Chun-Yuen Wong

List of Publications by Year
in descending order

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105 papers	3,843 citations	126708 33 h-index	149479 56 g-index
108 all docs	108 docs citations	108 times ranked	5400 citing authors

#	Article	IF	Citations
1	Modulating electronic structure of CoP electrocatalysts towards enhanced hydrogen evolution by Ce chemical doping in both acidic and basic media. Nano Energy, 2017, 38, 290-296.	8.2	212
2	Insight into the electrochemical activation of carbon-based cathodes for hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 13080-13086.	5.2	198
3	A Metalâ€Based Inhibitor of Tumor Necrosis Factorâ€Î±. Angewandte Chemie - International Edition, 2012, 51, 9010-9014.	7.2	158
4	Conjugating a groove-binding motif to an Ir(<scp>iii</scp>) complex for the enhancement of G-quadruplex probe behavior. Chemical Science, 2016, 7, 2516-2523.	3.7	150
5	Comparisons of microplastic pollution between mudflats and sandy beaches in Hong Kong. Environmental Pollution, 2018, 236, 208-217.	3.7	143
6	Selective Inhibition of Lysineâ€Specific Demethylase 5A (KDM5A) Using a Rhodium(III) Complex for Tripleâ€Negative Breast Cancer Therapy. Angewandte Chemie - International Edition, 2018, 57, 13091-13095.	7.2	125
7	Rational Design of Inverted Nanopencil Arrays for Cost-Effective, Broadband, and Omnidirectional Light Harvesting. ACS Nano, 2014, 8, 3752-3760.	7.3	106
8	Cell imaging of dopamine receptor using agonist labeling iridium(<scp>iii</scp>) complex. Chemical Science, 2018, 9, 1119-1125.	3.7	106
9	Surfactant-assisted chemical vapour deposition of high-performance small-diameter GaSb nanowires. Nature Communications, 2014, 5, 5249.	5.8	102
10	Structure-based optimization of FDA-approved drug methylene blue as a c-myc G-quadruplex DNA stabilizer. Biochimie, 2011, 93, 1055-1064.	1.3	88
11	Heavy metals contamination of sedimentary microplastics in Hong Kong. Marine Pollution Bulletin, 2020, 153, 110977.	2.3	81
12	Developing controllable anisotropic wet etching to achieve silicon nanorods, nanopencils and nanocones for efficient photon trapping. Journal of Materials Chemistry A, 2013, 1, 9942.	5.2	77
13	A Rhodium(III)-Based Inhibitor of Lysine-Specific Histone Demethylase 1 as an Epigenetic Modulator in Prostate Cancer Cells. Journal of Medicinal Chemistry, 2017, 60, 2597-2603.	2.9	71
14	A luminescence switch-on probe for terminal deoxynucleotidyl transferase (TdT) activity detection by using an iridium(<scp>iii</scp>)-based i-motif probe. Chemical Communications, 2015, 51, 9953-9956.	2.2	62
15	Probing Rutheniumâˆ'Acetylide Bonding Interactions:Â Synthesis, Electrochemistry, and Spectroscopic Studies of Acetylideâˆ'Ruthenium Complexes Supported by Tetradentate Macrocyclic Amine and Diphosphine Ligands. Journal of the American Chemical Society, 2005, 127, 13997-14007.	6.6	58
16	Emissive Osmium(II) Complexes Supported by N-Heterocyclic Carbene-based C^{â§}C^{â§}C-Pincer Ligands and Aromatic Diimines. Inorganic Chemistry, 2012, 51, 8693-8703.	1.9	58
17	Impacts of Typhoon Mangkhut in 2018 on the deposition of marine debris and microplastics on beaches in Hong Kong. Science of the Total Environment, 2020, 716, 137172.	3.9	58
18	Spatial distribution and source identification of hydrophobic organic compounds (HOCs) on sedimentary microplastic in Hong Kong. Chemosphere, 2019, 219, 418-426.	4.2	56

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19	Ruthenium(II) and Osmium(II) Complexes Bearing Bipyridine and the N-Heterocyclic Carbene-Based C^N^C Pincer Ligand: An Experimental and Density Functional Theory Study. Inorganic Chemistry, 2013, 52, 9885-9896.	1.9	55
