

# Chih-Hung Tsai

## List of Publications by Year in Descending Order

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

63

papers

1,493

citations

22

h-index

37

g-index

65

ext. papers

1,627

ext. citations

4.7

avg, IF

4.47

L-index

#	Paper	IF	Citations
63	The realization of nipip HIT photodetectors with an optimized thickness of intrinsic a-Si:H. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 144, 106590	4.3	
62	Comparative study on the effect of annealing temperature on sol-gel-derived nickel oxide thin film as hole transport layers for inverted perovskite solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 8157-8166	2.1	3
61	Combustion Processed Nickel Oxide and Zinc Doped Nickel Oxide Thin Films as a Hole Transport Layer for Perovskite Solar Cells. <i>Coatings</i> , <b>2021</b> , 11, 627	2.9	5
60	Enhancing charge transport performance of perovskite solar cells by using reduced graphene oxide-cysteine/nanogold hybrid material in the active layer. <i>FlatChem</i> , <b>2021</b> , 28, 100254	5.1	5
59	Fast-switching electrochromic smart windows based on NiO-nanorods counter electrode. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 231, 111306	6.4	8
58	A multifunctional Ni-doped iron pyrite/reduced graphene oxide composite as an efficient counter electrode for DSSCs and as a non-enzymatic hydrogen peroxide electrochemical sensor. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8516-8527	4.3	9
57	A frontier Zn- and N-rich complex grafted onto reduced graphene oxide for the electrocatalysis of dye-sensitized solar cells. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9035-9047	4.3	1
56	Increasing the Efficiency of Dye-Sensitized Solar Cells by Adding Nickel Oxide Nanoparticles to Titanium Dioxide Working Electrodes. <i>Coatings</i> , <b>2020</b> , 10, 195	2.9	6
55	Investigation of the Effects of Various Organic Solvents on the PCBM Electron Transport Layer of Perovskite Solar Cells. <i>Coatings</i> , <b>2020</b> , 10, 237	2.9	4
54	Intriguing field-effect-transistor performance of two-dimensional layered and crystalline CrI <sub>3</sub> . <i>Materials Today Physics</i> , <b>2020</b> , 12, 100174	8	10
53	Dihydrophenazine-based double-anchoring dye for dye-sensitized solar cells. <i>Journal of the Chinese Chemical Society</i> , <b>2020</b> , 67, 361-369	1.5	1
52	A study of novel macrocyclic copper complex/graphene-based composite materials for counter electrodes of dye-sensitized solar cells. <i>Journal of the Chinese Chemical Society</i> , <b>2019</b> , 66, 996-1007	1.5	3
51	Efficiency evaluation of a hybrid miniaturized concentrated photovoltaic for harvesting direct/diffused solar light. <i>Journal of Optics (United Kingdom)</i> , <b>2019</b> , 21, 035901	1.7	0
50	Synthesis of reduced graphene oxide/macrocylic ytterbium complex nanocomposites and their application in the counter electrodes of dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2019</b> , 64, 166-175	3.5	9
49	Adding graphene nanosheets in liquid electrolytes to improve the efficiency of dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 207, 154-160	4.4	9
48	Fabrication of reduced graphene oxide/macrocylic cobalt complex nanocomposites as counter electrodes for Pt-free dye-sensitized solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 434, 412-422	6.7	24
47	Preparation of reduced graphene oxide/macrocylic manganese complex composite materials as counter electrodes in dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2018</b> , 52, 51-60	3.5	18

46	CuO and CuO/Graphene Nanostructured Thin Films as Counter Electrodes for Pt-Free Dye-Sensitized Solar Cells. <i>Coatings</i> , <b>2018</b> , 8, 21	2.9	27
45	Investigation of Electrochemically Deposited and Chemically Reduced Platinum Nanostructured Thin Films as Counter Electrodes in Dye-Sensitized Solar Cells. <i>Coatings</i> , <b>2018</b> , 8, 56	2.9	3
44	Enhancing the efficiency of quasi-solid-state dye-sensitized solar cells by adding bis(trifluoromethane)sulfonimide lithium salt and camphorsulfonic acid to gel-based electrolytes. <i>Materials Research Bulletin</i> , <b>2018</b> , 107, 87-93	5.1	3
43	Improving the performance of perovskite solar cells by adding 1,8-diiodooctane in the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite layer. <i>Solar Energy</i> , <b>2018</b> , 176, 178-185	6.8	17
42	Reduced graphene oxide/macrocyclic iron complex hybrid materials as counter electrodes for dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 495, 111-121	9.3	24
41	Covalent bond-grafted soluble poly(o-methoxyaniline)-graphene oxide composite materials fabricated as counter electrodes of dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2017</b> , 42, 209-220	3.5	16
40	High-efficiency counter electrodes using graphene hybrid with a macrocyclic nickel complex for dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2016</b> , 31, 207-216	3.5	22
39	Highly Twisted Dye Anchoring D-πA Sensitizers for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27832-27842	9.5	23
38	Poly(o-methoxyaniline) doped with an organic acid as cost-efficient counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 791-801	6.7	18
37	Enhancing the efficiency of dye-sensitized solar cells by adding diatom frustules into TiO <sub>2</sub> working electrodes. <i>Applied Surface Science</i> , <b>2015</b> , 347, 64-72	6.7	13
36	Novel Semiconductor-Liquid Heterojunction Solar Cells Based on Cuprous Oxide and Iodine Electrolyte. <i>Electrochimica Acta</i> , <b>2015</b> , 167, 112-118	6.7	2
35	Enhancing the Efficiency and Charge Transport Characteristics of Dye-Sensitized Solar Cells by Adding Graphene Nanosheets to TiO <sub>2</sub> Working Electrodes. <i>Electrochimica Acta</i> , <b>2015</b> , 165, 356-364	6.7	15
34	Investigation of graphene nanosheets as counter electrodes for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2015</b> , 17, 57-65	3.5	26
33	Spontaneous Formation of Nanofibrillar and Nanoporous Structures in High-Conductivity Conducting Polymers and Applications for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401738	21.8	16
32	Optical properties of dyes affected by accelerating UV light exposure. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 09MF03	1.4	1
31	Investigation of Coral-Like Cu <sub>2</sub> O Nano/Microstructures as Counter Electrodes for Dye-Sensitized Solar Cells. <i>Materials</i> , <b>2015</b> , 8, 5715-5729	3.5	15
30	Novel organic dyes containing N-bridged oligothiophene coplanar cores for dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2015</b> , 18, 8-16	3.5	17
29	Porphyryns for efficient dye-sensitized solar cells covering the near-IR region. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 991-999	13	69

