

Tun Seng Herng

List of Publications by Year in descending order

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82
papers

3,256
citations

136950

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docs citations

82
times ranked

3975
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemically Exfoliated VSe ₂ Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2019, 31, e1903779.	21.0	251
2	Toward Two-Dimensional π -Conjugated Covalent Organic Radical Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8007-8011.	13.8	140
3	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. <i>Advanced Materials</i> , 2019, 31, e1901185.	21.0	129
4	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe ₃ O ₄ Nanodisc. <i>Advanced Functional Materials</i> , 2015, 25, 812-820.	14.9	121
5	Higher Order π -Conjugated Polycyclic Hydrocarbons with Open-Shell Singlet Ground State: Nonazethrene versus Nonacene. <i>Journal of the American Chemical Society</i> , 2016, 138, 10323-10330.	13.7	118
6	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 1065-1077.	13.7	103
7	Printable two-dimensional superconducting monolayers. <i>Nature Materials</i> , 2021, 20, 181-187.	27.5	102
8	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. <i>Nature Chemistry</i> , 2020, 12, 242-248.	13.6	101
9	Mutual Ferromagnetic-Ferroelectric Coupling in Multiferroic Copper-Doped ZnO. <i>Advanced Materials</i> , 2011, 23, 1635-1640.	21.0	96
10	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP)Cu ₂ (O ₂ CCH ₃) ₄]. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16154-16159.	8.0	92
11	A Peri-tetracene Diradicaloid: Synthesis and Properties. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9697-9701.	13.8	92
12	Superheptazethrene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8615-8619.	13.8	79
13	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. <i>Journal of the American Chemical Society</i> , 2016, 138, 7782-7790.	13.7	70
14	Diazulenoindacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16737-16741.	13.8	69
15	Extended Bis(benzothia)quinodimethanes and Their Dications: From Singlet Diradicaloids to Isoelectronic Structures of Long Acenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9316-9320.	13.8	68
16	Ferrite-based soft and hard magnetic structures by extrusion free-forming. <i>RSC Advances</i> , 2017, 7, 27128-27138.	3.6	68
17	Superoctazethrene: An Open-Shell Graphene-like Molecule Possessing Large Diradical Character but Still with Reasonable Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 14054-14058.	13.7	65
18	Bovine Serum Albumin-Conjugated Ferrimagnetic Iron Oxide Nanoparticles to Enhance the Biocompatibility and Magnetic Hyperthermia Performance. <i>Nano-Micro Letters</i> , 2016, 8, 80-93.	27.0	64

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19	Fluorenyl Based Macrocyclic Polyradicaloids. <i>Journal of the American Chemical Society</i> , 2017, 139, 13173-13183.	13.7	64
20	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-shell Singlet Diradical Character and Global Aromaticity/ Anti-Aromaticity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11415-11419.	13.8	61
21	Global Aromaticity in Macrocyclic Cyclopenta-fused Tetraphenanthrene Tetraradicaloid and Its Charged Species. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13052-13056.	13.8	54
22	GO-Functionalized Large Magnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability and Hyperthermia Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22703-22713.	8.0	53
23	A Three-dimensionally Conjugated Diradical Molecular Cage. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15383-15387.	13.8	52
24	A 3D-printing method of fabrication for metals, ceramics, and multi-materials using a universal self-curable technique for robocasting. <i>Materials Horizons</i> , 2020, 7, 1083-1090.	12.2	51
25	A Stable [4,3]Peri-acene Diradicaloid: Synthesis, Structure, and Electronic Properties. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4464-4469.	13.8	45
26	Stable 3,6-Linked Fluorenyl Radical Oligomers with Intramolecular Antiferromagnetic Coupling and Polyradical Characters. <i>Journal of the American Chemical Society</i> , 2016, 138, 13048-13058.	13.7	44
27	Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. <i>Journal of Organic Chemistry</i> , 2016, 81, 2911-2919.	3.2	43
28	Fabrication of 3D-Printed Ceramic Structures for Portable Solar Desalination Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23220-23229.	8.0	42
29	A Peri-tetracene Diradicaloid: Synthesis and Properties. <i>Angewandte Chemie</i> , 2018, 130, 9845-9849.	2.0	40
30	Benzo-thia-fused [n]thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity versus anti-aromaticity. <i>Chemical Science</i> , 2016, 7, 3036-3046.	7.4	38
31	Conformationally Flexible Bis(9-fluorenylidene)porphyrin Diradicaloids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13484-13488.	13.8	37
32	Stable Oxindolyl-Based Analogues of Chichibabin's and Müller's Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14154-14158.	13.8	34
33	Stable Expanded Porphycene-Based Diradicaloid and Tetraradicaloid. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12534-12537.	13.8	33
34	Toward Stable Superbenzoquinone Diradicaloids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5012-5016.	13.8	32
35	NiFe (sulfur)oxyhydroxide porous nanoclusters/Ni foam composite electrode drives a large-current-density oxygen evolution reaction with an ultra-low overpotential. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18816-18822.	10.3	30
36	Supramolecular Isomerism and Polyrotaxane-Based Two-Dimensional Coordination Polymers. <i>Crystal Growth and Design</i> , 2016, 16, 7278-7285.	3.0	29

