

Ting-Hsiang Chang

List of Publications by Year in descending order

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40
papers

2,337
citations

186265

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315739

38
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docs citations

41
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic MXene Textures with Enhanced Light-to-Heat Conversion for Solar Steam Generation and Wearable Thermal Management. <i>Advanced Energy Materials</i> , 2019, 9, 1901687.	19.5	210
2	Stretchable electrochemical energy storage devices. <i>Chemical Society Reviews</i> , 2020, 49, 4466-4495.	38.1	209
3	Porphyrin-based metal-organic framework thin films for electrochemical nitrite detection. <i>Electrochemistry Communications</i> , 2015, 58, 51-56.	4.7	171
4	Controlled Crumpling of Two-Dimensional Titanium Carbide (MXene) for Highly Stretchable, Bendable, Efficient Supercapacitors. <i>ACS Nano</i> , 2018, 12, 8048-8059.	14.6	136
5	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 7229-7235.	21.0	134
6	Stretchable Graphene Pressure Sensors with Shar-Pei-like Hierarchical Wrinkles for Collision-Aware Surgical Robotics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10226-10236.	8.0	98
7	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30351-30361.	8.0	97
8	Enhanced Charge Collection in MOF-PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. <i>Advanced Science</i> , 2017, 4, 1700261.	11.2	95
9	Post metalation of solvothermally grown electroactive porphyrin metal-organic framework thin films. <i>Chemical Communications</i> , 2015, 51, 2414-2417.	4.1	94
10	An electrochromic device based on Prussian blue, self-immobilized vinyl benzyl viologen, and ferrocene. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 75-84.	6.2	78
11	Inkjet-printed porphyrinic metal-organic framework thin films for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11094-11102.	10.3	73
12	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4175-4184.	8.0	73
13	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , 2016, 6, 34319.	3.3	72
14	Multifunctionality and Mechanical Actuation of 2D Materials for Skin-Mimicking Capabilities. <i>Advanced Materials</i> , 2018, 30, e1802418.	21.0	72
15	Intercalation of Metal Ions into $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Electrodes for High-Areal-Capacitance Microsupercapacitors with Neutral Multivalent Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2003721.	14.9	61
16	Multi-color electrochromic devices based on phenyl and heptyl viologens immobilized with UV-cured polymer electrolyte. <i>Solar Energy Materials and Solar Cells</i> , 2018, 177, 75-81.	6.2	55
17	A high contrast solid-state electrochromic device based on nano-structural Prussian blue and poly(butyl viologen) thin films. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 35-41.	6.2	54
18	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. <i>Science Robotics</i> , 2019, 4, .	17.6	53

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19	Synthesis of MOF-derived Nanoporous Carbons with Different Particle Sizes for Supercapacitor Application. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2857-2862.	3.3	52
20	Synergistic Antimicrobial Capability of Magnetically Oriented Graphene Oxide Conjugated with Gold Nanoclusters. <i>Advanced Functional Materials</i> , 2019, 29, 1904603.	14.9	51
21	Heterogeneous, 3D Architecturing of 2D Titanium Carbide (MXene) for Microdroplet Manipulation and Voice Recognition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8392-8402.	8.0	44
22	Light-to-Heat Conversion: Biomimetic MXene Textures with Enhanced Light-to-Heat Conversion for Solar Steam Generation and Wearable Thermal Management (<i>Adv. Energy Mater.</i> 34/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970141.	19.5	43
23	Valence-Dependent Electrical Conductivity in a 3D Tetrahydroxyquinone-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 21243-21248.	13.7	39
24	Coral-like perovskite nanostructures for enhanced light-harvesting and accelerated charge extraction in perovskite solar cells. <i>Nano Energy</i> , 2019, 58, 138-146.	16.0	38
25	Crumpling and Unfolding of Montmorillonite Hybrid Nanocoatings as Stretchable Flame-Retardant Skin. <i>Small</i> , 2018, 14, e1800596.	10.0	36
26	An all-organic solid-state electrochromic device containing poly(vinylidene fluoride-co-hexafluoroisopropylidene) sulfone (PVDF-HFP) cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 606-612.	6.2	31
27	A panchromatic electrochromic device composed of Ru(II)/Fe(II)-based heterometallo-supramolecular polymer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7554-7562.	5.5	30
28	Tunable Magnetic Response in 2D Materials via Reversible Intercalation of Paramagnetic Ions. <i>Advanced Electronic Materials</i> , 2019, 5, 1900040.	5.1	28
29	Graphene Oxide-Enabled Synthesis of Metal Oxide Origamis for Soft Robotics. <i>ACS Nano</i> , 2019, 13, 5410-5420.	14.6	28
30	An electrochromic device composed of metallo-supramolecular polyelectrolyte containing Cu(I) and polyaniline-carbon nanotube. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 219-226.	6.2	17
31	Stretchable Ti ₃ C ₂ MXene microsupercapacitors with high areal capacitance and quasi-solid-state multivalent neutral electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4664-4672.	10.3	15
32	Incorporation of plastic crystal and transparent UV-cured polymeric electrolyte in a complementary electrochromic device. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 213-218.	6.2	11
33	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. <i>Small Science</i> , 2021, 1, 2000067.	9.9	11
34	Influence of ferrocyanide on the long-term stability of poly(butyl viologen) thin film based electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110012.	6.2	10
35	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel-Montmorillonite-Based Translucent Matrix. <i>Soft Robotics</i> , 2022, 9, 98-118.	8.0	9
36	High-Purity V ₂ O ₅ Nanosheets Synthesized from Gasification Waste: Flexible Energy Storage Devices and Environmental Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 0, ,	6.7	5

#	ARTICLE	IF	CITATIONS
37	Widely color-temperature low-luminosity-loss electrochromic-tuned white light-emitting diodes. <i>Optik</i> , 2020, 203, 163994.	2.9	1
38	Densely Packed and Highly Ordered Carbon Flower Particles for High Volumetric Performance. <i>Small Science</i> , 2021, 1, 2170018.	9.9	1
39	Biomimetic Stretchable Sensor Resembling Shar-Pei Crumples with 2D Materials towards Collaborative Robotic Minimally Invasive Procedures. , 2019, , .		0
40	Synergistic Antimicrobial Nanomaterials: Synergistic Antimicrobial Capability of Magnetically Oriented Graphene Oxide Conjugated with Gold Nanoclusters (<i>Adv. Funct. Mater.</i> 46/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970320.	14.9	0