

Taweesak Sudyoadsuk

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.

107
papers

2,267
citations

28
h-index

41
g-index

113
ext. papers

2,589
ext. citations

4.3
avg, IF

4.93
L-index

#	Paper	IF	Citations
107	Solid-State Fluorophores with Combined Excited-State Intramolecular Proton Transfer-Aggregation-Induced Emission as Efficient Emitters for Electroluminescent Devices. <i>Advanced Photonics Research</i> , 2022 , 3, 2100141	1.9	1
106	Chrysene and triphenylene based-fluorophores as non-doped deep blue emitters for triplet-triplet annihilation organic light-emitting diodes. <i>Journal of Luminescence</i> , 2022 , 248, 118926	3.8	1
105	Synthesis, Characterization, and Physical Properties of Pyrene-Naphthalimide Derivatives as Emissive Materials for Electroluminescent Devices. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 2402-2410	3.2	2
104	A Dimeric π -Stacking of Anthracene Inducing Efficiency Enhancement in Solid-State Fluorescence and Non-Doped Deep-Blue Triplet-Triplet Annihilation Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021 , 9, 2100500	8.1	10
103	Twisted Phenanthro[9,10-d]imidazole Derivatives as Non-doped Emitters for Efficient Electroluminescent Devices with Ultra-Deep Blue Emission and High Exciton Utilization Efficiency. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2328-2337	4.5	5
102	Intramolecular hydrogen bond π -enhanced electroluminescence performance of hybridized local and charge transfer (HLCT) excited-state blue-emissive materials. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 497-507	7.1	8
101	Rational design of anthracene-based deep-blue emissive materials for highly efficient deep-blue organic light-emitting diodes with CIEy ≥ 0.05 . <i>Dyes and Pigments</i> , 2021 , 184, 108874	4.6	7
100	Bis(carbazol-9-yl)phenyl end-capped polyaromatics as solution-processed deep blue fluorescent emitters for simple structure solution-processed electroluminescent devices. <i>Dyes and Pigments</i> , 2021 , 186, 109065	4.6	4
99	Unique dual fluorescence emission in the solid state from a small molecule based on phenanthrocarbazole with an AIE luminogen as a single-molecule white-light emissive material. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2361-2372	7.8	2
98	Double anchor indolo[3,2-b]indole-derived metal-free dyes with extra electron donors as efficient sensitizers for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2021 , 45, 7542-7554	3.6	2
97	Efficient white light-emitting polymers from dual thermally activated delayed fluorescence chromophores for non-doped solution processed white electroluminescent devices. <i>Polymer Chemistry</i> , 2021 , 12, 1030-1039	4.9	5
96	Antisolvent treatment of copper(I) thiocyanate (CuSCN) hole transport layer for efficiency improvements in organic solar cells and light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10435-10442	7.1	4
95	Self-absorption-free excited-state intramolecular proton transfer (ESIPT) emitters for high brightness and luminous efficiency organic fluorescent electroluminescent devices. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6212-6225	7.8	0
94	Tin(II) thiocyanate Sn(SCN) ₂ as an ultrathin anode interlayer in organic photovoltaics. <i>Applied Physics Letters</i> , 2021 , 119, 063301	3.4	3
93	Imidazole-based solid-state fluorophores with combined ESIPT and AIE features as self-absorption-free non-doped emitters for electroluminescent devices. <i>Dyes and Pigments</i> , 2021 , 193, 109488	4.6	6
92	Enhancement of performance of OLEDs using double indolo[3,2-b]indole electron-donors based emitter. <i>Journal of Luminescence</i> , 2021 , 238, 118287	3.8	1
91	A solution-processable hybridized local and charge-transfer (HLCT) phenanthroimidazole as a deep-blue emitter for efficient solution-processed non-doped electroluminescence device. <i>Dyes and Pigments</i> , 2021 , 195, 109712	4.6	7

