

Shek-Man Yiu

List of Publications by Year in descending order

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64
papers

1,489
citations

361045

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h-index

360668

35
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68
all docs

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docs citations

68
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Selectivity control of CO versus HCOO ⁻ production in the visible-light-driven catalytic reduction of CO ₂ with two cooperative metal sites. <i>Nature Catalysis</i> , 2019, 2, 801-808.	16.1	153
2	Efficient Catalytic Oxidation of Alkanes by Lewis Acid/[Os ^{VI} (N)Cl ₄] ⁻ Using Peroxides as Terminal Oxidants. Evidence for a Metal-Based Active Intermediate. <i>Journal of the American Chemical Society</i> , 2008, 130, 10821-10827.	6.6	102
3	Dual Homogeneous and Heterogeneous Pathways in Photo- and Electrocatalytic Hydrogen Evolution with Nickel(II) Catalysts Bearing Tetradentate Macrocyclic Ligands. <i>ACS Catalysis</i> , 2015, 5, 356-364.	5.5	75
4	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20437-20442.	7.2	66
5	FeCl ₃ -Activated Oxidation of Alkanes by [Os(N)O ₃] ⁻ . <i>Journal of the American Chemical Society</i> , 2004, 126, 14921-14929.	6.6	59
6	Topologically diverse shape-persistent bis-(Zn ^{II} -salphen) catalysts: efficient cyclic carbonate formation under mild conditions. <i>Chemical Communications</i> , 2016, 52, 1017-1020.	2.2	56
7	Syntheses and photophysical studies of new classes of luminescent isocyano rhenium(I) diimine complexes. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1546-1555.	9.5	49
8	Synthesis, Characterization, and Photophysical and Emission Solvatochromic Study of Rhenium(I) Tetra(isocyano) Diimine Complexes. <i>Organometallics</i> , 2011, 30, 2701-2711.	1.1	48
9	Osmium(vi) nitrido complexes bearingazole heterocycles: a new class of antitumor agents. <i>Chemical Science</i> , 2012, 3, 1582.	3.7	46
10	Cytotoxic (salen)ruthenium(III) anticancer complexes exhibit different modes of cell death directed by axial ligands. <i>Chemical Science</i> , 2017, 8, 6865-6870.	3.7	46
11	Multi-targeted organometallic ruthenium(II)-arene anticancer complexes bearing inhibitors of poly(ADP-ribose) polymerase-1: A strategy to improve cytotoxicity. <i>Journal of Inorganic Biochemistry</i> , 2014, 131, 47-55.	1.5	43
12	Strongly Phosphorescent Neutral Rhenium(I) Isocyanoborato Complexes: Synthesis, Characterization, and Photophysical, Electrochemical, and Computational Studies. <i>Chemistry - A European Journal</i> , 2015, 21, 2603-2612.	1.7	40
13	Synthesis, Characterization, and Photophysical Study of Luminescent Rhenium(I) Diimine Complexes with Various Types of N-Heterocyclic Carbene Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 3022-3031.	1.9	39
14	Luminescent Rhenium(I) Phenanthroline Complexes with a Benzoxazol-2-ylidene Ligand: Synthesis, Characterization, and Photophysical Study. <i>Organometallics</i> , 2012, 31, 7074-7084.	1.1	38
15	Facile N ₂ -N Coupling of Manganese(V) Imido Species. <i>Journal of the American Chemical Society</i> , 2007, 129, 803-809.	6.6	34
16	Luminescent Rhenium(I) Pyridyldiaminocarbene Complexes: Photophysics, Anion-Binding, and CO ₂ -Capturing Properties. <i>Inorganic Chemistry</i> , 2016, 55, 7969-7979.	1.9	33
17	Synthesis, characterization, photophysics and electrochemical study of luminescent iridium(III) complexes with isocyanoborate ligands. <i>Dalton Transactions</i> , 2015, 44, 15135-15144.	1.6	25
18	Phosphonium-Ring-Fused Bicyclic Metallafuran Complexes of Ruthenium and Osmium. <i>Chemistry - A European Journal</i> , 2019, 25, 9159-9163.	1.7	25

