Tahsin J Chow

List of Publications by Year in descending order

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75 papers	1,582 citations	304368 22 h-index	329751 37 g-index
77 all docs	77 docs citations	77 times ranked	2056 citing authors

#	Article	IF	Citations
1	Phenothiazine derivatives as organic sensitizers for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 4040.	6.7	147
2	White light emission from single component polymers fabricated by spin coating. Applied Physics Letters, 2003, 82, 550-552.	1.5	74
3	Highly efficient triarylene conjugated dyes for sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 9523.	6.7	69
4	A pyridomethaneâ€“BF2 complex-based chemosensor for detection of hydrazine. RSC Advances, 2013, 3, 17924.	1.7	58
5	Bisindolylmaleimides as Red Electroluminescence Materials. Chemistry of Materials, 2003, 15, 4527-4532.	3.2	54
6	Polymorphism-dependent fluorescence of bisthienylmaleimide with different responses to mechanical crushing and grinding pressure. CrystEngComm, 2014, 16, 11018-11026.	1.3	52
7	Performance Characterization of Dye-Sensitized Photovoltaics under Indoor Lighting. Journal of Physical Chemistry Letters, 2017, 8, 1824-1830.	2.1	51
8	Highâ€Performance Organic Dyes with Electronâ€Deficient Quinoxalinoid Heterocycles for Dyeâ€Sensitized Solar Cells under One Sun and Indoor Light. ChemSusChem, 2019, 12, 3654-3665.	3.6	51
9	Geometrical effect of stilbene on the performance of organic dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 14907.	6.7	50
10	White Light-Emitting Devices Based on Star-Shape Polymers with a Bisindolylmaleimide Core. Macromolecules, 2010, 43, 5925-5931.	2.2	48
11	Holeâ€Transporting Materials Based on Twisted Bimesitylenes for Stable Perovskite Solar Cells with High Efficiency. ChemSusChem, 2016, 9, 274-279.	3.6	48
12	Molybdenum-mediated dimerization of norbornadiene and derivatives. Journal of the American Chemical Society, 1987, 109, 797-804.	6.6	47
13	Highly efficient red fluorescent dyes for organic light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 3091.	6.7	47
14	Tuning Excited-State Electron Transfer from an Adiabatic to Nonadiabatic Type in Donorâ^'Bridgeâ^'Acceptor Systems and the Associated Energy-Transfer Process. Journal of Physical Chemistry A, 2006, 110, 12136-12144.	1.1	46
15	Selective â€œturn-offâ€•fluorescent sensing of mercury ions using aminocyclodextrin:3-hydroxy-N-phenyl-2-naphthamide complex in aqueous solution. RSC Advances, 2014, 4, 11714.	1.7	46
16	Benzophenones as Generic Host Materials for Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 1527-1535.	4.0	43
17	Helicenes as Allâ€•inâ€•One Organic Materials for Application in OLEDs: Synthesis and Diverse Applications of Carboâ€•and Aza[5]helical Diamines. Chemistry - A European Journal, 2016, 22, 9375-9386.	1.7	41
18	Spiro[fluorene-9,9â€²-phenanthren]-10â€²-one as auxiliary acceptor of D-A-Ï€-A dyes for dye-sensitized solar cells under one sun and indoor light. Journal of Power Sources, 2020, 458, 228063.	4.0	37

