

Hsien-Hsin Chou

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.

46
papers

2,596
citations

29
h-index

47
g-index

47
ext. papers

2,739
ext. citations

7.5
avg, IF

4.85
L-index

#	Paper	IF	Citations
46	Anthracene Organic Sensitizer with Dual Anchors for Efficient and Robust Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5479-5486	6.1	9
45	Porphyrin-Based Simple and Practical Dopant-Free Hole-Transporting Materials for Efficient Perovskite Solar Cells Using TiO ₂ Semiconductors. <i>Solar Rrl</i> , 2020 , 4, 2000119	7.1	3
44	-Butylpyridine Coordination with [Cu(dmp)] Redox Couple and Its Connection to the Stability of the Dye-Sensitized Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5812-5819	9.5	19
43	Thermal and angular dependence of next-generation photovoltaics under indoor lighting. <i>Progress in Photovoltaics: Research and Applications</i> , 2020 , 28, 111-121	6.8	8
42	Porphyrin Dimers as Hole-Transporting Layers for High-Efficiency and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 1620-1626	20.1	44
41	Synthesis and Characterization of Novel β Bis(N, N-diarylamino)-Substituted Porphyrin for Dye-Sensitized Solar Cells under 1 sun and Dim Light Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39970-39982	9.5	24
40	New Acetylene-Bridged 9,10-Conjugated Anthracene Sensitizers: Application in Outdoor and Indoor Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700032	21.8	114
39	First-Principle Determination of Electronic Coupling and Prediction of Charge Recombination Rates in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 983-992	3.8	14
38	Structurally Simple and Easily Accessible Perylenes for Dye-Sensitized Solar Cells Applicable to Both 1 Sun and Dim-Light Environments. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37786-37796	9.5	25
37	Zinc Porphyrin β ethynylaniline Conjugates as Novel Hole-Transporting Materials for Perovskite Solar Cells with Power Conversion Efficiency of 16.6%. <i>ACS Energy Letters</i> , 2016 , 1, 956-962	20.1	73
36	A feasible scalable porphyrin dye for dye-sensitized solar cells under one sun and dim light environments. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11878-11887	13	68
35	Naphtho[2,3-c][1,2,5]thiadiazole and 2H-Naphtho[2,3-d][1,2,3]triazole-Containing D-A- β A Conjugated Organic Dyes for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6117-26	9.5	32
34	Influence of Phenylethynylene of Push-Pull Zinc Porphyrins on the Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3418-27	9.5	45
33	High-performance dye-sensitized solar cells based on phenothiazine dyes containing double anchors and thiophene spacers. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 357-66	4.5	71
32	Dye-sensitized solar cells based on (donor- β acceptor) ₂ dyes with dithiafulvalene as the donor. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1933-42	4.5	13
31	Y-shaped metal-free D(A) ₂ sensitizers for high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3092	13	75
30	Synthesis, optical and electrochemical properties of pyridal[2,1,3]thiadiazole based organic dyes for dye sensitized solar cells. <i>Organic Electronics</i> , 2014 , 15, 378-390	3.5	38