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37	From Openâ€Shell Singlet Diradicaloid to Closedâ€Shell Global Antiaromatic Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7166-7170.	13.8	29
38	Kinetically Blocked Stable 5,6:12,13-Dibenzozethrene: A Laterally Î€-Extended Zethrene with Enhanced Diradical Character. <i>Organic Letters</i> , 2016, 18, 2886-2889.	4.6	26
39	Curved Î€-conjugated corannulene dimer diradicaloids. <i>Chemical Science</i> , 2018, 9, 5100-5105.	7.4	25
40	Imprinting Ferromagnetism and Superconductivity in Single Atomic Layers of Molecular Superlattices. <i>Advanced Materials</i> , 2020, 32, e1907645.	21.0	25
41	Diazulenoâ€indacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. <i>Angewandte Chemie</i> , 2018, 130, 16979-16983.	2.0	24
42	Stable Quadruple Helical Tetraradicaloid with Thermally Induced Intramolecular Magnetic Switching. <i>CCS Chemistry</i> , 2022, 4, 95-103.	7.8	24
43	Superâ€heptazethrene. <i>Angewandte Chemie</i> , 2016, 128, 8757-8761.	2.0	22
44	Toward Benzobis(thiadiazole)â€based Diradicaloids. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2177-2182.	3.3	22
45	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Openâ€Shell Singlet Diradical Character and Global Aromaticity/ Antiâ€Aromaticity. <i>Angewandte Chemie</i> , 2017, 129, 11573-11577.	2.0	22
46	Toward Twoâ€Dimensional Î€â€Conjugated Covalent Organic Radical Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 8139-8143.	2.0	22
47	Domain Engineering in ReS ₂ by Coupling Strain during Electrochemical Exfoliation. <i>Advanced Functional Materials</i> , 2020, 30, 2003057.	14.9	22
48	Stable bipolar surface potential behavior of copper-doped zinc oxide films studied by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2010, 97, 232103.	3.3	21
49	Structural and magnetic studies of Cu-doped ZnO films synthesized via a hydrothermal route. <i>Journal of Materials Chemistry</i> , 2010, 20, 5756.	6.7	21
50	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral Fe ³⁺ cations. <i>Nano Research</i> , 2015, 8, 2935-2945.	10.4	21
51	Extended Bis(benzothia)quinodimethanes and Their Dications: From Singlet Diradicaloids to Isoelectronic Structures of Long Acenes. <i>Angewandte Chemie</i> , 2016, 128, 9462-9466.	2.0	21
52	Strong Modification of Excitons and Optical Conductivity for Different Dielectric Environments in ZnO Films. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	20
53	Radical and Diradical Formation in Naphthalene Diimides through Simple Chemical Oxidation. <i>ChemPhysChem</i> , 2017, 18, 591-595.	2.1	20
54	Toward Stable Superbenzoquinone Diradicaloids. <i>Angewandte Chemie</i> , 2017, 129, 5094-5098.	2.0	18