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19	Mono- and di-bromo platinum(IV) prodrugs via oxidative bromination: synthesis, characterization, and cytotoxicity. <i>Dalton Transactions</i> , 2015, 44, 19918-19926.	1.6	24
20	A Highly Reactive Seven-coordinate Osmium(V) Oxo Complex: $[\text{Os}^{\text{V}}(\text{O})(\text{qpy})(\text{pic})\text{Cl}]^{2+}$. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 288-291.	7.2	21
21	Highly Selective and Efficient Ring Hydroxylation of Alkylbenzenes with Hydrogen Peroxide and an Osmium(VI) Nitrido Catalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12260-12263.	7.2	21
22	Luminescent Charge-neutral Copper(I) Phenanthroline Complexes with Isocyanoborate Ligand. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 897-903.	1.0	21
23	Intermediates in the Oxidative Degradation of a Ruthenium-bound 2,2'-bipyridyl-phenoxo Ligand during Catalytic Water Oxidation. <i>ChemCatChem</i> , 2018, 10, 501-504.	1.8	20
24	Ruthenium-indolizone complexes as a new class of metalated heterocyclic compounds: insight into unconventional alkyne activation pathways, revelation of unexpected electronic properties and exploration of medicinal application. <i>Dalton Transactions</i> , 2018, 47, 12838-12842.	1.6	17
25	Tunable Luminescent Properties of Tricyanoosmium Nitrido Complexes Bearing a Chelating O ^N Ligand. <i>Inorganic Chemistry</i> , 2020, 59, 4406-4413.	1.9	16
26	Mechanochemical changes on cyclometalated Ir(III) acyclic carbene complexes: design and tuning of luminescent mechanochromic transition metal complexes. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 786-794.	3.0	16
27	Dual Pathways in the Oxidation of an Osmium(III) Guanidine Complex. Formation of Osmium(VI) Nitrido and Osmium Nitrosyl Complex. <i>Inorganic Chemistry</i> , 2017, 56, 2022-2028.	1.9	15
28	Generation and Reactivity of a One-electron-oxidized Manganese(V) Imido Complex with a Tetraamido Macrocylic Ligand. <i>Chemistry - A European Journal</i> , 2019, 25, 12895-12899.	1.7	15
29	Design and Synthesis of Luminescent Bis(isocyanoborate) Rhenate(I) Complexes as a Selective Sensor for Cyanide Anion. <i>Organometallics</i> , 2020, 39, 2135-2141.	1.1	15
30	Oxygen evolution from $\text{BF}_3/\text{MnO}_4^-$. <i>Chemical Communications</i> , 2011, 47, 4159.	2.2	14
31	Aerobic Oxidation of an Osmium(III) N-Hydroxyguanidine Complex To Give Nitric Oxide. <i>Inorganic Chemistry</i> , 2016, 55, 5056-5061.	1.9	14
32	Design of Luminescent Isocyano Rhenium(I) Complexes: Photophysics and Effects of the Ancillary Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 13963-13972.	1.9	14
33	Luminescent Neutral Cyclometalated Iridium(III) Complexes Featuring a Cubic Polyhedral Oligomeric Silsesquioxane for Lipid Droplet Imaging and Photocytotoxic Applications. <i>Inorganic Chemistry</i> , 2021, 60, 11672-11683.	1.9	14
34	Controlled Activation of Dipicolinyl-Substituted Propargylic Alcohol by Ru(II) and Os(II) for Unprecedented Indolizine-Fused Metallafuran Complexes. <i>Organometallics</i> , 2021, 40, 2458-2466.	1.1	13
35	Efficient, Stable, and Scalable Push-Pull Heptamethines for Electro-Optics. <i>Chemistry of Materials</i> , 2022, 34, 3683-3693.	3.2	13
36	Luminescence behaviour of Pb^{2+} -based cage-containing and channel-containing porous coordination polymers. <i>Dalton Transactions</i> , 2016, 45, 16134-16138.	1.6	12

