

# Kai Lin Woon

## List of Publications by Year in descending order

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49  
papers

786  
citations

567281

15  
h-index

552781

26  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1119  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4929-4940.	5.5	9
2	Enhancement of Hole Extraction Efficiency of Dibenzothiophenes by Substitution Engineering: Toward Additive-Free Perovskite Solar Cells with Power Conversion Efficiency Exceeding 20%. <i>Solar Rrl</i> , 2022, 6, .	5.8	5
3	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. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	3
4	Relating molecular descriptors to frontier orbital energy levels, singlet and triplet excited states of fused tricyclics using machine learning. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 105, 107891.	2.4	5
5	Effect of Bulky Functional Groups on Donor and Acceptor Interactions and their Photoluminescence Properties. <i>ChemPhysChem</i> , 2020, 21, 2620-2626.	2.1	4
6	Work function modification of PEDOT:PSS by mixing with barium acetylacetonate. <i>RSC Advances</i> , 2020, 10, 17673-17680.	3.6	13
7	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
8	Conformational distortion in solution processable PVK:TcTa blends and the effect on extra warm white organic phosphorescent light emitting diodes. <i>Organic Electronics</i> , 2019, 74, 1-6.	2.6	3
9	Intramolecular Dimerization Quenching of Delayed Emission in Asymmetric D-A-TADF Emitters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12400-12410.	3.1	55
10	Structural, chemical and electronic differences between bare and nitrogen-doped carbon nanoparticles. <i>Carbon Letters</i> , 2019, 29, 255-262.	5.9	6
11	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. <i>RSC Advances</i> , 2018, 8, 9850-9857.	3.6	15
12	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
13	Energy level alignment of blended organic semiconductors and electrodes at the interface. <i>Current Applied Physics</i> , 2018, 18, 982-992.	2.4	5
14	Improving the operational voltage of vertical organic field effect transistor (VOFET) by altering the morphology of dielectric layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11961-11968.	2.2	6
15	Ligand-Stabilized ZnO Quantum Dots: Molecular Dynamics and Experimental Study. <i>Australian Journal of Chemistry</i> , 2017, 70, 1110.	0.9	5
16	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
17	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
18	High efficiency solution processable organic light emitting diode through materials and interfacial engineering. , 2016, , .		0

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19	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
20	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
21	Electrostatic model of the energy-bending within organic semiconductors: experiment and simulation. Journal of Physics Condensed Matter, 2016, 28, 365002.	1.8	8
22	Investigation into the Gaussian density of states widths of organic semiconductors. Journal Physics D: Applied Physics, 2016, 49, 325106.	2.8	14
23	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
24	Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: a review. Nanotechnology, 2016, 27, 332002.	2.6	24
25	Interfacial behavior of resistive switching in ITO/PVK/Al WORM memory devices. Journal Physics D: Applied Physics, 2016, 49, 075104.	2.8	11
26	Triplet states and energy back transfer of carbazole derivatives. RSC Advances, 2015, 5, 59960-59969.	3.6	20
27	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
28	The effect of carbon contamination and argon ion sputtering on the work function of chlorinated indium tin oxide. Current Applied Physics, 2014, 14, 472-475.	2.4	16
29	Separation of single-walled carbon nanotubes using aqueous two-phase system. Separation and Purification Technology, 2014, 125, 136-141.	7.9	16
30	Vertical organic field effect phototransistor with two dissimilar source and drain contacts. Thin Solid Films, 2014, 562, 525-529.	1.8	5
31	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
32	Determination of energy levels at the interface between O <sub>2</sub> plasma treated ITO/P3HT:PCBM and PEDOT:PSS/P3HT:PCBM using angular-resolved x-ray and ultraviolet photoelectron spectroscopy. Journal Physics D: Applied Physics, 2014, 47, 055109.	2.8	15
33	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
34	Hybrid carbon nanotube/polymer heterointerface organic field effect transistor. Thin Solid Films, 2014, 556, 495-498.	1.8	7
35	Evaluation of various density functionals for predicting the electrophosphorescent host HOMO, LUMO and triplet energies. Synthetic Metals, 2014, 195, 54-60.	3.9	15
36	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

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37	High power efficiency solution-processed double-layer blue phosphorescent organic light-emitting diode by controlling charge transport at the emissive layer and heterojunction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 421-424.	2.4	4
38	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
39	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. <i>Synthetic Metals</i> , 2013, 172, 44-48.	3.9	2
40	Comparative study on different annealing methods and choice of solvent in organic field effect transistors based on Poly(3-hexylthiophene). <i>Materials Science-Poland</i> , 2013, 31, 325-330.	1.0	0
41	Scaling behaviors of transient noise current in organic field-effect transistors. <i>Organic Electronics</i> , 2012, 13, 1370-1376.	2.6	5
42	Anomalous Charge Transport in Disordered Organic Semiconductors. , 2011, , .		0
43	Electroluminescent segmented liquid crystalline trimers. <i>Liquid Crystals</i> , 2008, 35, 413-427.	2.2	30
44	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
45	Material and device properties of highly birefringent nematic glasses and polymer networks for organic electroluminescence. <i>Journal of the Society for Information Display</i> , 2006, 14, 557.	2.1	13
46	Electronic Charge Transport in Extended Nematic Liquid Crystals. <i>Chemistry of Materials</i> , 2006, 18, 2311-2317.	6.7	102
47	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
48	Highly birefringent nematic and chiral nematic liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1191-1194.	2.2	20
49	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