90	N-Phenylcarbazole substituted bis(hexylthiophen-2-yl)-benzothiadiazoles as deep red emitters for hole-transporting layer free solution-processed OLEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 420, 113509	4.7	2
89	Efficient Solution-Processable Non-Doped Emissive Materials Based on Oligocarbazole End-Capped Molecules for Simple Structured Red, Green, Blue, and White Electroluminescent Devices. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1311-1322	4	2
88	The improvement in hole-transporting and electroluminescent properties of diketopyrrolopyrrole pigment by grafting with carbazole dendrons.. <i>RSC Advances</i> , 2021 , 11, 12710-12719	3.7	3
87	High efficiency and low efficiency roll-off hole-transporting layer-free solution-processed fluorescent NIR-OLEDs based on oligothiopheneBenzothiadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5045-5050	7.1	10
86	Elucidating the Coordination of Diethyl Sulfide Molecules in Copper(I) Thiocyanate (CuSCN) Thin Films and Improving Hole Transport by Antisolvent Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 2002355	15.6	14
85	Highly fluorescent solid-state benzothiadiazole derivatives as saturated red emitters for efficient solution-processed non-doped electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10464-10473	7.1	8
84	A highly efficient near infrared organic solid fluorophore based on naphthothiadiazole derivatives with aggregation-induced emission enhancement for a non-doped electroluminescent device. <i>Chemical Communications</i> , 2020 , 56, 6305-6308	5.8	14
83	Theoretical Study on Factors Influencing the Efficiency of D _π A _π A Isoindigo-Based Sensitizer for Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2020 , 49, 318-332	1.9	5
82	Efficient deep-blue fluorescent emitters from imidazole functionalized anthracenes for simple structure deep-blue electroluminescent devices. <i>Organic Electronics</i> , 2020 , 85, 105897	3.5	9
81	A Ladder-like Dopant-free Hole-Transporting Polymer for Hysteresis-less High-Efficiency Perovskite Solar Cells with High Ambient Stability. <i>ChemSusChem</i> , 2020 , 13, 5058-5066	8.3	5
80	Effect of thiophene/furan substitution on organic field effect transistor properties of arylthiadiazole based organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17297-17306	7.1	5
79	A Simple and Strong Electron-Deficient 5,6-Dicyano[2,1,3]benzothiadiazole-Cored Donor-Acceptor-Donor Compound for Efficient Near Infrared Thermally Activated Delayed Fluorescence. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3029-3036	4.5	19
78	Highly efficient all solution-processed non-doped deep-blue electroluminescent devices from oligocarbazole-end-capped spirobifluorenes. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2943-2953	7.8	6
77	High Solid-State Near Infrared Emissive Organic Fluorophores from Thiadiazole[3,4-c]Pyridine Derivatives for Efficient Simple Solution-Processed Nondoped Near Infrared OLEDs. <i>Advanced Functional Materials</i> , 2020 , 30, 2002481	15.6	14
76	Toward rational design of metal-free organic dyes based on indolo[3,2-b]indole structure for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018 , 151, 149-156	4.6	7
75	Solution processed blue-emitting and hole-transporting materials from truxene-carbazole-pyrene triads. <i>Organic Electronics</i> , 2018 , 57, 352-358	3.5	10
74	A Single Energy Conversion and Storage Device of Cobalt Oxide Nanosheets and N-Doped Reduced Graphene Oxide Aerogel. <i>ECS Transactions</i> , 2018 , 85, 435-447	1	1
73	Novel Hybrid Energy Conversion and Storage Cell with Photovoltaic and Supercapacitor Effects in Ionic Liquid Electrolyte. <i>Scientific Reports</i> , 2018 , 8, 12192	4.9	19