20	Visualization of Zn²⁺ Ions in Live Zebrafish Using a Luminescent Iridium(III) Chemosensor. ACS Applied Materials & Interfaces, 2014, 6, 14008-14015.	4.0	54
21	Rapid visual and spectrophotometric nitrite detection by cyclometalated ruthenium complex. Analytica Chimica Acta, 2017, 990, 135-140.	2.6	45
22	Probing the Rutheniumâˆ'Cumulene Bonding Interaction:Â Synthesis and Spectroscopic Studies of Vinylideneâˆ' and Allenylideneâˆ'Ruthenium Complexes Supported by Tetradentate Macrocyclic Tertiary Amine and Comparisons with Diphosphine Analogues of Ruthenium and Osmiumâ€. Journal of the American Chemical Society, 2004, 126, 2501-2514.	6.6	44
23	Structureâ€Based Repurposing of FDAâ€Approved Drugs as TNFâ€Î± Inhibitors. ChemMedChem, 2011, 6, 765-768	1.6	43
24	One-pot synthesis of a self-reinforcing cascade bioreactor for combined photodynamic/chemodynamic/starvation therapy. Journal of Colloid and Interface Science, 2021, 599, 543-555.	5.0	43
25	Multifunctional oxygen-enriching nano-theranostics for cancer-specific magnetic resonance imaging and enhanced photodynamic/photothermal therapy. Nano Research, 2020, 13, 1389-1398.	5.8	41
26	Field test of beach litter assessment by commercial aerial drone. Marine Pollution Bulletin, 2020, 151, 110823.	2.3	39
27	Isolation of Rutheniumâ€“Indolizine Complexes: Insight into the Metal-Induced Cycloisomerization of Propargylic Pyridines. Organometallics, 2013, 32, 3583-3586.	1.1	38
28	Osmium Complexes Containing N-Heterocyclic Carbene-Based C,N,C-Pincer Ligands. Organometallics, 2010, 29, 2533-2539.	1.1	37
29	Isolation of Rutheniumâ€“Indoline and â^'Indole Zwitterion Complexes: Insight into the Metal-Induced Cyclization of Aniline-Tethered Alkynes and Strategy to Lower the Activation Barrier of Metalâ^'Vinylidene Formation. Organometallics, 2015, 34, 1963-1968.	1.1	37
30	Crystalline GaSb Nanowires Synthesized on Amorphous Substrates: From the Formation Mechanism to p-Channel Transistor Applications. ACS Applied Materials & Interfaces, 2013, 5, 10946-10952.	4.0	36
31	Synthesis, Spectroscopic and Theoretical Studies of Ruthenafuran and Osmafuran Prepared by Activation of Ynone in Alcohol. Organometallics, 2015, 34, 1005-1012.	1.1	35
32	Metalâ€“Indolizine Zwitterion Complexes as a New Class of Organometallic Material: a Spectroscopic and Theoretical Investigation. Organometallics, 2014, 33, 3443-3452.	1.1	33
33	Modulating Electrical Properties of InAs Nanowires via Molecular Monolayers. ACS Nano, 2015, 9, 7545-7552.	7.3	33
34	Carbon doping of InSb nanowires for high-performance p-channel field-effect-transistors. Nanoscale, 2013, 5, 9671.	2.8	32
35	Inhibition of the CDK9â€“cyclin T1 proteinâ€“protein interaction as a new approach against triple-negative breast cancer. Acta Pharmaceutica Sinica B, 2022, 12, 1390-1405.	5.7	32
36	Solvent Effects on the Oxidation of Ru^{IV}O to ORu^{VI}O by MnO₄⁻. Hydrogen-Atom versus Oxygen-Atom Transfer. Journal of the American Chemical Society, 2007, 129, 13646-13652.	6.6	30

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37	Phosphorescent Imaging of Living Cells Using a Cyclometalated Iridium(III) Complex. PLoS ONE, 2013, 8, e55751.	1.1	30
38	Ruthenium(II) Ïƒ-Acetylide and Carbene Complexes Supported by the Terpyridineâˆ'Bipyridine Ligand Set:Â Structural, Spectroscopic, and Photochemical Studiesâ€. Organometallics, 2004, 23, 2263-2272.	1.1	29
39	Ruthenium Carbene and Allenylidene Complexes Supported by the Tertiary Amineâˆ'Aromatic Diimine Ligand Set: Structural, Spectroscopic, and Theoretical Studies. Organometallics, 2008, 27, 5806-5814.	1.1	29
40	Facile Direct Insertion of Nitrosonium Ion (NO+) into a Rutheniumâˆ'Aryl Bond. Organometallics, 2011, 30, 1311-1314.	1.1	28
41	Ligand Perturbations on Fluorescence of Dinuclear Platinum Complexes of 5,12-Diethynyltetracene: A Spectroscopic and Computational Study. Organometallics, 2013, 32, 1620-1629.	1.1	27
