Tun Seng Herng

List of Publications by Year in Descending Order

80 papers	2,237 citations	29 h-index	44 g-index
82 ext. papers	2,755 ext. citations	9.6 avg, IF	4.99 L-index

#	Paper	IF	Citations
80	High Temperature Co-firing of 3D-Printed Al-ZnO/Al2O3 Multi-Material Two-Phase Flow Sensor. *Journal of Materiomics*, **2021**,	6.7	2
79	Fabrication of 3D-Printed Ceramic Structures for Portable Solar Desalination Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 23220-23229	9.5	12
78	A Stable [4,3]Peri-acene Diradicaloid: Synthesis, Structure, and Electronic Properties. *Angewandte Chemie - International Edition*, **2021**, 60, 4464-4469	16.4	10
77	A Stable [4,3]Peri-acene Diradicaloid: Synthesis, Structure, and Electronic Properties. *Angewandte Chemie*, **2021**, 133, 4514-4519	3.6	2
76	Printable two-dimensional superconducting monolayers. *Nature Materials*, **2021**, 20, 181-187	27	38
75	Two-Dimensional Conjugated Covalent Organic Framework Films via Oxidative C□□ Coupling Reactions at a Liquid□liquid Interface. *Organic Materials*, **2021**, 03, 060-066	1.9	1
74	Imprinting Ferromagnetism and Superconductivity in Single Atomic Layers of Molecular Superlattices. *Advanced Materials*, **2020**, 32, e1907645	24	11
73	Enhancement of Virtual Magnetic Moment Formation in ZnO NPs by Li+ Ion Doping. *Journal of Superconductivity and Novel Magnetism*, **2020**, 33, 2851-2859	1.5	4
72	Domain Engineering in ReS2 by Coupling Strain during Electrochemical Exfoliation. *Advanced Functional Materials*, **2020**, 30, 2003057	15.6	8
71	S-shaped para-Quinodimethane-Embedded Double [6]Helicene and Its Charged Species Showing Open-Shell Diradical Character. *Chemistry - A European Journal*, **2020**, 26, 15613-15622	4.8	6
70	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. *Nature Chemistry*, **2020**, 12, 242-248	17.6	59
69	Formation of a four-bladed waterwheel-type chloro-bridged dicopper(ii) complex with dithiamacrocycle via double exo-coordination. *Dalton Transactions*, **2020**, 49, 1365-1369	4.3	1
68	A 3D-printing method of fabrication for metals, ceramics, and multi-materials using a universal self-curable technique for robocasting. *Materials Horizons*, **2020**, 7, 1083-1090	14.4	30
67	A Stable Nitrogen-centered Bis(imino)perylene Dimer-based Diradicaloid. *Asian Journal of Organic Chemistry*, **2020**, 9, 1798-1801	3	0
66	2,6-/1,5-Naphthoquinodimethane bridged porphyrin dimer diradicaloids. *Journal of Porphyrins and Phthalocyanines*, **2020**, 24, 220-229	1.8	6
65	GO-Functionalized Large Magnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability and Hyperthermia Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 22703-22713	9.5	37
64	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. *Advanced Materials*, **2019**, 31, e1901185	24	85