72	Theoretical rationalization for reduced charge recombination in bulky carbazole-based sensitizers in solar cells. <i>Journal of Computational Chemistry</i> , 2017 , 38, 901-909	3.5	2
71	Significant enhancement in the performance of porphyrin for dye-sensitized solar cells: aggregation control using chenodeoxycholic acid. <i>New Journal of Chemistry</i> , 2017 , 41, 7081-7091	3.6	16
70	Rubber seed oil as potential non-edible feedstock for biodiesel production using heterogeneous catalyst in Thailand. <i>Renewable Energy</i> , 2017 , 101, 937-944	8.1	80
69	Modulation of spacer of carbazole-carbazole based organic dyes toward high efficient dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 174, 7-16	4.4	18
68	Anchoring number-performance relationship of zinc-porphyrin sensitizers for dye-sensitized solar cells: A combined experimental and theoretical study. <i>Dyes and Pigments</i> , 2017 , 136, 697-706	4.6	12
67	Theoretical design of coumarin derivatives incorporating auxiliary acceptor with D- π - π configuration for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 322-323, 16-26	4.7	9
66	Coumarin-based donor-acceptor organic dyes for a dye-sensitized solar cell: photophysical properties and electron injection mechanism. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	19
65	(D) π - π -Type Organic Dyes for Efficient Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 2528-2538	3.2	8
64	The number density effect of N-substituted dyes on the TiO ₂ surface in dye sensitized solar cells: a theoretical study. <i>RSC Advances</i> , 2015 , 5, 11549-11557	3.7	9
63	Multi-triphenylamine-functionalized dithienylbenzothiadiazoles as hole-transporting non-doped red emitters for efficient simple solution processed pure red organic light-emitting diodes. <i>Organic Electronics</i> , 2015 , 21, 117-125	3.5	19
62	Effects of linker, anchoring group and capped carbazole at meso-substituted zinc-porphyrins on conversion efficiency of DSSCs. <i>Dyes and Pigments</i> , 2015 , 118, 64-75	4.6	28
61	Triple bond-modified anthracene sensitizers for dye-sensitized solar cells: a computational study. <i>RSC Advances</i> , 2015 , 5, 38130-38140	3.7	25
60	Synthesis and photophysical properties of donor-acceptor system based bipyridylporphyrins for dye-sensitized solar cells. <i>Journal of Energy Chemistry</i> , 2015 , 24, 779-785	12	5
59	Synthesis and characterization of hole-transporting star-shaped carbazolyl truxene derivatives. <i>RSC Advances</i> , 2015 , 5, 72841-72848	3.7	9
58	N-coumarin derivatives as hole-transporting emitters for high efficiency solution-processed pure green electroluminescent devices. <i>Dyes and Pigments</i> , 2015 , 112, 227-235	4.6	19
57	Zinc-porphyrin dyes with different meso-aryl substituents for dye-sensitized solar cells: experimental and theoretical studies. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 882-93	4.5	16
56	Synthesis, physical and electroluminescence properties of 3,6-dipyrenylcarbazole end capped oligofluorenes. <i>RSC Advances</i> , 2015 , 5, 26569-26579	3.7	3
55	Synthesis and characterization of new triphenylamino-1,8-naphthalimides for organic light-emitting diode applications. <i>New Journal of Chemistry</i> , 2015 , 39, 2807-2814	3.6	13

54	Synthesis, Characterisation, and Electroluminescence Properties of N-Coumarin Derivatives Containing Peripheral Triphenylamine. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 496-505	3.2	21
53	Theoretical studies on electronic structures and photophysical properties of anthracene derivatives as hole-transporting materials for OLEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 125, 36-45	4.4	18
52	Coumarin-cored carbazole dendrimers as solution-processed non-doped green emitters for electroluminescent devices. <i>Tetrahedron</i> , 2014 , 70, 6249-6257	2.4	15
51	The design, synthesis, and characterization of D- π - π type organic dyes as sensitizers for dye-sensitized solar cells (DSSCs). <i>Tetrahedron Letters</i> , 2014 , 55, 3244-3248	2	13
50	Tuning the electron donating ability in the triphenylamine-based D- π architecture for highly efficient dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 273, 8-16	4.7	48
49	Synthesis and characterization of carbazole dendronized coumarin derivatives as solution-processed non-doped emitters and hole-transporters for electroluminescent devices. <i>New Journal of Chemistry</i> , 2014 , 38, 3282	3.6	23
48	Bifunctional oligofluorene-cored carbazole dendrimers as solution-processed blue emitters and hole transporters for electroluminescent devices. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5540	7.1	18
47	Modification of D-A- π configuration toward a high-performance triphenylamine-based sensitizer for dye-sensitized solar cells: a theoretical investigation. <i>ChemPhysChem</i> , 2014 , 15, 3809-18	3.2	14
46	Synthesis, characterization, and properties of novel bis(aryl)carbazole-containing N-coumarin derivatives. <i>Tetrahedron Letters</i> , 2014 , 55, 6689-6693	2	6
45	Carbazole-dendrimer-based donor- π -acceptor type organic dyes for dye-sensitized solar cells: effect of the size of the carbazole dendritic donor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8212-8222	9.5	51
44	An organic dye using N-dodecyl-3-(3,6-di-tert-butylcarbazol-N-yl)carbazol-6-yl as a donor moiety for efficient dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2013 , 54, 4903-4907	2	14
43	Pyrene-functionalized carbazole derivatives as non-doped blue emitters for highly efficient blue organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4916	7.1	67
42	Synthesis and Characterization of DDA-Type Organic Dyes Bearing Carbazole as a Donor Moiety (DD) for Efficient Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 5051-5063	3.2	53
41	Synthesis and Characterization of Carbazole Dendrimers as Solution-Processed High Tg Amorphous Hole-Transporting Materials for Electroluminescent Devices. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 6619-6628	3.2	29
40	An efficient solution processed non-doped red emitter based on carbazole-triphenylamine end-capped di(thiophen-2-yl)benzothiadiazole for pure red organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 3401-3	5.8	33
39	Synthesis and characterization of π -pyrrolic functionalized porphyrins as sensitizers for dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2013 , 54, 2435-2439	2	18
38	Synthesis and Characterization of 2D-D- π -Type Organic Dyes Bearing Bis(3,6-di-tert-butylcarbazol-9-ylphenyl)aniline as Donor Moiety for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 2608-2620	3.2	38
37	Synthesis and Characterization of 9-(Fluorenyl)anthracene Derivatives as Efficient Non-Doped Blue Emitters for Organic Light-Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 3825-3834	3.2	29