42	Unraveling the Morphological Evolution and Etching Kinetics of Porous Silicon Nanowires During Metal-Assisted Chemical Etching. Nanoscale Research Letters, 2017, 12, 385.	3.1	27
43	Ruthenium(II) Isocyanide Complexes Supported by Triazacyclononane/Trithiacyclononane and Aromatic Diimine: Structural, Spectroscopic, and Theoretical Studies. Organometallics, 2009, 28, 3537-3545.	1.1	26
44	Ruthenium Complexes Containing 2-(2-Nitrosoaryl)pyridine: Structural, Spectroscopic, and Theoretical Studies. Inorganic Chemistry, 2011, 50, 11636-11643.	1.9	26
45	A Colorimetric and Luminescent Dual-Modal Assay for Cu(II) Ion Detection Using an Iridium(III) Complex. PLoS ONE, 2014, 9, e99930.	1.1	26
46	A metal-based tumour necrosis factor-alpha converting enzyme inhibitor. Chemical Communications, 2015, 51, 3973-3976.	2.2	26
47	Four-Electron Oxidation of Phenols to p-Benzoquinone Imines by a (Salen)ruthenium(VI) Nitrido Complex. Journal of the American Chemical Society, 2016, 138, 5817-5820.	6.6	25
48	Anticancer osmium complex inhibitors of the HIF-1Î± and p300 protein-protein interaction. Scientific Reports, 2017, 7, 42860.	1.6	25
49	Phosphoniumâ€Ringâ€Fused Bicyclic Metallafuran Complexes of Ruthenium and Osmium. Chemistry - A European Journal, 2019, 25, 9159-9163.	1.7	25
50	Rutheniumâ€Induced Cyclization of Heteroatomâ€Functionalized Alkynes: Progress, Challenges and Perspectives. Chemistry - A European Journal, 2020, 26, 6102-6112.	1.7	25
51	Proton-Bridged Dinuclear (salen)Ru Carbene Complexes: Synthesis, Structure, and Reactivity of {[(salchda)Ruâ•C(OR)(CHâ•CPh2)]2Â·H}+. Organometallics, 2008, 27, 324-326.	1.1	24
52	Noninnocent Behavior of Nitrosoareneâ€"Pyridine Hybrid Ligands: Ruthenium Complexes Bearing a 2â€(2â€Nitrosoaryl)Pyridine Monoanion Radical. ChemPlusChem, 2013, 78, 214-217.	1.3	24
53	Mechanistic Characteristics of Metal-Assisted Chemical Etching in GaAs. Journal of Physical Chemistry C, 2014, 118, 6903-6908.	1.5	24
54	Enhanced Negative Photoconductivity in InAs Nanowire Phototransistors Surfaceâ€Modified with Molecular Monolayers. Advanced Materials Interfaces, 2018, 5, 1701104.	1.9	24

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55	Dual Inhibition and Monitoring of Beta-Amyloid Fibrillation by a Luminescent Iridium(III) Complex. Current Alzheimer Research, 2015, 12, 439-444.	0.7	24
56	Long-lived iridium(III) complexes as luminescent probes for the detection of periodate in living cells. Sensors and Actuators B: Chemical, 2019, 288, 392-398.	4.0	23
57	Rutheniumâ€Induced Alkyne Cycloisomerization: Construction of Metalated Heterocycles, Revelation of Unconventional Reaction Pathways, and Exploration of Functional Applications. Chemistry - A European Journal, 2019, 25, 2889-2897.	1.7	23
58	Luminescent Ruthenium(II) Complex Bearing Bipyridine and N-Heterocyclic Carbene-based Câ§Nâ§C Pincer Ligand for Live-Cell Imaging of Endocytosis. Scientific Reports, 2015, 5, 9070.	1.6	22
59	A Bis(pyridyl)allenylidene Complex of Ruthenium: A â€œMolecular Clipâ€•That Displays Intense Near-Infrared Absorption upon Coordination to a Ruthenium(II) Center. Angewandte Chemie - International Edition, 2006, 45, 2694-2698.	7.2	21
60	Stereoselective Formation of Helical Binuclear Metal Complexes: Synthesis, Characterization, and Crystal Structures of Chiral Bis-Rhenium(I) Quaterpyridine Complexes. Inorganic Chemistry, 2009, 48, 4108-4117.	1.9	21
61	A Ruthenium(II) Complex Supported by Trithiacyclononane and Aromatic Diimine Ligand as Luminescent Switch-On Probe for Biomolecule Detection and Protein Staining. Scientific Reports, 2014, 4, 7136.	1.6	21