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19	Tetracene-based field-effect transistors using solution processes. Journal of Materials Chemistry, 2012, 22, 13070.	6.7	34
20	Donorâ€“Acceptorâ€“Donor Type Cyclopenta[2,1-b;3,4-bâ€²]dithiophene Derivatives as a New Class of Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 7070-7082.	2.5	32
21	Pyridomethaneâ€“BF₂ complex/phenothiazine hybrid sensitizer with high molar extinction coefficient for efficient, sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 16831-16842.	5.2	30
22	Photoinduced electron transfer reaction tuned by donorâ€“acceptor pairs via the rigid, linear spacer heptacyclo[6.6.0.02,6.03,13.04,11.05,9.010,14]tetradecane. Tetrahedron, 2003, 59, 5719-5730.	1.0	22
23	Organic amorphous hole-transporting materials based on TrÃ¶ger's Base: alternatives to NPB. RSC Advances, 2015, 5, 26806-26810.	1.7	22
24	White light-emitting devices with a single emitting layer based on bisindolylmaleimide fluorophores. Journal of Materials Chemistry, 2009, 19, 5141.	6.7	21
25	Deep blue-emissive bifunctional (hole-transporting + emissive) materials with CIE_yâ‰¤ 0.06 based on a â€˜Uâ€™-shaped phenanthrene scaffold for application in organic light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 9310-9315.	2.7	21
26	Molecularly Engineered Cyclopenta[2,1-b;3,4-bâ€²]dithiophene-Based Hole-Transporting Materials for High-Performance Perovskite Solar Cells with Efficiency over 19%. ACS Applied Energy Materials, 2021, 4, 4719-4728.	2.5	21
27	Small and Medium Rings, 75. Syntheses, Photoelectron Spectra, and Photoreactivity of Polycyclic 1,5â€Diketones: Transannular Interaction in the Cyclooctaneâ€1,5â€dione Fragment. Chemische Berichte, 1991, 124, 803-813.	0.2	20
28	Theoretical characterization of photoinduced electron transfer in rigidly linked donorâ€“acceptor molecules: the fragment charge difference and the generalized Mullikenâ€“Hush schemes. Molecular Physics, 2010, 108, 2775-2789.	0.8	19
29	Rational Design of Cyclopenta[2,1â€b;3,4â€bâ€²]dithiopheneâ€bridged Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. Energy Technology, 2019, 7, 307-316.	1.8	18
30	Arrangement of Subchromophores: Orbital Interaction in the Heptacyclo[6.6.0.0^{2,6}.0^{3,13}.0^{4,11}.0^{5,9}.0^{10,14}]tetradecane System. Chemische Berichte, 1991, 124, 2871-2878.	0.2	16
31	Heptacyclo[6.6.0.0 2,6 .0 3,13 .0 4,11 .0 5,9 .0 10,14]tetradecane: a new type of spacer for mediating electron transfer processes. Tetrahedron Letters, 2001, 42, 29-31.	0.7	16
32	Photo and electroluminescence of 2-anilino-5-phenylpenta-2,4-dienenitrile derivatives. Journal of Materials Chemistry, 2002, 12, 42-46.	6.7	14
33	The Preparation of (8â€Hydroxyquinolinato)Bis(2â€Phenylpyridyl)Iridium Complexes and Their Photophysical Properties. Journal of the Chinese Chemical Society, 2008, 55, 439-448.	0.8	14
34	Benzophenone-imbedded benzoyltriptycene with high triplet energy for application as a universal host material in phosphorescent organic light-emitting diodes (PhOLEDs). New Journal of Chemistry, 2016, 40, 6854-6859.	1.4	14
35	Photoinduced electron transfer across linearly fused oligo-norbornyl structures. Tetrahedron, 2005, 61, 6967-6975.	1.0	13
36	Synthesis of rod-shaped compounds: bis(7,7â€²-heptacyclo[6.6.0.02,6.03,13.04,11.05,9.010,14]tetradecanylidene) derivatives. Tetrahedron Letters, 1999, 40, 7799-7801.	0.7	12

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37	Density functional theory analysis of a mixedâ€ligand iridium compound for multiâ€color organic lightâ€emitting diodes. Journal of Physical Organic Chemistry, 2008, 21, 315-320.	0.9	12
38	Heptacene: Synthesis and Its Holeâ€Transfer Property in Stable Thin Films. Chemistry - A European Journal, 2021, 27, 10677-10684.	1.7	12
39	Photoinduced electron transfer reactions across rigid linear spacer groups of high symmetry. Tetrahedron Letters, 2002, 43, 8115-8119.	0.7	11
40	Hexacene: Synthesis, Properties and Future Perspectives. Chemical Record, 2015, 15, 1137-1139.	2.9	11
41	Synthesis of Stable Sulfonium Ylides from Sulfoxides and Dimethyl Acetylenedicarboxylate. Synthetic Communications, 1988, 18, 519-523.	1.1	10
42	Synthesis and Reactions of 1,4,4a,5,8,8a-Hexahydro-1,4-Methano-5,8-Ethenonaphthalene. Synthetic Communications, 1988, 18, 1875-1881.	1.1	10
43	Transannular Interactions in Polycyclic Hydrocarbons. The System of Cage-Shaped Hexacyclo[6.6.0.02,6.03,13.04,11.05,9]tetradecane Derivatives. Journal of Organic Chemistry, 1995, 60, 5651-5657.	1.7	10
44	Solvolysis of isodrin derivatives. Evidence of long-range ?-participation in the stabilization of carbocations. Journal of Physical Organic Chemistry, 1998, 11, 871-878.	0.9	10
45	Light Emitting Materials and Devices of PPV Type Compounds Containing Quinolines. Journal of the Chinese Chemical Society, 2005, 52, 811-818.	0.8	10
46	Carbo[5]helicene versus planar phenanthrene as a scaffold for organic materials in OLEDs: the electroluminescence of anthracene-functionalized emissive materials. New Journal of Chemistry, 2017, 41, 14730-14737.	1.4	10
47	Solution-processed organic micro crystal transistor based on tetraceno[2,3-b]thiophene from a monoketone precursor. Journal of Materials Chemistry, 2011, 21, 11317.	6.7	9
48	Dyotropic Hydrogen Migration in Pentacyclo[7.6.0.02,13.03, 8.010, 14]Pentadeca-4, 6,11-triene. Angewandte Chemie International Edition in English, 1986, 25, 1121-1122.	4.4	8
49	The Preparation of Heptacyclo[6.6.0.0.^{2,6}0.^{3,13}0.^{4,11}0.^{5,9}0.^{10,14}]Tetradecane Derivatives and the Analysis of Their NMR Spectra. Journal of the Chinese Chemical Society, 1988, 35, 291-299.	0.8	8
50	Synthesis and Electroluminescence of Metal 4â€Styrylâ€8â€hydroxyquinolates. Journal of the Chinese Chemical Society, 2004, 51, 735-742.	0.8	8
51	Preparation of Hydroquinoneâ€Containing Polymers by ROMP. Journal of the Chinese Chemical Society, 2001, 48, 945-948.	0.8	7
52	Synthesis and physical properties of brominated hexacene and hole-transfer properties of thin-film transistors. RSC Advances, 2018, 8, 13259-13265.	1.7	7
53	Computations on a Series of Substituted Quinolines. Journal of the Chinese Chemical Society, 2003, 50, 593-596.	0.8	6
54	Twisted biaryl-amines as novel host materials for green-emissive phosphorescent organic light-emitting diodes (PhOLEDs). RSC Advances, 2015, 5, 101169-101176.	1.7	6

