

Kai Lin Woon

List of Publications by Year in descending order

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49
papers

786
citations

567281

15
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552781

26
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49
all docs

49
docs citations

49
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Charge Transport in Extended Nematic Liquid Crystals. <i>Chemistry of Materials</i> , 2006, 18, 2311-2317.	6.7	102
2	Highly Circularly Polarized Photoluminescence over a Broad Spectral Range from a Calamitic, Hole-Transporting, Chiral Nematic Glass and from an Indirectly Excited Dye. <i>Advanced Materials</i> , 2003, 15, 1555-1558.	21.0	65
3	Modification of the physical and optical properties of the frustule of the diatom <i>Coscinodiscus wailesii</i> by nickel sulfate. <i>Nanotechnology</i> , 2007, 18, 295101.	2.6	55
4	Intramolecular Dimerization Quenching of Delayed Emission in Asymmetric D ^π A TADF Emitters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12400-12410.	3.1	55
5	Linearly polarised organic light-emitting diodes (OLEDs): synthesis and characterisation of a novel hole-transporting photoalignment copolymer. <i>Journal of Materials Chemistry</i> , 2005, 15, 3208.	6.7	40
6	Electroluminescent segmented liquid crystalline trimers. <i>Liquid Crystals</i> , 2008, 35, 413-427.	2.2	30
7	Design of efficient blue phosphorescent bottom emitting light emitting diodes by machine learning approach. <i>Organic Electronics</i> , 2018, 63, 257-266.	2.6	30
8	Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: a review. <i>Nanotechnology</i> , 2016, 27, 332002.	2.6	24
9	Hybrid film of single-layer graphene and carbon nanotube as transparent conductive electrode for organic light emitting diode. <i>Synthetic Metals</i> , 2019, 257, 116186.	3.9	22
10	Highly birefringent nematic and chiral nematic liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1191-1194.	2.2	20
11	Triplet states and energy back transfer of carbazole derivatives. <i>RSC Advances</i> , 2015, 5, 59960-59969.	3.6	20
12	The effect of carbon contamination and argon ion sputtering on the work function of chlorinated indium tin oxide. <i>Current Applied Physics</i> , 2014, 14, 472-475.	2.4	16
13	Separation of single-walled carbon nanotubes using aqueous two-phase system. <i>Separation and Purification Technology</i> , 2014, 125, 136-141.	7.9	16
14	Solution processed multilayer red, green and blue phosphorescent organic light emitting diodes using carbazole dendrimer as a host. <i>Journal of Luminescence</i> , 2017, 183, 150-158.	3.1	16
15	Enhancement of the work function of indium tin oxide by surface modification using caesium fluoride. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 475102.	2.8	15
16	Determination of energy levels at the interface between O ₂ plasma treated ITO/P3HT/PCBM and PEDOT/PSS/P3HT/PCBM using angular-resolved x-ray and ultraviolet photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 055109.	2.8	15
17	Evaluation of various density functionals for predicting the electrophosphorescent host HOMO, LUMO and triplet energies. <i>Synthetic Metals</i> , 2014, 195, 54-60.	3.9	15
18	Modeling anomalous charge carrier transport in disordered organic semiconductors using the fractional drift-diffusion equation. <i>Organic Electronics</i> , 2017, 41, 157-165.	2.6	15