36	Theoretical study on novel double donor-based dyes used in high efficient dye-sensitized solar cells: The application of TDDFT study to the electron injection process. <i>Organic Electronics</i> , 2013 , 14, 711-722	3.5	81
35	Bis(carbazol-9-ylphenyl)aniline end-capped oligoarylenes as solution-processed nondoped emitters for full-emission color tuning organic light-emitting diodes. <i>Journal of Organic Chemistry</i> , 2013 , 78, 6702-6713	4.3	37
34	Multi-triphenylamine-substituted carbazoles: synthesis, characterization, properties, and applications as hole-transporting materials. <i>Tetrahedron Letters</i> , 2013 , 54, 3683-3687	2	33
33	Novel bis(fluorenyl)benzothiadiazole-cored carbazole dendrimers as highly efficient solution-processed non-doped green emitters for organic light-emitting diodes. <i>Chemical Communications</i> , 2013 , 49, 6388-90	5.8	41
32	Novel bis[5-(fluoren-2-yl)thiophen-2-yl]benzothiadiazole end-capped with carbazole dendrons as highly efficient solution-processed nondoped red emitters for organic light-emitting diodes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8694-703	9.5	68
31	New Family of Ruthenium-Dye-Sensitized Solar Cells (DSSCs) with a High Solar-Energy-Conversion Efficiency. <i>Advanced Materials Research</i> , 2013 , 770, 145-148	0.5	
30	Synthesis and characterization of 9,10-substituted anthracene derivatives as blue light-emitting and hole-transporting materials for electroluminescent devices. <i>Tetrahedron</i> , 2012 , 68, 1853-1861	2.4	15
29	Bis(4-diphenylaminophenyl)carbazole end-capped fluorene as solution-processed deep-blue light-emitting and hole-transporting materials for electroluminescent devices. <i>Tetrahedron Letters</i> , 2012 , 53, 3615-3618	2	11
28	Multibromo-N-alkylcarbazoles: synthesis, characterization, and their benzo[b]thiophene derivatives. <i>Tetrahedron Letters</i> , 2012 , 53, 4568-4572	2	20
27	Synthesis, characterization, and properties of 7,7'-bis(3,6-di-tert-butylcarbazol-N-yl)-substituted fluorenyl-oligothiophenes. <i>Tetrahedron Letters</i> , 2012 , 53, 5939-5943	2	2
26	Blue light-emitting and hole-transporting materials based on 9,9-bis(4-diphenylaminophenyl)fluorenes for efficient electroluminescent devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6869		59
25	Theoretical study of fluorenyl oligothiophenes as color tunable emissive materials for highly efficient electroluminescent device. <i>Organic Electronics</i> , 2012 , 13, 1836-1843	3.5	19
24	Synthesis, characterization, physical properties, and applications of highly fluorescent pyrene-functionalized 9,9-bis(4-diarylamino)phenyl)fluorene in organic light-emitting diodes. <i>Tetrahedron Letters</i> , 2012 , 53, 5492-5496	2	5
23	Biodiesel production based on heterogeneous process catalyzed by solid waste coral fragment. <i>Fuel</i> , 2012 , 98, 194-202	7.1	71
22	Synthesis and properties of oligofluorene-thiophenes as emissive materials for organic electroluminescent devices: color-tuning from deep blue to orange. <i>Tetrahedron</i> , 2012 , 68, 8416-8423	2.4	14
21	DDA-Type Organic Dyes for Dye-Sensitized Solar Cells with a Potential for Direct Electron Injection and a High Extinction Coefficient: Synthesis, Characterization, and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25653-25663	3.8	128
20	Carbazole dendronised triphenylamines as solution processed high Tg amorphous hole-transporting materials for organic electroluminescent devices. <i>Chemical Communications</i> , 2012 , 48, 3382-4	5.8	89
19	The effect of conjugated spacer on novel carbazole derivatives for dye-sensitized solar cells: density functional theory/time-dependent density functional theory study. <i>Journal of Computational Chemistry</i> , 2012 , 33, 1517-23	3.5	28