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55	Stable Nitrogen-Centered Bis(imino)rylene Diradicaloids. Chemistry - A European Journal, 2018, 24, 4944-4951.	3.3	17
56	Global Aromaticity in Macrocyclic Cyclopenta-Fused Tetraphenanthrenylene Tetraradicaloid and Its Charged Species. Angewandte Chemie, 2018, 130, 13236-13240.	2.0	17
57	A Three-Dimensionally Conjugated Diradical Molecular Cage. Angewandte Chemie, 2017, 129, 15585-15589.	2.0	16
58	Conformationally Flexible Bis(9-fluorenylidene)porphyrin Diradicaloids. Angewandte Chemie, 2017, 129, 13669-13673.	2.0	16
59	Shaped <i>para</i> -Quinodimethane-Embedded Double [6]Helicene and Its Charged Species Showing Open-Shell Diradical Character. Chemistry - A European Journal, 2020, 26, 15613-15622.	3.3	15
60	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.	3.3	14
61	A Stable <i>N</i> -Annulated Perylene-Bridged Bisphenoxyl Diradicaloid and the Corresponding Boron Trifluoride Complex. Chemistry - A European Journal, 2017, 23, 9419-9424.	3.3	13
62	From Open-Shell Singlet Diradicaloid to Closed-Shell Global Antiaromatic Macrocycles. Angewandte Chemie, 2018, 130, 7284-7288.	2.0	13
63	Thermoresponsive magnetic ionic liquids: synthesis and temperature switchable magnetic separation. RSC Advances, 2016, 6, 15731-15734.	3.6	12
64	A Stable [4,3]Peri-cene Diradicaloid: Synthesis, Structure, and Electronic Properties. Angewandte Chemie, 2021, 133, 4514-4519.	2.0	12
65	Stable Oxindolyl-Based Analogues of Chichibabin's and Müller's Hydrocarbons. Angewandte Chemie, 2017, 129, 14342-14346.	2.0	10
66	2,6-/1,5-Naphthoquinodimethane bridged porphyrin dimer diradicaloids. Journal of Porphyrins and Phthalocyanines, 2020, 24, 220-229.	0.8	10
67	Novel room-temperature spin-valve-like magnetoresistance in magnetically coupled nano-column Fe ₃ O ₄ /Ni heterostructure. Nanoscale, 2016, 8, 15737-15743.	5.6	9
68	Room Temperature Ferromagnetism in $(\text{Zn}_{1-x}\text{Mg}_x)_m\text{O}$ Film. IEEE Transactions on Magnetics, 2010, 46, 1338-1341.	2.1	8
69	Networked Spin Cages: Tunable Magnetism and Lithium Ion Storage via Modulation of Spin-Electron Interactions. Inorganic Chemistry, 2016, 55, 9892-9897.	4.0	8
70	Enhancement of Virtual Magnetic Moment Formation in ZnO NPs by Li ⁺ Ion Doping. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2851-2859.	1.8	8
71	Magnetic Behavior of ZnO Nanorods Doped with Silver (Ag ³⁺) Ions. Journal of Nanoscience and Nanotechnology, 2017, 17, 5631-5636.	0.9	7
72	Stable Expanded Porphycene-Based Diradicaloid and Tetraradicaloid. Angewandte Chemie, 2018, 130, 12714-12717.	2.0	7

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73	High temperature co-firing of 3D-printed Al ZnO/Al ₂ O ₃ multi-material two-phase flow sensor. Journal of Materiomics, 2022, 8, 710-718.	5.7	6
74	High-Magnetization Tetragonal Ferrite-Based Films Induced by Carbon and Oxygen Vacancy Pairs. ACS Applied Materials & Interfaces, 2019, 11, 1049-1056.	8.0	5
75	Perpendicular magnetic clusters with configurable domain structures via dipole-dipole interactions. Nano Research, 2015, 8, 3639-3650.	10.4	4
76	Synthesis, structures and magnetic properties of isorecticular polyrotaxane-type two-dimensional coordination polymers. RSC Advances, 2017, 7, 45582-45586.	3.6	4
77	Magnetic and optical studies of hydrogenated Cu-doped ZnO film. Journal of the Korean Physical Society, 2013, 62, 1738-1743.	0.7	3
78	Formation of a four-bladed waterwheel-type chloro-bridged dicopper(II) complex with dithiamacrocycle via double exo-coordination. Dalton Transactions, 2020, 49, 1365-1369.	3.3	3
79	A Stable Nitrogen-centered Bis(imino)perylene Dimer-based Diradicaloid. Asian Journal of Organic Chemistry, 2020, 9, 1798-1801.	2.7	2
80	Two-Dimensional Conjugated Covalent Organic Framework Films via Oxidative C-C Coupling Reactions at a Liquid-Liquid Interface. Organic Materials, 2021, 03, 060-066.	2.0	2
81	Frontispiece: A Stable [4,3]Perylene Diradicaloid: Synthesis, Structure, and Electronic Properties. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
82	Frontispiz: A Stable [4,3]Perylene Diradicaloid: Synthesis, Structure, and Electronic Properties. Angewandte Chemie, 2021, 133, .	2.0	0