

Wan-Yu Tsai

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,705
citations

471061

17
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610482

24
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24
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docs citations

24
times ranked

2588
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Outstanding performance of activated graphene based supercapacitors in ionic liquid electrolyte from 50 to 80°C. <i>Nano Energy</i> , 2013, 2, 403-411. | 8.2 | 314 |
| 2 | In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. <i>Nature Materials</i> , 2015, 14, 812-819. | 13.3 | 296 |
| 3 | Electrochemical Quartz Crystal Microbalance (EQCM) Study of Ion Dynamics in Nanoporous Carbons. <i>Journal of the American Chemical Society</i> , 2014, 136, 8722-8728. | 6.6 | 248 |
| 4 | Effects of interlayer confinement and hydration on capacitive charge storage in birnessite. <i>Nature Materials</i> , 2021, 20, 1689-1694. | 13.3 | 119 |
| 5 | Graphene-like carbide derived carbon for high-power supercapacitors. <i>Nano Energy</i> , 2015, 12, 197-206. | 8.2 | 114 |
| 6 | Tracking ion intercalation into layered Ti_3C_2 MXene films across length scales. <i>Energy and Environmental Science</i> , 2020, 13, 2549-2558. | 15.6 | 100 |
| 7 | Nanoscale Mapping of Extrinsic Interfaces in Hybrid Solid Electrolytes. <i>Joule</i> , 2020, 4, 207-221. | 11.7 | 85 |
| 8 | Ordered mesoporous silicon carbide-derived carbon for high-power supercapacitors. <i>Electrochemistry Communications</i> , 2013, 34, 109-112. | 2.3 | 75 |
| 9 | Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , 2021, 15, 15274-15284. | 7.3 | 56 |
| 10 | <i>Operando</i> Atomic Force Microscopy Reveals Mechanics of Structural Water Driven Battery-to-Pseudocapacitor Transition. <i>ACS Nano</i> , 2018, 12, 6032-6039. | 7.3 | 50 |
| 11 | Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2019, 13, 9735-9780. | 7.3 | 32 |
| 12 | CuO nanowire synthesis catalyzed by a CoWP nanofilter. <i>Acta Materialia</i> , 2009, 57, 1570-1576. | 3.8 | 31 |
| 13 | Probing local electrochemistry via mechanical cyclic voltammetry curves. <i>Nano Energy</i> , 2021, 81, 105592. | 8.2 | 23 |
| 14 | Modified coal char materials with high rate performance for battery applications. <i>Carbon</i> , 2021, 172, 414-421. | 5.4 | 21 |
| 15 | Outstanding room-temperature capacitance of biomass-derived microporous carbons in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2017, 79, 5-8. | 2.3 | 20 |
| 16 | In Situ Electrochemical Dilatometry of Phosphate Anion Electrosorption. <i>Environmental Science and Technology Letters</i> , 2018, 5, 745-749. | 3.9 | 19 |
| 17 | Hysteretic order-disorder transitions of ionic liquid double layer structure on graphite. <i>Nano Energy</i> , 2019, 60, 886-893. | 8.2 | 19 |
| 18 | Machine learning-based multidomain processing for texture-based image segmentation and analysis. <i>Applied Physics Letters</i> , 2020, 116, . | 1.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Structure of the Electrical Double Layer at the Interface between an Ionic Liquid and Tungsten Oxide in Ion-Gated Transistors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3257-3262. | 2.1 | 16 |
| 20 | In situ and operando force-based atomic force microscopy for probing local functionality in energy storage materials. <i>Electrochemical Science Advances</i> , 2022, 2, e2100038. | 1.2 | 12 |
| 21 | Upcycling of semicrystalline polymers by compatibilization: mechanism and location of compatibilizers. <i>RSC Advances</i> , 2022, 12, 10886-10894. | 1.7 | 10 |
| 22 | Understanding electrochemical cation insertion into prussian blue from electrode deformation and mass changes. <i>Chemical Communications</i> , 2021, 57, 6744-6747. | 2.2 | 9 |
| 23 | Ionically Active MXene Nanopore Actuators. <i>Small</i> , 2022, 18, e2105857. | 5.2 | 9 |
| 24 | Molten Salt Assisted Low-Temperature Electro-Catalytic Graphitization of Coal Chars. <i>Journal of the Electrochemical Society</i> , 2021, 168, 046504. | 1.3 | 8 |