

# Min-Hsin Yeh

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5339228/min-hsin-yeh-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

5,457  
citations

38  
h-index

73  
g-index

93  
ext. papers

6,287  
ext. citations

10  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
86	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> , <b>2022</b> , 186, 406-415	10.4	6
85	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> , <b>2022</b> , 427, 131687	14.7	2
84	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> , <b>2021</b> , 90, 106575	17.1	2
83	Designing bimetallic Ni-based layered double hydroxides for enzyme-free electrochemical lactate biosensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 346, 130505	8.5	1
82	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> , <b>2021</b> , 423, 130204	14.7	9
81	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> , <b>2021</b> , 125, 24894-24901	3.8	1
80	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> , <b>2020</b> , 3, 11752-11762	6.1	9
79	Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. <i>ACS Nano</i> , <b>2020</b> , 14, 9050-9058	16.7	62
78	Electrochemical and Microstructural Investigations of PtFe Nanocompounds Synthesized by Atmospheric-Pressure Plasma Jet. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 056501	3.9	2
77	Incorporating electrospun nanofibers of TEMPO-grafted PVDF-HFP polymer matrix in viologen-based electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 208, 110375	6.4	10
76	Oxygen Plasma Activation of Carbon Nanotubes-Interconnected Prussian Blue Analogue for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42634-42643	9.5	16
75	Transparent Cobalt Selenide/Graphene Counter Electrode for Efficient Dye-Sensitized Solar Cells with Co/-Based Redox Couple. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44597-44607	9.5	12
74	Effect of trifluoromethyl substituents in benzyl-based viologen on the electrochromic performance: Optical contrast and stability. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 200, 110020	6.4	7
73	Synthesis of Surfactant-Free and Morphology-Controllable Vanadium Diselenide for Efficient Counter Electrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25090-25099	9.5	16
72	Large-area blade-coated organic solar cells processed from halogen-free solvent. <i>Organic Electronics</i> , <b>2019</b> , 75, 105376	3.5	4
71	Designing a carbon nanotubes-interconnected ZIF-derived cobalt sulfide hybrid nanocage for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1479-1490	13	69
70	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> , <b>2019</b> , 9, 117-129	13.1	69

69	Platinum nanoparticles decorated graphene nanoribbon with eco-friendly unzipping process for electrochemical sensors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 96, 566-574	5.3	13
68	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> , <b>2018</b> , 6, 5107-5118	13	39
67	Robust and conductive Magn $\eta$ Phase Ti <sub>4</sub> O <sub>7</sub> decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst. <i>Nano Energy</i> , <b>2018</b> , 47, 309-315	17.1	34
66	Whirligig-inspired triboelectric nanogenerator with ultrahigh specific output as reliable portable instant power supply for personal health monitoring devices. <i>Nano Energy</i> , <b>2018</b> , 47, 74-80	17.1	94
65	Double-Wall TiO <sub>2</sub> Nanotubes for Dye-Sensitized Solar Cells: A Study of Growth Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3907-3915	8.3	21
64	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> , <b>2018</b> , 375, 29-36	8.9	46
63	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	399
62	Designing Novel Poly(oxyalkylene)-Segmented Ester-Based Polymeric Dispersants for Efficient TiO Photoanodes of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38394-38403	9.5	2
61	Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. <i>ACS Nano</i> , <b>2017</b> , 11, 4475-4482	16.7	164
60	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> , <b>2017</b> , 248, 288-297	8.5	25
59	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> , <b>2017</b> , 5, 21002-21015	13	9
58	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> , <b>2017</b> , 5, 537-546	8.3	30
57	All-in-One Shape-Adaptive Self-Charging Power Package for Wearable Electronics. <i>ACS Nano</i> , <b>2016</b> , 10, 10580-10588	16.7	230
56	Self-powered textile for wearable electronics by hybridizing fiber-shaped nanogenerators, solar cells, and supercapacitors. <i>Science Advances</i> , <b>2016</b> , 2, e1600097	14.3	558
55	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. <i>Science Advances</i> , <b>2016</b> , 2, e1501624	14.3	221
54	Triboelectrification-Enabled Self-Powered Detection and Removal of Heavy Metal Ions in Wastewater. <i>Advanced Materials</i> , <b>2016</b> , 28, 2983-91	24	161
53	Harvesting Broad Frequency Band Blue Energy by a Triboelectric-Electromagnetic Hybrid Nanogenerator. <i>ACS Nano</i> , <b>2016</b> , 10, 6526-34	16.7	184
52	High-efficiency ramie fiber degumming and self-powered degumming wastewater treatment using triboelectric nanogenerator. <i>Nano Energy</i> , <b>2016</b> , 22, 548-557	17.1	114

