

Min-Hsin Yeh

List of Publications by Year in descending order

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93
papers

7,139
citations

87401

40
h-index

62345

84
g-index

93
all docs

93
docs citations

93
times ranked

9166
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Designing ZIF-67 derived NiCo layered double hydroxides with 3D hierarchical structure for Enzyme-free electrochemical lactate monitoring in human sweat. <i>Chemical Engineering Journal</i> , 2022, 427, 131687. | 6.6 | 39 |
| 2 | Surface-engineered N-doped carbon nanotubes with B-doped graphene quantum dots: Strategies to develop highly-efficient noble metal-free electrocatalyst for online-monitoring dissolved oxygen biosensor. <i>Carbon</i> , 2022, 186, 406-415. | 5.4 | 36 |
| 3 | Self-powered molecular imprinted polymers-based triboelectric sensor for noninvasive monitoring lactate levels in human sweat. <i>Nano Energy</i> , 2022, 100, 107464. | 8.2 | 32 |
| 4 | Designing bimetallic Ni-based layered double hydroxides for enzyme-free electrochemical lactate biosensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130505. | 4.0 | 22 |
| 5 | Designing a spontaneously deriving NiFe-LDH from bimetallic MOF-74 as an electrocatalyst for oxygen evolution reaction in alkaline solution. <i>Chemical Engineering Journal</i> , 2021, 423, 130204. | 6.6 | 50 |
| 6 | Designing a hybrid type photoelectrochromic device with dual coloring modes for realizing ultrafast response/high optical contrast self-powered smart windows. <i>Nano Energy</i> , 2021, 90, 106575. | 8.2 | 17 |
| 7 | Boron and Nitrogen Codoped Multilayer Graphene as a Counter Electrode: A Combined Theoretical and Experimental Study on Dye-Sensitized Solar Cells under Ambient Light Conditions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24894-24901. | 1.5 | 9 |
| 8 | Electrochemical and Microstructural Investigations of PtFe Nanocompounds Synthesized by Atmospheric-Pressure Plasma Jet. <i>Journal of the Electrochemical Society</i> , 2020, 167, 056501. | 1.3 | 2 |
| 9 | Incorporating electrospun nanofibers of TEMPO-grafted PVDF-HFP polymer matrix in viologen-based electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110375. | 3.0 | 19 |
| 10 | Oxygen Plasma Activation of Carbon Nanotubes-Interconnected Prussian Blue Analogue for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42634-42643. | 4.0 | 44 |
| 11 | Transparent Cobalt Selenide/Graphene Counter Electrode for Efficient Dye-Sensitized Solar Cells with Co ²⁺ / ³⁺ -Based Redox Couple. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44597-44607. | 4.0 | 25 |
| 12 | Prussian Blue Analogue-Derived Metal Oxides as Electrocatalysts for Oxygen Evolution Reaction: Tailoring the Molar Ratio of Cobalt to Iron. <i>ACS Applied Energy Materials</i> , 2020, 3, 11752-11762. | 2.5 | 26 |
| 13 | Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. <i>ACS Nano</i> , 2020, 14, 9050-9058. | 7.3 | 88 |
| 14 | Large-area blade-coated organic solar cells processed from halogen-free solvent. <i>Organic Electronics</i> , 2019, 75, 105376. | 1.4 | 9 |
| 15 | Effect of trifluoromethyl substituents in benzyl-based viologen on the electrochromic performance: Optical contrast and stability. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110020. | 3.0 | 27 |
| 16 | Synthesis of Surfactant-Free and Morphology-Controllable Vanadium Diselenide for Efficient Counter Electrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25090-25099. | 4.0 | 29 |
| 17 | Designing a carbon nanotubes-interconnected ZIF-derived cobalt sulfide hybrid nanocage for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1479-1490. | 5.2 | 109 |
| 18 | Site Activity and Population Engineering of NiRu-Layered Double Hydroxide Nanosheets Decorated with Silver Nanoparticles for Oxygen Evolution and Reduction Reactions. <i>ACS Catalysis</i> , 2019, 9, 117-129. | 5.5 | 103 |