18	Synthesis, Properties and Applications of Biphenyl Functionalized 9,9-Bis(4-diphenylaminophenyl)fluorenes as Bifunctional Materials for Organic Electroluminescent Devices. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 5263-5274	3.2	26
17	Synthesis and properties of fluorene-oligothiophenes perylene diimide triads and their electropolymerizations. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14579		4
16	Synthesis and characterization of high Tg carbazole-based amorphous hole-transporting materials for organic light-emitting devices. <i>Tetrahedron Letters</i> , 2011 , 52, 4749-4752	2	38
15	meso-Multi(iodophenyl) porphyrins: synthesis, isolation, and identification. <i>Tetrahedron Letters</i> , 2011 , 52, 4795-4798	2	5
14	Bifunctional anthracene derivatives as non-doped blue emitters and hole-transporters for electroluminescent devices. <i>Chemical Communications</i> , 2011 , 47, 7122-4	5.8	51
13	Non-isothermal crystallization kinetics and thermal stability of the in situ reinforcing composite films based on thermotropic liquid crystalline polymer and polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 103, 1017-1026	4.1	13
12	Theoretical investigation of novel carbazole-fluorene based D-EA conjugated organic dyes as dye-sensitizer in dye-sensitized solar cells (DSCs). <i>Journal of Computational Chemistry</i> , 2011 , 32, 1568-76 ³⁻⁵		40
11	COMPUTER-AIDED DESIGN OF OLED MATERIALS: A MOLECULAR MODELING APPROACH FOR OPTICAL PROPERTIES OF FLUORENYL OLIGOTHIOPHENES. <i>Journal of Theoretical and Computational Chemistry</i> , 2010 , 09, 993-1007	1.8	5
10	Dipyrenylcarbazole derivatives for blue organic light-emitting diodes. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 2162-7	4.5	31
9	Thermally and electrochemically stable amorphous hole-transporting materials based on carbazole dendrimers for electroluminescent devices. <i>Thin Solid Films</i> , 2008 , 516, 2881-2888	2.2	33
8	Synthesis and characterization of N-carbazole end-capped oligofluorene-thiophenes. <i>Tetrahedron</i> , 2007 , 63, 8881-8890	2.4	46
7	Synthesis and characterization of N-carbazole end-capped oligofluorenes. <i>Tetrahedron Letters</i> , 2007 , 48, 89-93	2	34
6	Synthesis, optical, electrochemical, and thermal properties of conjugated fluorenyl oligothiophenes. <i>Tetrahedron Letters</i> , 2007 , 48, 919-923	2	18
5	Synthesis, optical, electrochemical, and thermal properties of bis(9,9-bis-n-hexylfluorenyl)-substituted oligothiophenes. <i>Tetrahedron Letters</i> , 2007 , 48, 3661-3665	2	24
4	Synthesis and properties of hole-transporting fluorene linked bistrisphenylamine. <i>Optical Materials</i> , 2007 , 30, 364-369	3.3	31
3	Synthesis of electrochemically and thermally stable amorphous hole-transporting carbazole dendronized fluorene. <i>Synthetic Metals</i> , 2007 , 157, 17-22	3.6	63
2	Synthesis and properties of stable amorphous hole-transporting molecules for electroluminescent devices. <i>Tetrahedron Letters</i> , 2006 , 47, 8949-8952	2	36
1	Cyanophenyl spiro[acridine-9,9'-fluorene]s as simple structured hybridized local and charge-transfer-based ultra-deep blue emitters for highly efficient non-doped electroluminescent devices (CIEy D.05). <i>Journal of Materials Chemistry C</i> ,	7.1	8