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55	Tri- and tetraarylanthracenes with novel Î», Ï‡ and Ï^ topologies as blue-emissive and fluorescent host materials in organic light-emitting diodes (OLEDs). New Journal of Chemistry, 2017, 41, 4510-4517.	1.4	6
56	Regioselectivity in a benzophenone-mediated photo-substitution of some cage-shaped hydrocarbons. Journal of Physical Organic Chemistry, 1992, 5, 721-724.	0.9	5
57	Electrocatalytic hydrogen production using [FeFe]-hydrogenase mimics based on tetracene derivatives. New Journal of Chemistry, 2019, 43, 13810-13815.	1.4	4
58	Substituent Effects on the Chemical Reactivities of Tricarbonyl and Tetracarbonyl Iron Complexes of 7â€Azanorbornadiene Derivatives. Journal of the Chinese Chemical Society, 1993, 40, 503-507.	0.8	3
59	The Structures of Quadricyclanone and its 3â€Cyclopentadienylidene Derivative. Journal of the Chinese Chemical Society, 1995, 42, 943-946.	0.8	3
60	Bromination of Binorâ€S. Journal of the Chinese Chemical Society, 1997, 44, 49-57.	0.8	3
61	Platinum Complexes of 4â€Hydoxyâ€1,5â€naphthyridines as Emitting Dyes. Journal of the Chinese Chemical Society, 2012, 59, 357-364.	0.8	3
62	Organic Dyes Containing a 1,3â€indandione Moiety as Light Harvesting Materials. Journal of the Chinese Chemical Society, 2015, 62, 832-837.	0.8	3
63	Chemistry of Isodrin Derivatives. The Syntheses of 11â€and 12â€Hydroxyâ€1,4,4a,9,9a,10â€Hexahydroâ€Endo Endoâ€1,4;9,10â€Dimethanoâ€Anthracenes. Journal of the Chinese Chemical Society, 1996, 43, 101-107.	0.8	2
64	Synthesis of Isodrin Homologues with Parallel-Aligned Double Bonds. Synthetic Communications, 2000, 30, 4473-4478.	1.1	2
65	Octasilsesquioxane Chemistry I. Attachment of Four Surface Bridges to Octasilsesquioxane Quasi-cube Framework. Journal of the Chinese Chemical Society, 2002, 49, 943-947.	0.8	2
66	Preparation and Properties of 2-(9â€²-Carbazolyl)-3-(8â€³-hydroxy-2â€³-Quinolinyl)Acrylonitrile Derivatives. Journal of the Chinese Chemical Society, 2003, 50, 135-142.	0.8	2
67	Polymer Electrolyte Containing Dialkoxyacenes with Oligo(Ethylene Oxide) Side Chains. Journal of the Chinese Chemical Society, 2006, 53, 1335-1342.	0.8	2
68	Spiroâ€sulfoneâ€based Auxiliary Acceptor in Dâ€Aâ€Ï€â€A Dyeâ€sensitized Solar Cells Application under Indoor/Outdoor Light. Asian Journal of Organic Chemistry, 2021, 10, 3396-3405.	1.3	2
69	The Chemistry of Binorâ€S and its Cyclopropyl Ring Transformations. Journal of the Chinese Chemical Society, 1994, 41, 167-174.	0.8	1
70	Chemistry of Cageâ€shaped Hydrocarbons. The Oxidation of Heptacyclo[6.6.0.0^{2,6}.0^{3,13}.0^{4,11}.0^{5,9}.0^{10,14}]tetradecane. Journal of the Chinese Chemical Society, 1994, 41, 833-841.	0.8	1
71	A NMR Chemical Shift Analysis on Two Nonconjugated Triâ€Ï€â€Systems. Journal of the Chinese Chemical Society, 1999, 46, 827-831.	0.8	1
72	Ole Fin Complexes of Silver(I) and Copper(I)Î²-Diketonates. Journal of the Chinese Chemical Society, 2001, 48, 1003-1008.	0.8	1

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73	Synthesis of rodâ€shaped dipolar compounds for the study of longâ€range electronic interactions. Journal of the Chinese Chemical Society, 0, , .	0.8	1
74	The Bonding Structure of Quadricyclanylidene Derivatives. Journal of the Chinese Chemical Society, 2000, 47, 149-153.	0.8	0
75	Biphenylvinylene quinolinol derivatives and their lightâ€emitting properties. Journal of the Chinese Chemical Society, 0, , .	0.8	0