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|----|---|------|-----------|
| 19 | Platinum nanoparticles decorated graphene nanoribbon with eco-friendly unzipping process for electrochemical sensors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 566-574. | 2.7 | 18 |
| 20 | (Invited) Ultralight Triboelectric Nanogenerators for Portable Self-Charging Power Unit and Self-Powered Sensing Platform. <i>ECS Meeting Abstracts</i> , 2019, , . | 0.0 | 0 |
| 21 | A zeolitic imidazolate framework-derived ZnSe/N-doped carbon cube hybrid electrocatalyst as the counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5107-5118. | 5.2 | 63 |
| 22 | Robust and conductive MagnÃ©liÃ©Phase Ti4O7 decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst. <i>Nano Energy</i> , 2018, 47, 309-315. | 8.2 | 59 |
| 23 | Whirligig-inspired triboelectric nanogenerator with ultrahigh specific output as reliable portable instant power supply for personal health monitoring devices. <i>Nano Energy</i> , 2018, 47, 74-80. | 8.2 | 122 |
| 24 | Double-Wall TiO₂ Nanotubes for Dye-Sensitized Solar Cells: A Study of Growth Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3907-3915. | 3.2 | 29 |
| 25 | Boron-doped carbon nanotubes as metal-free electrocatalyst for dye-sensitized solar cells: Heteroatom doping level effect on tri-iodide reduction reaction. <i>Journal of Power Sources</i> , 2018, 375, 29-36. | 4.0 | 75 |
| 26 | Designing Novel Poly(oxyalkylene)-Segmented Ester-Based Polymeric Dispersants for Efficient TiO2 Photoanodes of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38394-38403. | 4.0 | 2 |
| 27 | A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, . | 9.9 | 573 |
| 28 | Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. <i>ACS Nano</i> , 2017, 11, 4475-4482. | 7.3 | 201 |
| 29 | Boron-doped carbon nanotubes with uniform boron doping and tunable dopant functionalities as an efficient electrocatalyst for dopamine oxidation reaction. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 288-297. | 4.0 | 37 |
| 30 | Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21002-21015. | 5.2 | 10 |
| 31 | Thermally Stable Boron-Doped Multiwalled Carbon Nanotubes as a Pt-free Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 537-546. | 3.2 | 44 |
| 32 | A Water-Proof Triboelectric-EM Hybrid Generator for Energy Harvesting in Harsh Environments. <i>Advanced Energy Materials</i> , 2016, 6, 1501593. | 10.2 | 243 |
| 33 | Rolling Friction Enhanced Free-Standing Triboelectric Nanogenerators and their Applications in Self-Powered Electrochemical Recovery Systems. <i>Advanced Functional Materials</i> , 2016, 26, 1054-1062. | 7.8 | 101 |
| 34 | Harvesting Low-Frequency (≤ 5 Hz) Irregular Mechanical Energy: A Possible Killer Application of Triboelectric Nanogenerator. <i>ACS Nano</i> , 2016, 10, 4797-4805. | 7.3 | 606 |
| 35 | All-in-One Shape-Adaptive Self-Charging Power Package for Wearable Electronics. <i>ACS Nano</i> , 2016, 10, 10580-10588. | 7.3 | 290 |
| 36 | Self-powered textile for wearable electronics by hybridizing fiber-shaped nanogenerators, solar cells, and supercapacitors. <i>Science Advances</i> , 2016, 2, e1600097. | 4.7 | 705 |

