5	0
60	Separating photo-induced electrons provides a new paradigm in optoelectronic control. <i>MRS Bulletin</i> , 2018, 43, 910-911.	3.5	0
61	Chemopreventive Effects of Silibinin on Colitis-Associated Tumorigenesis by Inhibiting IL-6/STAT3 Signaling Pathway. <i>Mediators of Inflammation</i> , 2018, 2018, 1-15.	3.0	31
62	Boosting the Power-Generation Performance of Micro-Sized Al-H <sub>2</sub> O <sub>2</sub> Fuel Cells by Using Silver Nanowires as the Cathode. <i>Energies</i> , 2018, 11, 2316.	3.1	6
63	Na-K alloy electrode and K <sup>+</sup> -alumina electrolyte unlock high-voltage flow batteries. <i>MRS Bulletin</i> , 2018, 43, 728-728.	3.5	0
64	Nano Focus: Remote-controlled wearable tribo-sensor is compatible with water. <i>MRS Bulletin</i> , 2018, 43, 648-648.	3.5	0
65	Direct ink writing of organic and carbon aerogels. <i>Materials Horizons</i> , 2018, 5, 1166-1175.	12.2	78
66	Nano Focus: Vertically aligned MXene nanosheets speed up supercapacitor. <i>MRS Bulletin</i> , 2018, 43, 569-570.	3.5	1
67	Tuning the Electrochemical Properties of Nitrogen-Doped Carbon Aerogels in a Blend of Ammonia and Nitrogen Gases. <i>ACS Applied Energy Materials</i> , 2018, 1, 5043-5053.	5.1	21
68	Bio Focus: Cryo-transmission electron microscopy reveals protein nucleation pathways. <i>MRS Bulletin</i> , 2018, 43, 398-399.	3.5	0
69	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801784.	19.5	97
70	Molecular bridging agents render ultra-tough macroscopic graphene films. <i>MRS Bulletin</i> , 2018, 43, 473-473.	3.5	0
71	Atomic thin layers of Sn exhibit superconductivity. <i>MRS Bulletin</i> , 2018, 43, 320-320.	3.5	0
72	Preparation of Paraffin@Poly(styrene-co-acrylic acid) Phase Change Nanocapsules via Combined Miniemulsion/Emulsion Polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 4413-4417.	0.9	9

#	ARTICLE	IF	CITATIONS
73	Amorphous Mixed-Valence Vanadium Oxide/Exfoliated Carbon Cloth Structure Shows a Record High Cycling Stability. <i>Small</i> , 2017, 13, 1700067.	10.0	119
74	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. <i>Nano Letters</i> , 2017, 17, 3097-3104.	9.1	251
75	Metal organic frameworks with immobilized nanoparticles: Synthesis and applications in photocatalytic hydrogen generation and energy storage. <i>Materials Research Bulletin</i> , 2017, 96, 385-394.	5.2	50
76	Paper-Based Electrodes for Flexible Energy Storage Devices. <i>Advanced Science</i> , 2017, 4, 1700107.	11.2	361
77	Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1700555.	19.5	455
78	Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes. <i>Nano Letters</i> , 2017, 17, 2490-2495.	9.1	204
79	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17151-17173.	10.3	135
80	Revitalizing carbon supercapacitor electrodes with hierarchical porous structures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17705-17733.	10.3	464
81	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. <i>Nanoscale</i> , 2017, 9, 13119-13127.	5.6	108
82	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. <i>ACS Energy Letters</i> , 2017, 2, 1752-1759.	17.4	146
83	3D printed functional nanomaterials for electrochemical energy storage. <i>Nano Today</i> , 2017, 15, 107-120.	11.9	302
84	Dietary feeding of freeze-dried whole cranberry inhibits intestinal tumor development in <i>Ap<sup>c</sup>min/+</i> mice. <i>Oncotarget</i> , 2017, 8, 97787-97800.	1.8	18
85	Hierarchically porous carbon foams for electric double layer capacitors. <i>Nano Research</i> , 2016, 9, 2875-2888.	10.4	120
86	Ion Intercalation Induced Capacitance Improvement for Graphene-Based Supercapacitor Electrodes. <i>ChemNanoMat</i> , 2016, 2, 635-641.	2.8	41
87	Mechanisms of void shrinkage in aluminium. <i>Journal of Applied Crystallography</i> , 2016, 49, 1459-1470.	4.5	13
88	Identification, and Functional and Expression Analyses of the CorA/MRS2/MGT-Type Magnesium Transporter Family in Maize. <i>Plant and Cell Physiology</i> , 2016, 57, 1153-1168.	3.1	51
89	Tri-layered graphite foil for electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7683-7688.	10.3	43
90	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15913-15919.	10.3	68