28	O <sub>2</sub> /HMDSO-Plasma-Deposited Organic/Inorganic Hybrid Film for Gate Dielectric of MgZnO Thin-Film Transistor. <i>Plasma Processes and Polymers</i> , <b>2014</b> , 11, 89-95	3.4	15
27	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11382-11390	13	37
26	Indolo[2,3-b]carbazole synthesized from a double-intramolecular Buchwald-Hartwig reaction: its application for a dianchor DSSC organic dye. <i>Organic Letters</i> , <b>2014</b> , 16, 3176-9	6.2	40
25	Back Cover: Plasma Process. Polym. 12014. <i>Plasma Processes and Polymers</i> , <b>2014</b> , 11, 100-100	3.4	
24	Regioisomeric effects on the electronic features of indenothiophene-bridged D- $\pi$ -A DSSC sensitizers. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 16574-82	4.8	21
23	Efficient gel-state dye-sensitized solar cells adopting polymer gel electrolyte based on poly(methyl methacrylate). <i>Organic Electronics</i> , <b>2013</b> , 14, 3131-3137	3.5	28
22	Novel three-layer TiO <sub>2</sub> nanoparticle stacking architecture for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2013</b> , 14, 2866-2874	3.5	15
21	Light Outcoupling in Organic Light-Emitting Devices <b>2013</b> , 541-574		
20	Influences of Stacking Architectures of TiO <sub>2</sub> Nanoparticle Layers on Characteristics of Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-12	3.2	2
19	Charge separation in donor-acceptor spiro compounds at metal and metal oxide surfaces investigated by surface photovoltage. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 5158-63	1.3	2
18	Influences of textures in Pt counter electrode on characteristics of dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2012</b> , 13, 199-205	3.5	29
17	Nanoporous platinum counter electrodes by glancing angle deposition for dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2012</b> , 13, 856-863	3.5	16
16	Functionalizing organic dye with cross-linked electrolyte-blocking shell as a new strategy for improving DSSC efficiency. <i>RSC Advances</i> , <b>2012</b> , 2, 3722	3.7	9
15	A novel amine-free dianchoring organic dye for efficient dye-sensitized solar cells. <i>Organic Letters</i> , <b>2012</b> , 14, 6338-41	6.2	56
14	Nanostructured platinum counter electrodes by self-assembled nanospheres for dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2012</b> , 13, 1865-1872	3.5	14
13	2,1,3-Benzothiadiazole-containing donor-acceptor-acceptor dyes for dye-sensitized solar cells. <i>Tetrahedron</i> , <b>2012</b> , 68, 7509-7516	2.4	38
12	Photoinduced charge separation in donor-acceptor spiro compounds at metal and metal oxide surfaces: application in dye-sensitized solar cell. <i>RSC Advances</i> , <b>2012</b> , 2, 4869	3.7	21
11	Comparative study of spectral and morphological properties of blends of P3HT with PCBM and ICBA. <i>Organic Electronics</i> , <b>2012</b> , 13, 2333-2341	3.5	29

10	Efficient organic DSSC sensitizers bearing an electron-deficient pyrimidine as an effective spacer. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5950		99
9	High-frequency polymer diode rectifiers for flexible wireless power-transmission sheets. <i>Organic Electronics</i> , <b>2011</b> , 12, 1777-1782	3.5	44
8	Influences of textures in fluorine-doped tin oxide on characteristics of dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2011</b> , 12, 2003-2011	3.5	29
7	Organic dyes containing a coplanar indacenodithiophene bridge for high-performance dye-sensitized solar cells. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8977-85	4.2	75
6	Polarized phosphorescent organic light-emitting devices adopting mesogenic host-guest systems. <i>Organic Electronics</i> , <b>2011</b> , 12, 15-21	3.5	40
5	Organic dyes containing coplanar diphenyl-substituted dithienosilole core for efficient dye-sensitized solar cells. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 4778-85	4.2	190
4	Utilizing surface plasmon polariton mediated energy transfer for tunable double-emitting organic light-emitting devices. <i>Organic Electronics</i> , <b>2010</b> , 11, 397-406	3.5	23
3	Characterizing coherence lengths of organic light-emitting devices using Newton's rings apparatus. <i>Organic Electronics</i> , <b>2010</b> , 11, 439-444	3.5	11
2	Efficient green coumarin dopants for organic light-emitting devices. <i>Organic Letters</i> , <b>2004</b> , 6, 1241-4	6.2	125
1	High-power angled broad-area 1.3- $\mu\text{m}$ laser diodes with good beam quality. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 2412-2414	2.2	14