

Hoi Nok Tsao

List of Publications by Year in descending order

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35
papers

10,148
citations

236612

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docs citations

37
times ranked

11377
citing authors

#	ARTICLE	IF	CITATIONS
1	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)-Based Redox Electrolyte Exceed 12 Percent Efficiency. <i>Science</i> , 2011, 334, 629-634.	6.0	5,637
2	Ultrahigh Mobility in Polymer Field-Effect Transistors by Design. <i>Journal of the American Chemical Society</i> , 2011, 133, 2605-2612.	6.6	671
3	Field-Effect Transistors Based on a Benzothiadiazole-Cyclopentadithiophene Copolymer. <i>Journal of the American Chemical Society</i> , 2007, 129, 3472-3473.	6.6	485
4	The Influence of Morphology on High-Performance Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2009, 21, 209-212.	11.1	401
5	Patterned Graphene Electrodes from Solution-Processed Graphite Oxide Films for Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2009, 21, 3488-3491.	11.1	344
6	Cyclopentadithiophene Bridged Donor-Acceptor Dyes Achieve High Power Conversion Efficiencies in Dye-Sensitized Solar Cells Based on the tris-Cobalt Bipyridine Redox Couple. <i>ChemSusChem</i> , 2011, 4, 591-594.	3.6	327
7	A Stable Blue Photosensitizer for Color Palette of Dye-Sensitized Solar Cells Reaching 12.6% Efficiency. <i>Journal of the American Chemical Society</i> , 2018, 140, 2405-2408.	6.6	270
8	Improving polymer transistor performance via morphology control. <i>Chemical Society Reviews</i> , 2010, 39, 2372.	18.7	238
9	Dithieno[2,3-d;2,3'-d']benzo[1,2-b;4,5-b']dithiophene (DTBDT) as Semiconductor for High-Performance, Solution-Processed Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2009, 21, 213-216.	11.1	237
10	Tailoring Structure-Property Relationships in Dithienosilole-Benzothiadiazole Donor-Acceptor Copolymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 7514-7515.	6.6	219
11	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. <i>Energy and Environmental Science</i> , 2011, 4, 4921.	15.6	196
12	Self-Assembly of Positively Charged Discotic PAHs: From Nanofibers to Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5417-5420.	7.2	133
13	Synthetic Principles Directing Charge Transport in Low-Band-Gap Dithienosilole-Benzothiadiazole Copolymers. <i>Journal of the American Chemical Society</i> , 2012, 134, 8944-8957.	6.6	124
14	Benzo[1,2-b:4,5-b']bis(benzothiophene) as solution processible organic semiconductor for field-effect transistors. <i>Chemical Communications</i> , 2008, , 1548.	2.2	95
15	Fine-tuning the Electronic Structure of Organic Dyes for Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2012, 14, 4330-4333.	2.4	95
16	From Ambipolar to Unipolar Behavior in Discotic Dye Field-Effect Transistors. <i>Advanced Materials</i> , 2008, 20, 2715-2719.	11.1	83
17	Avoiding Diffusion Limitations in Cobalt(III/II)-Tris(2,2'-bipyridine)-Based Dye-Sensitized Solar Cells by Tuning the Mesoporous TiO ₂ Film Properties. <i>ChemPhysChem</i> , 2012, 13, 2976-2981.	1.0	75
18	High-Performance Solution-Deposited Ambipolar Organic Transistors Based on Terrylene Diimides. <i>Chemistry of Materials</i> , 2010, 22, 2120-2124.	3.2	69

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19	Extended π - π Bridge in Organic Dye-Sensitized Solar Cells: the Longer, the Better?. <i>Advanced Energy Materials</i> , 2014, 4, 1301485.	10.2	61
20	Extrinsic Corrugation-Assisted Mechanical Exfoliation of Monolayer Graphene. <i>Advanced Materials</i> , 2010, 22, 5374-5377.	11.1	55
21	Organic Sensitizers with Bridged Triphenylamine Donor Units for Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 200-205.	10.2	49
22	Miscellaneous and Pespicious: Hybrid Halide Perovskite Materials Based Photodetectors and Sensors. <i>Advanced Optical Materials</i> , 2020, 8, 2001095.	3.6	46
23	Influence of Structural Variations in Push-Pull Zinc Porphyrins on Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 1107-1113.	3.6	39
24	High Open-Circuit Voltages: Evidence for a Sensitizer-Induced TiO ₂ Conduction Band Shift in Ru(II)-Dye Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013, 25, 4497-4502.	3.2	37
25	Highly Stable Dye-Sensitized Solar Cells Based on Novel 1,2,3-Triazolium Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13571-13577.	4.0	33
26	Solid-State Organization and Ambipolar Field-Effect Transistors of Benzothiadiazole-Cyclopentadithiophene Copolymer with Long Branched Alkyl Side Chains. <i>Polymers</i> , 2013, 5, 833-846.	2.0	19
27	Bistriphenylamine-based organic sensitizers with high molar extinction coefficients for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 6209.	1.7	18
28	Enhancing the Stability of Porphyrin Dye-Sensitized Solar Cells by Manipulation of Electrolyte Additives. <i>ChemSusChem</i> , 2015, 8, 255-259.	3.6	18
29	Organic dyes containing fused acenes as building blocks: Optical, electrochemical and photovoltaic properties. <i>Chinese Chemical Letters</i> , 2018, 29, 289-292.	4.8	18
30	Dithieno[2,3-d;2',3'-d']benzo[1,2-b;4,5-b']dithiophene based organic sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 54130-54133.	1.7	16
31	Improving solution-processed n-type organic field-effect transistors by transfer-printed metal/semiconductor and semiconductor/semiconductor heterojunctions. <i>Organic Electronics</i> , 2014, 15, 1884-1889.	1.4	16
32	En Route to Wide Area Emitting Organic Light-Emitting Transistors for Intrinsic Drive-Integrated Display Applications: A Comprehensive Review. <i>Advanced Functional Materials</i> , 2021, 31, 2105506.	7.8	10
33	Illumination Time Dependent Learning in Dye Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36602-36607.	4.0	7
34	A Computer Vision Sensor for Efficient Object Detection Under Varying Lighting Conditions. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100055.	3.3	5
35	Converting Solar Cells to Photocapacitors without the Incorporation of Additional Capacitive Components. <i>ACS Applied Energy Materials</i> , 2022, 5, 6746-6753.	2.5	2