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37	Conventional and unconventional alkyne activations by Ru and Os for unprecedented dimetalated quinolinium complexes. <i>Chemical Communications</i> , 2020, 56, 8908-8911.	2.2	12
38	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 20600-20605.	1.6	11
39	Structure and Reactivity of a Manganese(VI) Nitrido Complex Bearing a Tetraamido Macrocyclic Ligand. <i>Journal of the American Chemical Society</i> , 2021, 143, 15863-15872.	6.6	11
40	Structure and Reactivity of One- and Two-Electron Oxidized Manganese(V) Nitrido Complexes Bearing a Bulky Corrole Ligand. <i>Journal of the American Chemical Society</i> , 2022, 144, 7588-7593.	6.6	11
41	Platinated benzonaphthridone is a stronger inhibitor of poly(ADP-ribose) polymerase-1 and a more potent anticancer agent than is the parent inhibitor. <i>European Journal of Medicinal Chemistry</i> , 2014, 71, 366-373.	2.6	10
42	Room Temperature Aerobic Peroxidation of Organic Substrates Catalyzed by Cobalt(III) Alkylperoxo Complexes. <i>Journal of the American Chemical Society</i> , 2021, 143, 14445-14450.	6.6	10
43	Ru(II)- and Os(II)-Induced Cycloisomerization of Phenol-Tethered Alkyne for Functional Chromene and Chromone Complexes. <i>Organometallics</i> , 2020, 39, 1299-1309.	1.1	9
44	Luminescent rhenium(<i>III</i>) perfluorobiphenyl complexes as site-specific labels for peptides to afford photofunctional bioconjugates. <i>Chemical Communications</i> , 2021, 57, 11256-11259.	2.2	9
45	Luminescent monomeric and dimeric Ru(<i>II</i>) acyclic carbene complexes as selective sensors for NH ₃ /amine vapor and humidity. <i>Chemical Science</i> , 2021, 12, 14103-14110.	3.7	9
46	Acid-induced formation of hydrogen-bonded double helix based on chiral polyphenyl-bridged bis(2,2'-bipyridine) ligands. <i>RSC Advances</i> , 2014, 4, 14513-14526.	1.7	8
47	Slow magnetic relaxation in high-coordinate Co(<i>II</i>) and Fe(<i>II</i>) compounds bearing neutral tetradentate ligands. <i>Dalton Transactions</i> , 2021, 50, 15327-15335.	1.6	8
48	Oxidation of hydroquinones by a (salen)ruthenium(<i>VI</i>) nitrido complex. <i>Chemical Communications</i> , 2016, 52, 11430-11433.	2.2	7
49	Development of Dual Phosphorescent Materials Based on Multiple Stimuli-Responsive Ir(III) Acyclic Carbene Complexes. <i>CCS Chemistry</i> , 2022, 4, 2354-2368.	4.6	7
50	Efficient Pyrazolo[5,4- <i>h</i>]quinoxaline Functionalized Os(II) Based Emitter with an Electroluminescence Peak Maximum at 811 nm. <i>Chemistry - A European Journal</i> , 2022, 28, e202103202.	1.7	7
51	The Important Role of Coordination Geometry on Photophysical Properties of Blue-Green Emitting Ruthenium(II) Diisocyanato Complexes Bearing 2-Benzoxazol-2-ylphenolate. <i>Inorganic Chemistry</i> , 2019, 58, 11372-11381.	1.9	6
52	Electronic Communication in Luminescent Dicyanorhenate-Bridged Homotrinary Rhenium(I) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 6696-6705.	1.9	6
53	Catalytic water oxidation by an <i>in situ</i> generated ruthenium nitrosyl complex bearing a bipyridine-bis(alkoxide) ligand. <i>Dalton Transactions</i> , 2021, 50, 12316-12323.	1.6	6
54	Osmium(II)-Induced Rearrangement of Allenols for Metallafuran Complexes. <i>Organometallics</i> , 2022, 41, 1931-1941.	1.1	6

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55	Complex Metal-Organic Frameworks from Symmetrically Backfolded Dendrimers. <i>ChemistrySelect</i> , 2016, 1, 4075-4081.	0.7	5
56	Group 4 Post-Metallocenes Supported by [O ^{CH₂} ₂ N,C(<i>f</i> -aryl)] Auxiliaries Bearing a Seven-Membered Metallacycle: Synthesis, Characterization, and Catalysts for Olefin Polymerization. <i>Organometallics</i> , 2019, 38, 2963-2971.	1.1	5
57	Olefin Polymerization Reactivity of Group 4 Post-Metallocene Catalysts Bearing a Four-Membered C(sp ³)-Donor Chelate Ring. <i>ChemCatChem</i> , 2019, 11, 628-635.	1.8	5
58	Iron-induced cycloisomerization of alkynes via π -non-vinylidene-pathways for iron-indolizine and -indolizinone complexes. <i>Chemical Communications</i> , 2020, 56, 12644-12647.	2.2	5
59	Facile C-N bond cleavage of primary aliphatic amines by (salen)ruthenium(<i>vi</i>) nitrido complexes. <i>Dalton Transactions</i> , 2022, 51, 5404-5408.	1.6	4
60	Stepwise Access of Emissive Ir(III) Complexes Bearing a Multi-Dentate Heteroaromatic Chelate: Fundamentals and Applications. <i>Inorganic Chemistry</i> , 2022, 61, 4384-4393.	1.9	3
61	Reduction of Ru(VI)=N to Ru(III)=NH ₃ by Cysteine in Aqueous Solution. <i>Inorganic Chemistry</i> , 2018, 57, 5850-5858.	1.9	2
62	Ruthenafuran Complexes Supported by the Bipyridine-Bis(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies. <i>Molecules</i> , 2022, 27, 1709.	1.7	2
63	A New Tetradentate Mixed Aza-Thioether Macrocyclic and Its Complexation Behavior towards Fe(II), Ni(II) and Cu(II) Ions. <i>Molecules</i> , 2020, 25, 2030.	1.7	1
64	Highly Selective and Efficient Ring Hydroxylation of Alkylbenzenes with Hydrogen Peroxide and an Osmium(VI) Nitrido Catalyst. <i>Angewandte Chemie</i> , 2017, 129, 12428-12431.	1.6	0