51	A Water-Proof Triboelectric-Electromagnetic Hybrid Generator for Energy Harvesting in Harsh Environments. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501593	21.8	193
50	Rolling Friction Enhanced Free-Standing Triboelectric Nanogenerators and their Applications in Self-Powered Electrochemical Recovery Systems. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1054-1062	15.6	74
49	Harvesting Low-Frequency (. <i>ACS Nano</i> , <b>2016</b> , 10, 4797-805	16.7	419
48	Blow-driven triboelectric nanogenerator as an active alcohol breath analyzer. <i>Nano Energy</i> , <b>2015</b> , 16, 38-46	17.1	217
47	Motion-driven electrochromic reactions for self-powered smart window system. <i>ACS Nano</i> , <b>2015</b> , 9, 4757-4765	16.5	129
46	Self-Powered Triboelectric Nanosensor for Microfluidics and Cavity-Confined Solution Chemistry. <i>ACS Nano</i> , <b>2015</b> , 9, 11056-63	16.7	86
45	Size effects of platinum nanoparticles on the electrocatalytic ability of the counter electrode in dye-sensitized solar cells. <i>Nano Energy</i> , <b>2015</b> , 17, 241-253	17.1	38
44	A Streaming Potential/Current-Based Microfluidic Direct Current Generator for Self-Powered Nanosystems. <i>Advanced Materials</i> , <b>2015</b> , 27, 6482-7	24	71
43	Graphite with Different Structures as Catalysts for Counter Electrodes in Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , <b>2015</b> , 179, 211-219	6.7	42
42	An ultrarobust high-performance triboelectric nanogenerator based on charge replenishment. <i>ACS Nano</i> , <b>2015</b> , 9, 5577-84	16.7	110
41	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> , <b>2015</b> , 172, 52-60	6.7	52
40	Controlling available active sites of Pt-loaded TiO <sub>2</sub> nanotube-imprinted Ti plates for efficient dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3910-9	9.5	14
39	Morphological Influence of Polypyrrole Nanoparticles on the Performance of Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , <b>2015</b> , 155, 263-271	6.7	39
38	Dye-sensitized solar cells with reduced graphene oxide as the counter electrode prepared by a green photothermal reduction process. <i>ChemPhysChem</i> , <b>2014</b> , 15, 1175-81	3.2	53
37	Insights into the co-sensitizer adsorption kinetics for complementary organic dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2014</b> , 247, 906-914	8.9	50
36	Study on Oxidation State Dependent Electrocatalytic Ability for I <sup>2</sup> /I <sup>-</sup> Redox Reaction of Reduced Graphene Oxides. <i>Electroanalysis</i> , <b>2014</b> , 26, 147-155	3	5
35	Surface modification of TiO <sub>2</sub> nanotube arrays with Y <sub>2</sub> O <sub>3</sub> barrier layer: controlling charge recombination dynamics in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8281-8287	13	15
34	A coral-like film of Ni@NiS with core-shell particles for the counter electrode of an efficient dye-sensitized solar cell. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5816-5824	13	66