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|----|---|------|-----------|
| 37 | A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. <i>Science Advances</i> , 2016, 2, e1501624. | 4.7 | 274 |
| 38 | Triboelectrificationâ€Enabled Selfâ€Powered Detection and Removal of Heavy Metal Ions in Wastewater. <i>Advanced Materials</i> , 2016, 28, 2983-2991. | 11.1 | 204 |
| 39 | Harvesting Broad Frequency Band Blue Energy by a Triboelectricâ€Electromagnetic Hybrid Nanogenerator. <i>ACS Nano</i> , 2016, 10, 6526-6534. | 7.3 | 244 |
| 40 | High-efficiency ramie fiber degumming and self-powered degumming wastewater treatment using triboelectric nanogenerator. <i>Nano Energy</i> , 2016, 22, 548-557. | 8.2 | 132 |
| 41 | A Streaming Potential/Currentâ€Based Microfluidic Direct Current Generator for Selfâ€Powered Nanosystems. <i>Advanced Materials</i> , 2015, 27, 6482-6487. | 11.1 | 104 |
| 42 | Graphite with Different Structures as Catalysts for Counter Electrodes in Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 179, 211-219. | 2.6 | 49 |
| 43 | An Ultrarobust High-Performance Triboelectric Nanogenerator Based on Charge Replenishment. <i>ACS Nano</i> , 2015, 9, 5577-5584. | 7.3 | 135 |
| 44 | Facile Synthesis of Boron-doped Graphene Nanosheets with Hierarchical Microstructure at Atmosphere Pressure for Metal-free Electrochemical Detection of Hydrogen Peroxide. <i>Electrochimica Acta</i> , 2015, 172, 52-60. | 2.6 | 68 |
| 45 | Controlling Available Active Sites of Pt-Loaded TiO ₂ Nanotube-Imprinted Ti Plates for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3910-3919. | 4.0 | 14 |
| 46 | Morphological Influence of Polypyrrole Nanoparticles on the Performance of Dyeâ€Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 155, 263-271. | 2.6 | 42 |
| 47 | Blow-driven triboelectric nanogenerator as an active alcohol breath analyzer. <i>Nano Energy</i> , 2015, 16, 38-46. | 8.2 | 255 |
| 48 | Motion-Driven Electrochromic Reactions for Self-Powered Smart Window System. <i>ACS Nano</i> , 2015, 9, 4757-4765. | 7.3 | 158 |
| 49 | Self-Powered Triboelectric Nanosensor for Microfluidics and Cavity-Confined Solution Chemistry. <i>ACS Nano</i> , 2015, 9, 11056-11063. | 7.3 | 99 |
| 50 | Size effects of platinum nanoparticles on the electrocatalytic ability of the counter electrode in dye-sensitized solar cells. <i>Nano Energy</i> , 2015, 17, 241-253. | 8.2 | 44 |
| 51 | Self-Powered Electrochromic Smart Window Driven By Transparent Triboelectric Nanogenerators Via Harvesting Wind and Rain Energies. <i>ECS Meeting Abstracts</i> , 2015, , . | 0.0 | 0 |
| 52 | Dye-Sensitized Solar Cells with Reduced Graphene Oxide as the Counter Electrode Prepared By a Greenphotothermal Reduction Process. <i>ECS Meeting Abstracts</i> , 2015, , . | 0.0 | 0 |
| 53 | Synthesis of Boronâ€doped Multiâ€walled Carbon Nanotubes by an Ammoniaâ€assisted Substitution Reaction for Applying in Supercapacitors. <i>Energy Procedia</i> , 2014, 61, 1764-1767. | 1.8 | 18 |
| 54 | Bimetallic catalyst of PtIr nanoparticles with high electrocatalytic ability for hydrogen peroxide oxidation. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 55-60. | 4.0 | 34 |