62	NIR-II-driven and glutathione depletion-enhanced hypoxia-irrelevant free radical nanogenerator for combined cancer therapy. Journal of Nanobiotechnology, 2021, 19, 265.	4.2	21
63	Photophysical and Theoretical Studies of Ruthenium(II)â^'Acetylide and â^'Cyanide Complexes with Aromatic Diimine and Trithiacyclononane. Organometallics, 2010, 29, 6259-6266.	1.1	20
64	Polymer-Confined Colloidal Monolayer: A Reusable Soft Photomask for Rapid Wafer-Scale Nanopatterning. ACS Applied Materials & Interfaces, 2014, 6, 20837-20841.	4.0	20
65	Trapping of the putative 1,2-dinitrosoarene intermediate of benzofuroxan tautomerization by coordination at ruthenium and exploration of its redox non-innocence. Chemical Science, 2014, 5, 3883-3887.	3.7	20
66	Intermediates in the Oxidative Degradation of a Rutheniumâ€Bound 2,2â€²â€Bipyridylâ€“Phenoxy Ligand during Catalytic Water Oxidation. ChemCatChem, 2018, 10, 501-504.	1.8	20
67	Metalated Chromene and Chromone Complexes: pH Switchable Metalâ€“Carbon Bonding Interaction, Photoâ€triggerable Chromone Delivery Application, and Antioxidative Activity. Chemistry - A European Journal, 2018, 24, 1779-1783.	1.7	20
68	Ruthenium Acetylide Complexes Supported by Trithiacyclononane and Aromatic Diimine: Structural, Spectroscopic, and Theoretical Studies. Organometallics, 2009, 28, 5656-5660.	1.1	19
69	Ambipolar charge transport and electroluminescence properties of ZnO nanorods. Applied Physics Letters, 2008, 93, 023502.	1.5	18
70	A rhodium(III) complex inhibits LPS-induced nitric oxide production and angiogenic activity in cellulo. Journal of Inorganic Biochemistry, 2014, 140, 23-28.	1.5	18
71	A bioactive ligand-conjugated iridium(III) metal-based complex as a Keap1â€“Nrf2 protein-protein interaction inhibitor against acetaminophen-induced acute liver injury. Redox Biology, 2021, 48, 102129.	3.9	18
72	Rutheniumâ€“indolizinone 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. Dalton Transactions, 2018, 47, 12838-12842.	1.6	17

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73	Optical Nanoscale Patterning Through Surfaceâ€Textured Polymer Films. Advanced Optical Materials, 2014, 2, 855-860.	3.6	16
74	Hierarchical silicon nanostructured arrays via metal-assisted chemical etching. RSC Advances, 2014, 4, 50081-50085.	1.7	15
75	8-Quinolinolato complexes of ruthenium(II) and (III). Inorganica Chimica Acta, 2009, 362, 1149-1157.	1.2	14
76	Cadmium Sulfide Silver Nanoplate Hybrid Structure: Synthesis and Fluorescence Enhancement. Journal of Physical Chemistry C, 2011, 115, 21604-21609.	1.5	14
77	Luminescent Iridium(III) Complexes Supported by N-Heterocyclic Carbene-based C^C^C-Pincer Ligands and Aromatic Diimines. Scientific Reports, 2015, 5, 15394.	1.6	14
78	Tumor acidity-activatable photothermal/Fenton nanoagent for synergistic therapy. Journal of Colloid and Interface Science, 2022, 612, 355-366.	5.0	14
79	High-gain optical amplification in Eu^3+-doped polymer. Optics Letters, 2010, 35, 520.	1.7	13
80	Isolation of a C3-metalated indolizine complex and a phosphonium ring-fused bicyclic metallafuran from the osmium-induced transformation of pyridine-tethered alkynes. Faraday Discussions, 2019, 220, 196-207.	1.6	13
81	Controlled Activation of Dipicolinyl-Substituted Propargylic Alcohol by Ru(II) and Os(II) for Unprecedented Indolizine-Fused Metallafuran Complexes. Organometallics, 2021, 40, 2458-2466.	1.1	13
82	Spectroscopic Studies and Structures oftrans-Ruthenium(II) and Ruthenium(III) Bis(cyanide) Complexes Supported by a Tetradentate Macrocyclic Tertiary Amine Ligand. Inorganic Chemistry, 2008, 47, 10308-10316.	1.9	12
83	Conventional and unconventional alkyne activations by Ru and Os for unprecedented dimetalated quinolizinium complexes. Chemical Communications, 2020, 56, 8908-8911.	2.2	12