#	ARTICLE	IF	CITATIONS
91	Boosting Power Density of Microbial Fuel Cells with 3D Nitrogen-Doped Graphene Aerogel Electrode. <i>Advanced Science</i> , 2016, 3, 1600097.	11.2	91
92	[3 + 1]- and [3 + 2]-Cycloadditions of Azaoxyallyl Cations and Sulfur Ylides. <i>Organic Letters</i> , 2016, 18, 2738-2741.	4.6	109
93	Plasmonic solar desalination. <i>Nature Photonics</i> , 2016, 10, 361-362.	31.4	35
94	Supercapacitors Based on Three-Dimensional Hierarchical Graphene Aerogels with Periodic Macropores. <i>Nano Letters</i> , 2016, 16, 3448-3456.	9.1	608
95	Calcium-dependent protein kinase (CDPK) and CDPK-related kinase (CRK) gene families in tomato: genome-wide identification and functional analyses in disease resistance. <i>Molecular Genetics and Genomics</i> , 2016, 291, 661-676.	2.1	92
96	Pushing the Cycling Stability Limit of Polypyrrole for Supercapacitors. <i>Advanced Functional Materials</i> , 2015, 25, 4626-4632.	14.9	234
97	Enhanced Heterogeneous Nucleation by Pulsed Magneto-Oscillation Treatment of Liquid Aluminum Containing Al <sub>3</sub> Ti <sub>1</sub> B Additions. <i>Advanced Engineering Materials</i> , 2015, 17, 1465-1469.	3.5	13
98	Enhanced Interfacial Interaction and CO <sub>2</sub> Separation Performance of Mixed Matrix Membrane by Incorporating Polyethylenimine-Decorated Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1065-1077.	8.0	162
99	Controlled partial-exfoliation of graphite foil and integration with MnO <sub>2</sub> nanosheets for electrochemical capacitors. <i>Nanoscale</i> , 2015, 7, 3581-3587.	5.6	91
100	Enantioselective [4 + 1] Annulation Reactions of $\hat{\pm}$ -Substituted Ammonium Ylides To Construct Spirocyclic Oxindoles. <i>Journal of the American Chemical Society</i> , 2015, 137, 9390-9399.	13.7	74
101	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.	9.1	118
102	Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. <i>Nano Letters</i> , 2015, 15, 7051-7057.	9.1	57
103	Investigation of hematite nanorod-nanoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. <i>Nano Energy</i> , 2015, 12, 169-177.	16.0	83
104	Baicalein Inhibits Progression of Gallbladder Cancer Cells by Downregulating ZFX. <i>PLoS ONE</i> , 2015, 10, e0114851.	2.5	28
105	The complete mitochondrial genome of G3 genotype of <i>Echinococcus granulosus</i> (Cestoda: Taeniidae). <i>Mitochondrial DNA</i> , 2014, 27, 1-2.	0.6	8
106	Electrodeposition of vanadium oxide-polyaniline composite nanowire electrodes for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10882-10888.	10.3	165
107	A New Benchmark Capacitance for Supercapacitor Anodes by Mixed-Valence Sulfur-Doped V <sub>6</sub> O <sub>13</sub> . <i>Advanced Materials</i> , 2014, 26, 5869-5875.	21.0	305
108	The complete mitochondrial genome of the scab mite <i>Psoroptes cuniculi</i> (Arthropoda: Arachnida) provides insights into Acari phylogeny. <i>Parasites and Vectors</i> , 2014, 7, 340.	2.5	37

#	ARTICLE	IF	CITATIONS
109	Polyaniline and Polypyrrole Pseudocapacitor Electrodes with Excellent Cycling Stability. Nano Letters, 2014, 14, 2522-2527.	9.1	688
110	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
111	Oridonin induces apoptosis and cell cycle arrest of gallbladder cancer cells via the mitochondrial pathway. BMC Cancer, 2014, 14, 217.	2.6	69
112	Improving the Cycling Stability of Metal-Nitride Supercapacitor Electrodes with a Thin Carbon Shell. Advanced Energy Materials, 2014, 4, 1300994.	19.5	217
113	Sequence Analysis of cytb Gene in Echinococcus granulosus from Western China. Korean Journal of Parasitology, 2014, 52, 205-209.	1.3	20
114	Tetrandrine induces apoptosis in gallbladder carcinoma in vitro. International Journal of Clinical Pharmacology and Therapeutics, 2014, 52, 900-905.	0.6	10
115	High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. Nano Letters, 2013, 13, 2628-2633.	9.1	691