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|----|---|-----|-----------|
| 73 | Dye-sensitized solar cells with low-cost catalytic films of polymer-loaded carbon black on their counter electrode. <i>RSC Advances</i> , 2013, 3, 5871. | 1.7 | 29 |
| 74 | Facile fabrication of PtNP/MWCNT nanohybrid films for flexible counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 3185. | 6.7 | 41 |
| 75 | A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2012, 22, 14727. | 6.7 | 46 |
| 76 | A novel 2,7-diaminofluorene-based organic dye for a dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2012, 215, 122-129. | 4.0 | 24 |
| 77 | Low-temperature flexible Ti/TiO ₂ photoanode for dye-sensitized solar cells with binder-free TiO ₂ paste. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 181-190. | 4.4 | 35 |
| 78 | A low-cost counter electrode of ITO glass coated with a graphene/Nafion [®] composite film for use in dye-sensitized solar cells. <i>Carbon</i> , 2012, 50, 4192-4202. | 5.4 | 77 |
| 79 | Enhanced performance of a flexible dye-sensitized solar cell with a composite semiconductor film of ZnO nanorods and ZnO nanoparticles. <i>Electrochimica Acta</i> , 2012, 62, 341-347. | 2.6 | 58 |
| 80 | Composite Films Based on Poly(3,4-ethylene dioxythiophene):Poly(styrene sulfonate) Conducting Polymer and TiC Nanoparticles as the Counter Electrodes for Flexible Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE01. | 0.8 | 8 |
| 81 | CO-assisted synthesis of finely size-controlled platinum nanoparticles. <i>Chemical Communications</i> , 2011, 47, 3864. | 2.2 | 17 |
| 82 | Synthesis of hexagonal ZnO clubs with opposite faces of unequal dimensions for the photoanode of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20999. | 1.3 | 13 |
| 83 | A composite catalytic film of PEDOT:PSS/TiN [®] NPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2011, 21, 19021. | 6.7 | 73 |
| 84 | Solid-state dye-sensitized solar cell with a charge transfer layer comprising two ionic liquids and a carbon material. <i>Journal of Materials Chemistry</i> , 2011, 21, 15471. | 6.7 | 28 |
| 85 | Metal-based flexible TiO ₂ photoanode with titanium oxide nanotubes as the underlayer for enhancement of performance of a dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2011, 57, 270-276. | 2.6 | 22 |
| 86 | Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. <i>Electrochimica Acta</i> , 2011, 57, 277-284. | 2.6 | 128 |
| 87 | A composite poly(3,3-diethyl-3,4-dihydro-2H-thieno-[3,4-b][1,4]-dioxepine) and Pt film as a counter electrode catalyst in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 6157-6164. | 2.6 | 29 |
| 88 | Structural and Electronic Effects of Carbon-Supported Pt _x Pd _{1-x} Nanoparticles on the Electrocatalytic Activity of the Oxygen-Reduction Reaction and on Methanol Tolerance. <i>Chemistry - A European Journal</i> , 2010, 16, 11064-11071. | 1.7 | 37 |
| 89 | Low-Temperature Flexible Photoanode and Net-Like Pt Counter Electrode for Improving the Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21808-21815. | 1.5 | 34 |
| 90 | Composite Films Based on Poly(3,4-ethylene dioxythiophene):Poly(styrene sulfonate) Conducting Polymer and TiC Nanoparticles as the Counter Electrodes for Flexible Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 0, 51, 10NE01. | 0.8 | 3 |

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|----|---|-----|-----------|
| 91 | Unraveling the Efficiency of Heteroatom-Doped Graphene Quantum Dots Incorporated Mof-Derived Bimetallic Layered Double Hydroxide Towards Oxygen Evolution Reaction. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 92 | Boron-Doped Graphene Quantum Dots Anchored Carbon Nanotubes as a Noble Metal-Free Electrocatalyst of Uric Acid for Wearable Sweat Sensor. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 93 | Boron-Doped Graphene Quantum Dots Anchored Carbon Nanotubes as a Noble Metal-Free Electrocatalyst of Uric Acid for Wearable Sweat Sensor. SSRN Electronic Journal, 0, , . | 0.4 | 0 |