63	Chemically Exfoliated VSe Monolayers with Room-Temperature Ferromagnetism. *Advanced Materials*, **2019**, 31, e1903779	24	131
62	NiFe (sulfur)oxyhydroxide porous nanoclusters/Ni foam composite electrode drives a large-current-density oxygen evolution reaction with an ultra-low overpotential. *Journal of Materials Chemistry A*, **2019**, 7, 18816-18822	13	17
61	High-Magnetization Tetragonal Ferrite-Based Films Induced by Carbon and Oxygen Vacancy Pairs. *ACS Applied Materials & Interfaces*, **2019**, 11, 1049-1056	9.5	4
60	From Open-Shell Singlet Diradicaloid to Closed-Shell Global Antiaromatic Macrocycles. *Angewandte Chemie*, **2018**, 130, 7284-7288	3.6	13
59	From Open-Shell Singlet Diradicaloid to Closed-Shell Global Antiaromatic Macrocycles. *Angewandte Chemie - International Edition*, **2018**, 57, 7166-7170	16.4	26
58	Stable Nitrogen-Centered Bis(imino)rylene Diradicaloids. *Chemistry - A European Journal*, **2018**, 24, 4944-4951	4.8	11
57	Global Aromaticity in Macrocyclic Cyclopenta-Fused Tetraphenanthrenylene Tetraradicaloid and Its Charged Species. *Angewandte Chemie - International Edition*, **2018**, 57, 13052-13056	16.4	35
56	Toward Two-Dimensional -Conjugated Covalent Organic Radical Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 8007-8011	16.4	94
55	Stable Expanded Porphycene-Based Diradicaloid and Tetraradicaloid. *Angewandte Chemie*, **2018**, 130, 12714-12717	3.6	3
54	Stable Expanded Porphycene-Based Diradicaloid and Tetraradicaloid. *Angewandte Chemie - International Edition*, **2018**, 57, 12534-12537	16.4	19
53	Diazuleno-s-indacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. *Angewandte Chemie*, **2018**, 130, 16979-16983	3.6	19
52	Superoctazethrene: An Open-Shell Graphene-like Molecule Possessing Large Diradical Character but Still with Reasonable Stability. *Journal of the American Chemical Society*, **2018**, 140, 14054-14058	16.4	48
51	Diazuleno-s-indacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. *Angewandte Chemie - International Edition*, **2018**, 57, 16737-16741	16.4	38
50	Global Aromaticity in Macrocyclic Cyclopenta-Fused Tetraphenanthrenylene Tetraradicaloid and Its Charged Species. *Angewandte Chemie*, **2018**, 130, 13236-13240	3.6	13
49	Toward Two-Dimensional -Conjugated Covalent Organic Radical Frameworks. *Angewandte Chemie* , **2018**, 130, 8139-8143	3.6	20
48	Curved -conjugated corannulene dimer diradicaloids. *Chemical Science*, **2018**, 9, 5100-5105	9.4	17
47	A Peri-tetracene Diradicaloid: Synthesis and Properties. *Angewandte Chemie - International Edition*, **2018**, 57, 9697-9701	16.4	60
46	A Peri-tetracene Diradicaloid: Synthesis and Properties. *Angewandte Chemie*, **2018**, 130, 9845-9849	3.6	27

45	Radical and Diradical Formation in Naphthalene Diimides through Simple Chemical Oxidation. *ChemPhysChem*, **2017**, 18, 591-595	3.2	17
44	Toward Stable Superbenzoquinone Diradicaloids. *Angewandte Chemie*, **2017**, 129, 5094-5098	3.6	18
43	A Stable N-Annulated Perylene-Bridged Bisphenoxyl Diradicaloid and the Corresponding Boron Trifluoride Complex. *Chemistry - A European Journal*, **2017**, 23, 9419-9424	4.8	11
42	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-Shell Singlet Diradical Character and Global Aromaticity/ Anti-Aromaticity. *Angewandte Chemie - International Edition*, **2017**, 56, 11415-11419	16.4	44
41	Magnetic Behavior of ZnO Nanorods Doped with Silver (Ag3+) Ions. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 5631-5636	1.3	5
40	Ferrite-based soft and hard magnetic structures by extrusion free-forming. *RSC Advances*, **2017**, 7, 27128-27138	3.7	16
39	Toward Benzobis(thiadiazole)-based Diradicaloids. *Chemistry - an Asian Journal*, **2017**, 12, 2177-2182	4.5	16
38	Ambient Stable Radical Cations, Diradicaloid Dimeric Dications, Closed-Shell Dications, and Diradical Dications of Methylthio-Capped Rylenes. *Chemistry - A European Journal*, **2017**, 23, 7595-7606	4.8	10
37	Toward Stable Superbenzoquinone Diradicaloids. *Angewandte Chemie - International Edition*, **2017**, 56, 5012-5016	16.4	32
36	A Three-Dimensionally Conjugated Diradical Molecular Cage. *Angewandte Chemie*, **2017**, 129, 15585-15589	3.6	13
35	A Three-Dimensionally Conjugated Diradical Molecular Cage. *Angewandte Chemie - International Edition*, **2017**, 56, 15383-15387	16.4	35
34	Fluorenyl Based Macrocyclic Polyradicaloids. *Journal of the American Chemical Society*, **2017**, 139, 13173-13183	14.4	44
33	Stable Oxindolyl-Based Analogues of Chichibabin's and Müller's Hydrocarbons. *Angewandte Chemie - International Edition*, **2017**, 56, 14154-14158	16.4	22
32	Stable Oxindolyl-Based Analogues of Chichibabin's and Müller's Hydrocarbons. *Angewandte Chemie*, **2017**, 129, 14342-14346	3.6	8
31	Conformationally Flexible Bis(9-fluorenylidene)porphyrin Diradicaloids. *Angewandte Chemie - International Edition*, **2017**, 56, 13484-13488	16.4	33
30	Conformationally Flexible Bis(9-fluorenylidene)porphyrin Diradicaloids. *Angewandte Chemie*, **2017**, 129, 13669-13673	3.6	16
29	Synthesis, structures and magnetic properties of isoreticular polyrotaxane-type two-dimensional coordination polymers. *RSC Advances*, **2017**, 7, 45582-45586	3.7	3
28	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-Shell Singlet Diradical Character and Global Aromaticity/ Anti-Aromaticity. *Angewandte Chemie*, **2017**, 129, 11573-11577	3.6	20