29	Incorporating a new 2H-[1,2,3]triazolo[4,5-c]pyridine moiety to construct D-A- π organic sensitizers for high performance solar cells. <i>Organic Letters</i> , 2014 , 16, 3052-5	6.2	41
28	Organic dyes incorporating the dithieno[3,4-b:4',3':5,6]benzo[1,2-c]furan moiety for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22612-21	9.5	29
27	A remarkable enhancement of efficiency by co-adsorption with CDCA on the bithiazole-based dye-sensitized solar cells. <i>Organic Electronics</i> , 2013 , 14, 2546-2554	3.5	27
26	2,6-Conjugated anthracene sensitizers for high-performance dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 2477	35.4	83
25	Benzotriazole-containing D- π conjugated organic dyes for dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 809-16	4.5	51
24	Electron injection in TiO ₂ films and quasi-solid state solar cells sensitized with a dipolar fluorene organic dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 251, 18-24	4.7	9
23	Dipolar organic pyridyl dyes for dye-sensitized solar cell applications. <i>Tetrahedron</i> , 2012 , 68, 767-773	2.4	28
22	Squaraine-arylamine sensitizers for highly efficient p-type dye-sensitized solar cells. <i>Organic Letters</i> , 2012 , 14, 4726-9	6.2	74
21	Benzothiadiazole-containing donor-acceptor-acceptor type organic sensitizers for solar cells with ZnO photoanodes. <i>Chemical Communications</i> , 2012 , 48, 12071-3	5.8	31
20	High-performance dye-sensitized solar cells based on 5,6-bis-hexyloxy-benzo[2,1,3]thiadiazole. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10929		76
19	Coplanar indenofluorene-based organic dyes for dye-sensitized solar cells. <i>Tetrahedron</i> , 2012 , 68, 7755-7762		21
18	Dihydrophenanthrene-based metal-free dyes for highly efficient cosensitized solar cells. <i>Organic Letters</i> , 2012 , 14, 3612-5	6.2	38
17	Recent developments in molecule-based organic materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8734		337
16	BODIPY dyes with π -conjugation and their applications for high-efficiency inverted small molecule solar cells. <i>Chemical Communications</i> , 2012 , 48, 8913-5	5.8	86
15	Naphthyl and thienyl units as bridges for metal-free dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1074-84	4.5	27
14	Thieno[3,4-b]thiophene-based organic dyes for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2012 , 18, 5430-7	4.8	40
13	Novel Organic Sensitizers Containing 2,6-Difunctionalized Anthracene Unit for Dye Sensitized Solar Cells. <i>Polymers</i> , 2012 , 4, 1443-1461	4.5	21
12	Arylamine-based dyes for p-type dye-sensitized solar cells. <i>Organic Letters</i> , 2011 , 13, 4930-3	6.2	79

11	Heteroleptic ruthenium sensitizers that contain an ancillary bipyridine ligand tethered with hydrocarbon chains for efficient dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2011 , 17, 6781-8	4.8	42
10	Organic dyes incorporating the dithieno[3,2-b:2',3'-d]thiophene moiety for efficient dye-sensitized solar cells. <i>Organic Letters</i> , 2010 , 12, 16-9	6.2	108
9	Dipolar compounds containing fluorene and a heteroaromatic ring as the conjugating bridge for high-performance dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2010 , 16, 3184-93	4.8	123
8	Synthesis and characterization of naphthalene diimide (NDI)-based near infrared chromophores with two-photon absorbing properties. <i>Tetrahedron</i> , 2010 , 66, 8629-8634	2.4	35
7	Reactions of ruthenium vinylidene and acetylide complexes containing trichloromethyl groups: preparation of a cyclobutenonyl complex by solid-state photolysis. <i>Chemistry - A European Journal</i> , 2009 , 15, 3221-9	4.8	10
6	Synthesis and characterization of cyclometalated iridium(III) complexes containing pyrimidine-based ligands. <i>Journal of Organometallic Chemistry</i> , 2009 , 694, 2757-2769	2.3	17
5	Dibenzo[f,h]thieno[3,4-b] quinoxaline-based small molecules for efficient bulk-heterojunction solar cells. <i>Organic Letters</i> , 2009 , 11, 4898-901	6.2	48
4	Organic dyes containing furan moiety for high-performance dye-sensitized solar cells. <i>Organic Letters</i> , 2009 , 11, 97-100	6.2	190
3	Organic Dyes Containing a Cyanovinyl Entity in the Spacer for Solar Cells Applications. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19739-19747	3.8	83
2	Reactions of Ruthenium Acetylide and Vinylidene Complexes Containing a 2-Pyridyl Group. <i>Organometallics</i> , 2008 , 27, 5212-5220	3.8	12
1	Application of Cysteine Monolayers for Electrochemical Determination of Sub-ppb Copper(II). <i>Analytical Chemistry</i> , 1999 , 71, 1549-1552	7.8	155