Wan-Yu Tsai

List of Publications by Year
in descending order

24	1,705	471061 17	610482 24
papers	citations	h-index	g-index

24	24	24	2588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ and operando forceâ€based atomic force microscopy for probing local functionality in energy storage materials. Electrochemical Science Advances, 2022, 2, e2100038.	1.2	12
2	Ionically Active MXene Nanopore Actuators. Small, 2022, 18, e2105857.	5.2	9
3	Upcycling of semicrystalline polymers by compatibilization: mechanism and location of compatibilizers. RSC Advances, 2022, 12, 10886-10894.	1.7	10
4	Modified coal char materials with high rate performance for battery applications. Carbon, 2021, 172, 414-421.	5.4	21
5	Probing local electrochemistry via mechanical cyclic voltammetry curves. Nano Energy, 2021, 81, 105592.	8.2	23
6	Molten Salt Assisted Low-Temperature Electro-Catalytic Graphitization of Coal Chars. Journal of the Electrochemical Society, 2021, 168, 046504.	1.3	8
7	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. ACS Nano, 2021, 15, 15274-15284.	7.3	56
8	Effects of interlayer confinement and hydration on capacitive charge storage in birnessite. Nature Materials, 2021, 20, 1689-1694.	13.3	119
9	Understanding electrochemical cation insertion into prussian blue from electrode deformation and mass changes. Chemical Communications, 2021, 57, 6744-6747.	2.2	9
10	Nanoscale Mapping of Extrinsic Interfaces in Hybrid Solid Electrolytes. Joule, 2020, 4, 207-221.	11.7	85
11	Tracking ion intercalation into layered Ti₃C₂ MXene films across length scales. Energy and Environmental Science, 2020, 13, 2549-2558.	15.6	100
12	Machine learning-based multidomain processing for texture-based image segmentation and analysis. Applied Physics Letters, 2020, 116, .	1.5	19
13	Structure of the Electrical Double Layer at the Interface between an Ionic Liquid and Tungsten Oxide in Ion-Gated Transistors. Journal of Physical Chemistry Letters, 2020, 11, 3257-3262.	2.1	16
14	Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. ACS Nano, 2019, 13, 9735-9780.	7.3	32
15	Hysteretic order-disorder transitions of ionic liquid double layer structure on graphite. Nano Energy, 2019, 60, 886-893.	8.2	19
16	In Situ Electrochemical Dilatometry of Phosphate Anion Electrosorption. Environmental Science and Technology Letters, 2018, 5, 745-749.	3.9	19
17	Operando Atomic Force Microscopy Reveals Mechanics of Structural Water Driven Battery-to-Pseudocapacitor Transition. ACS Nano, 2018, 12, 6032-6039.	7.3	50
18	Outstanding room-temperature capacitance of biomass-derived microporous carbons in ionic liquid electrolyte. Electrochemistry Communications, 2017, 79, 5-8.	2.3	20

#	Article	IF	Citations
19	Graphene-like carbide derived carbon for high-power supercapacitors. Nano Energy, 2015, 12, 197-206.	8.2	114
20	In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. Nature Materials, 2015, 14, 812-819.	13.3	296
21	Electrochemical Quartz Crystal Microbalance (EQCM) Study of Ion Dynamics in Nanoporous Carbons. Journal of the American Chemical Society, 2014, 136, 8722-8728.	6.6	248
22	Outstanding performance of activated graphene based supercapacitors in ionic liquid electrolyte from â^'50 to 80Â°C. Nano Energy, 2013, 2, 403-411.	8.2	314
23	Ordered mesoporous silicon carbide-derived carbon for high-power supercapacitors. Electrochemistry Communications, 2013, 34, 109-112.	2.3	75
24	CuO nanowire synthesis catalyzed by a CoWP nanofilter. Acta Materialia, 2009, 57, 1570-1576.	3.8	31