84	The significance of trophic transfer in the uptake of microplastics by carnivorous gastropod Reishia clavigera. Environmental Pollution, 2022, 298, 118862.	3.7	12
85	Rhodium(III)-Based Inhibitor of the JMJD3-H3K27me3 Interaction and Modulator of the Inflammatory Response. Inorganic Chemistry, 2018, 57, 14023-14026.	1.9	11
86	Recent developments in rutheniumâ€“nitrosoarene chemistry: Unconventional synthetic strategies, new ligand designs, and exploration of ligands redox non-innocence. Coordination Chemistry Reviews, 2020, 402, 213082.	9.5	11
87	The role of metal film electron density in a surface plasmon polariton assisted light emitter. Nanotechnology, 2010, 21, 055203.	1.3	10
88	Helical Complexes of Chiral Quaterpyridines â€“ Mononuclear Cu^{II} and Dinuclear Cu^I Complexes. European Journal of Inorganic Chemistry, 2011, 2011, 5112-5124.	1.0	10
89	Enhanced Self-Assembly of Crystalline, Large-Area, and Periodicity-Tunable TiO₂ Nanotube Arrays on Various Substrates. ACS Applied Materials & Interfaces, 2017, 9, 6265-6272.	4.0	10
90	Trends for the crystallinity, optical and electrical properties of post-thermal annealed ZnO nanorods. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 80-84.	1.7	9

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91	Ru(II)- and Os(II)-Induced Cycloisomerization of Phenol-Tethered Alkyne for Functional Chromene and Chromone Complexes. Organometallics, 2020, 39, 1299-1309.	1.1	9
92	Zwitterion-Induced Organicâ€“Metal Hybrid Catalysis in Aerobic Oxidation. ACS Catalysis, 2021, 11, 3498-3506.	5.5	9
93	Mechanistic insight into organic and industrial transformations: general discussion. Faraday Discussions, 2019, 220, 282-316.	1.6	8
94	Goldâ€Clipâ€Assisted Selfâ€Assembly and Protonâ€Coupled Expansionâ€“Contraction of a Cofacial Fe^{III}â€“Porphyrin Cage. Chemistry - A European Journal, 2018, 24, 18623-18628.	1.7	7
95	A focused review on the unconventional alkyne activations by ruthenium(II) and osmium(II) complexes supported by 1,2-bis(diphenylphosphino)methane (dppm). Polyhedron, 2021, 197, 115023.	1.0	7
96	Osmium(II)-Induced Rearrangement of Allenols for Metallafuran Complexes. Organometallics, 2022, 41, 1931-1941.	1.1	6
97	Iron(<scp>ii</scp>)-induced cycloisomerization of alkynes via â€œnon-vinylideneâ€•pathways for iron(<scp>ii</scp>)-indolizine and -indolizinone complexes. Chemical Communications, 2020, 56, 12644-12647.	2.2	5
98	Synthesis, Spectroscopic and Computational Studies of Rhodium(III) Complexes Bearing Nâ€Heterocyclic Carbeneâ€Based C[^]N[^]C Pincer Ligand and Bipyridine/Terpyridine. European Journal of Inorganic Chemistry, 2020, 2020, 2343-2351.	1.0	2
99	Ruthenafuran Complexes Supported by the Bipyridine-Bis(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies. Molecules, 2022, 27, 1709.	1.7	2
100	A New Tetradentate Mixed Aza-Thioether Macrocycle and Its Complexation Behavior towards Fe(II), Ni(II) and Cu(II) Ions. Molecules, 2020, 25, 2030.	1.7	1
101	Patterning: Optical Nanoscale Patterning Through Surface-Textured Polymer Films (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Ove	3.6	0
102	Frontispiece: Metalated Chromene and Chromone Complexes: pH Switchable Metalâ€“Carbon Bonding Interaction, Photoâ€triggerable Chromone Delivery Application, and Antioxidative Activity. Chemistry - A European Journal, 2018, 24, .	1.7	0
103	Understanding unusual element-element bond formation and activation: general discussion. Faraday Discussions, 2019, 220, 376-385.	1.6	0
104	Physical methods for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 144-178.	1.6	0
105	Frontispiece: Rutheniumâ€Induced Cyclization of Heteroatomâ€Functionalized Alkynes: Progress, Challenges and Perspectives. Chemistry - A European Journal, 2020, 26, .	1.7	0