#	ARTICLE	IF	CITATIONS
19	Effect of conjugation and aromaticity of 3,6 di-substituted carbazoles on triplet energy and the implication of triplet energy in multiple-cyclic aromatic compounds. RSC Advances, 2018, 8, 9850-9857.	3.6	15
20	The efficiency enhancement of single-layer solution-processed blue phosphorescent organic light emitting diodes by hole injection layer modification. Journal Physics D: Applied Physics, 2014, 47, 205103.	2.8	14
21	Investigation into the Gaussian density of states widths of organic semiconductors. Journal Physics D: Applied Physics, 2016, 49, 325106.	2.8	14
22	Material and device properties of highly birefringent nematic glasses and polymer networks for organic electroluminescence. Journal of the Society for Information Display, 2006, 14, 557.	2.1	13
23	Tuning the singlet-triplet energy splitting by fluorination at 3,6 positions of the 1,4-biscarbazoylbenzene. Dyes and Pigments, 2016, 132, 1-6.	3.7	13
24	Work function modification of PEDOT:PSS by mixing with barium acetylacetonate. RSC Advances, 2020, 10, 17673-17680.	3.6	13
25	Efficient green phosphorescent tandem organic light emitting diodes with solution processable mixed hosts charge generating layer. Journal of Luminescence, 2014, 154, 345-349.	3.1	11
26	Interfacial behavior of resistive switching in ITO/PVK/Al WORM memory devices. Journal Physics D: Applied Physics, 2016, 49, 075104.	2.8	11
27	The Removal of Metallic Single-Walled Carbon Nanotubes Using an Aqueous Two-Phase System. Journal of Nanoscience and Nanotechnology, 2014, 14, 3398-3402.	0.9	10
28	High efficiency solution processed fluorescent yellow organic light-emitting diode through fluorinated alcohol treatment at the emissive layer/cathode interface. Journal Physics D: Applied Physics, 2014, 47, 015106.	2.8	9
29	1,4-Bis(trifluoromethyl)benzene as a new acceptor for the design and synthesis of emitters exhibiting efficient thermally activated delayed fluorescence and electroluminescence: experimental and computational guidance. Journal of Materials Chemistry C, 2022, 10, 4929-4940.	5.5	9
30	Electrostatic model of the energy-bending within organic semiconductors: experiment and simulation. Journal of Physics Condensed Matter, 2016, 28, 365002.	1.8	8
31	Hybrid carbon nanotube/polymer heterointerface organic field effect transistor. Thin Solid Films, 2014, 556, 495-498.	1.8	7
32	Effect of mixed hole transporting host on the mobility, Gaussian density of states and efficiencies of a heterojunction phosphorescent organic light emitting diode. Journal Physics D: Applied Physics, 2016, 49, 155103.	2.8	7
33	Improving the operational voltage of vertical organic field effect transistor (VOFET) by altering the morphology of dielectric layer. Journal of Materials Science: Materials in Electronics, 2017, 28, 11961-11968.	2.2	6
34	Structural, chemical and electronic differences between bare and nitrogen-doped carbon nanoparticles. Carbon Letters, 2019, 29, 255-262.	5.9	6
35	Scaling behaviors of transient noise current in organic field-effect transistors. Organic Electronics, 2012, 13, 1370-1376.	2.6	5
36	Vertical organic field effect phototransistor with two dissimilar source and drain contacts. Thin Solid Films, 2014, 562, 525-529.	1.8	5

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37	Ligand-Stabilized ZnO Quantum Dots: Molecular Dynamics and Experimental Study. Australian Journal of Chemistry, 2017, 70, 1110.	0.9	5
38	Energy level alignment of blended organic semiconductors and electrodes at the interface. Current Applied Physics, 2018, 18, 982-992.	2.4	5
39	Relating molecular descriptors to frontier orbital energy levels, singlet and triplet excited states of fused tricyclics using machine learning. Journal of Molecular Graphics and Modelling, 2021, 105, 107891.	2.4	5
40	Enhancement of Hole Extraction Efficiency of Dibenzothiophenes by Substitution Engineering: Toward Additive-Free Perovskite Solar Cells with Power Conversion Efficiency Exceeding 20%. Solar Rrl, 2022, 6, .	5.8	5
41	High power efficiency solution-processed double-layer blue phosphorescent organic light-emitting diode by controlling charge transport at the emissive layer and heterojunction. Physica Status Solidi - Rapid Research Letters, 2013, 7, 421-424.	2.4	4
42	Effect of Bulky Functional Groups on Donor and Acceptor Interactions and their Photoluminescence Properties. ChemPhysChem, 2020, 21, 2620-2626.	2.1	4
43	Highly efficient processable molybdenum trioxide as a hole blocking interlayer for super-yellow organic light emitting diode. Journal Physics D: Applied Physics, 2016, 49, 395105.	2.8	3
44	Conformational distortion in solution processable PVK:TcTa blends and the effect on extra warm white organic phosphorescent light emitting diodes. Organic Electronics, 2019, 74, 1-6.	2.6	3
45	Fast and Accurate Determination of the Singlet-Triplet Gap in Donor-Acceptor and Multiresonance TADF Molecules by Using Hole-Hole Tamm-Dancoff Approximated Density Functional Theory. Advanced Theory and Simulations, 2022, 5, .	2.8	3
46	Effects of nanoscale surface modification and triplet energy shielding of a single layer solution processed blue phosphorescent organic light emitting diode by using Triton X-100. Synthetic Metals, 2013, 172, 44-48.	3.9	2
47	Anomalous Charge Transport in Disordered Organic Semiconductors. , 2011, , .		0
48	Comparative study on different annealing methods and choice of solvent in organic field effect transistors based on Poly(3-hexylthiophene). Materials Science-Poland, 2013, 31, 325-330.	1.0	0
49	High efficiency solution processable organic light emitting diode through materials and interfacial engineering. , 2016, , .		0