27	Supramolecular Isomerism and Polyrotaxane-Based Two-Dimensional Coordination Polymers. *Crystal Growth and Design*, **2016**, 16, 7278-7285	3.5	23
26	Higher Order Conjugated Polycyclic Hydrocarbons with Open-Shell Singlet Ground State: Nonazethrene versus Nonacene. *Journal of the American Chemical Society*, **2016**, 138, 10323-30	16.4	89
25	Extended Bis(benzothia)quinodimethanes and Their Dications: From Singlet Diradicaloids to Isoelectronic Structures of Long Acenes. *Angewandte Chemie*, **2016**, 128, 9462-9466	3.6	15
24	Strong Modification of Excitons and Optical Conductivity for Different Dielectric Environments in ZnO Films. *IEEE Photonics Journal*, **2016**, 8, 1-9	1.8	19
23	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. *Journal of the American Chemical Society*, **2016**, 138, 7782-90	16.4	63
22	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP)Cu2(O2CCH3)4]. *ACS Applied Materials & Interfaces*, **2016**, 8, 16154-9	9.5	72
21	Bovine Serum Albumin-Conjugated Ferrimagnetic Iron Oxide Nanoparticles to Enhance the Biocompatibility and Magnetic Hyperthermia Performance. *Nano-Micro Letters*, **2016**, 8, 80-93	19.5	51
20	Thermoresponsive magnetic ionic liquids: synthesis and temperature switchable magnetic separation. *RSC Advances*, **2016**, 6, 15731-15734	3.7	10
19	Benzo-thia-fused []thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity anti-aromaticity. *Chemical Science*, **2016**, 7, 3036-3046	9.4	31
18	Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. *Journal of Organic Chemistry*, **2016**, 81, 2911-9	4.2	34
17	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. *Journal of the American Chemical Society*, **2016**, 138, 1065-77	16.4	76
16	Super-heptazethrene. *Angewandte Chemie - International Edition*, **2016**, 55, 8615-9	16.4	59
15	Super-heptazethrene. *Angewandte Chemie*, **2016**, 128, 8757-8761	3.6	19
14	Kinetically Blocked Stable 5,6:12,13-Dibenzozethrene: A Laterally Extended Zethrene with Enhanced Diradical Character. *Organic Letters*, **2016**, 18, 2886-9	6.2	23
13	Networked Spin Cages: Tunable Magnetism and Lithium Ion Storage via Modulation of Spin-Electron Interactions. *Inorganic Chemistry*, **2016**, 55, 9892-9897	5.1	6
12	Stable 3,6-Linked Fluorenyl Radical Oligomers with Intramolecular Antiferromagnetic Coupling and Polyradical Characters. *Journal of the American Chemical Society*, **2016**, 138, 13048-13058	16.4	35
11	Novel room-temperature spin-valve-like magnetoresistance in magnetically coupled nano-column Fe3O4/Ni heterostructure. *Nanoscale*, **2016**, 8, 15737-43	7.7	8
10	Extended Bis(benzothia)quinodimethanes and Their Dications: From Singlet Diradicaloids to Isoelectronic Structures of Long Acenes. *Angewandte Chemie - International Edition*, **2016**, 55, 9316-20	16.4	48

9	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral Fe3+ cations. *Nano Research*, **2015**, 8, 2935-2945	10	19
8	Perpendicular magnetic clusters with configurable domain structures via dipole□dipole interactions. *Nano Research*, **2015**, 8, 3639-3650	10	4
7	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe3O4 Nanodisc. *Advanced Functional Materials*, **2015**, 25, 812-820	15.6	101
6	Magnetic and optical studies of hydrogenated Cu-doped ZnO film. *Journal of the Korean Physical Society*, **2013**, 62, 1738-1743	0.6	1
5	Mutual ferromagnetic-ferroelectric coupling in multiferroic copper-doped ZnO. *Advanced Materials*, **2011**, 23, 1635-40	24	85
4	Stable bipolar surface potential behavior of copper-doped zinc oxide films studied by Kelvin probe force microscopy. *Applied Physics Letters*, **2010**, 97, 232103	3.4	19
3	Structural and magnetic studies of Cu-doped ZnO films synthesized via a hydrothermal route. *Journal of Materials Chemistry*, **2010**, 20, 5756		20
2	Room Temperature Ferromagnetism in $({hbox {Zn}}_{1-{rm x}},{hbox {Mg}}_{rm x}){hbox {O}}$ Film. *IEEE Transactions on Magnetics*, **2010**, 46, 1338-1341	2	2
1	Stable Quadruple Helical Tetraradicaloid with Thermally Induced Intramolecular Magnetic Switching. *CCS Chemistry*,399-407	7.2	5