33	Synthesis of a novel amphiphilic polymeric ionic liquid and its application in quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20814-20822	13	27
32	Nanocomposite Graphene/Pt Electrocatalyst as Economical Counter Electrode for Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , <b>2014</b> , 1, 416-425	4.3	34
31	Carbonaceous allotropes modified ionic liquid electrolytes for efficient quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2014</b> , 130, 587-593	6.7	11
30	Multiwalled Carbon [email protected] Graphene Oxide Nanoribbon as the Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16626-16634	3.8	66
29	Zinc oxide-based dye-sensitized solar cells with a ruthenium dye containing an alkyl bithiophene group. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 1-9	8.9	28
28	Synthesis of Boron-doped Multi-walled Carbon Nanotubes by an Ammonia-assisted Substitution Reaction for Applying in Supercapacitors. <i>Energy Procedia</i> , <b>2014</b> , 61, 1764-1767	2.3	15
27	Bimetallic catalyst of PtIr nanoparticles with high electrocatalytic ability for hydrogen peroxide oxidation. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 190, 55-60	8.5	28
26	A novel core-shell multi-walled carbon nanotube@graphene oxide nanoribbon heterostructure as a potential supercapacitor material. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11237	13	80
25	Flexible dye-sensitized solar cells with one-dimensional ZnO nanorods as electron collection centers in photoanodes. <i>Electrochimica Acta</i> , <b>2013</b> , 88, 421-428	6.7	24
24	Preparing core-shell structure of ZnO@TiO <sub>2</sub> nanowires through a simple dipping-in-situ hydrolyzation process as the photoanode for dye-sensitized solar cells. <i>Nano Energy</i> , <b>2013</b> , 2, 609-621	17.1	26
23	Highly ordered TiO <sub>2</sub> nanotube stamps on Ti foils: Synthesis and application for all flexible dye-sensitized solar cells. <i>Electrochemistry Communications</i> , <b>2013</b> , 37, 71-75	5.1	14
22	A composite film of TiS <sub>2</sub> /PEDOT:PSS as the electrocatalyst for the counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14888	13	54
21	High performance CdS quantum-dot-sensitized solar cells with Ti-based ceramic materials as catalysts on the counter electrode. <i>Journal of Power Sources</i> , <b>2013</b> , 237, 141-148	8.9	32
20	ZnO nanowire/nanoparticles composite films for the photoanodes of quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2013</b> , 88, 35-43	6.7	38
19	Improved performance of dye-sensitized solar cells using TiO <sub>2</sub> nanotubes infiltrated by TiO <sub>2</sub> nanoparticles using a dipping-in-situ hydrolysis process. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 535-543	8.9	19
18	Dye-sensitized solar cells with low-cost catalytic films of polymer-loaded carbon black on their counter electrode. <i>RSC Advances</i> , <b>2013</b> , 3, 5871	3.7	28
17	Enhanced performance of a flexible dye-sensitized solar cell with a composite semiconductor film of ZnO nanorods and ZnO nanoparticles. <i>Electrochimica Acta</i> , <b>2012</b> , 62, 341-347	6.7	57
16	Facile fabrication of PtNP/MWCNT nanohybrid films for flexible counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3185		40

15	A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14727		44
14	A novel 2,7-diaminofluorene-based organic dye for a dye-sensitized solar cell. <i>Journal of Power Sources</i> , <b>2012</b> , 215, 122-129	8.9	24
13	Low-temperature flexible Ti/TiO <sub>2</sub> photoanode for dye-sensitized solar cells with binder-free TiO <sub>2</sub> paste. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2012</b> , 20, 181-190	6.8	28
12	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> , <b>2012</b> , 50, 4192-4202	10.4	71
11	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> , <b>2012</b> , 51, 10NE01	1.4	8
10	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> , <b>2011</b> , 13, 20999-1008	3.6	11
9	A composite catalytic film of PEDOT:PSS/TiN@PVPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 19021		68
8	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> , <b>2011</b> , 21, 15471		27
7	Metal-based flexible TiO <sub>2</sub> photoanode with titanium oxide nanotubes as the underlayer for enhancement of performance of a dye-sensitized solar cell. <i>Electrochimica Acta</i> , <b>2011</b> , 57, 270-276	6.7	21
6	Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. <i>Electrochimica Acta</i> , <b>2011</b> , 57, 277-284	6.7	111
5	CO-assisted synthesis of finely size-controlled platinum nanoparticles. <i>Chemical Communications</i> , <b>2011</b> , 47, 3864-6	5.8	12
4	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> , <b>2011</b> , 56, 6157-6164	6.7	26
3	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> , <b>2010</b> , 114, 21808-21815	3.8	30
2	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> , <b>2010</b> , 16, 11064-71	4.8	36
1	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> , 51, 10NE01	1.4	3