

Ming Wah Wong

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

3,643

citations

26

h-index

59

g-index

96

ext. papers

4,168

ext. citations

6.2

avg, IF

5.71

L-index

#	Paper	IF	Citations
88	Solvent effects. 1. The mediation of electrostatic effects by solvents. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4776-4782	16.4	880
87	Solvent effects. 3. Tautomeric equilibria of formamide and 2-pyridone in the gas phase and solution: an ab initio SCRF study. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1645-1652	16.4	484
86	Radical Addition to Alkenes: Further Assessment of Theoretical Procedures. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 2237-2245	2.8	142
85	Synthesis of a chiral quaternary carbon center bearing a fluorine atom: enantio- and diastereoselective guanidine-catalyzed addition of fluorocarbon nucleophiles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3627-31	16.4	129
84	Prediction of a Metastable Helium Compound: HHeF. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6289-6290	16.4	128
83	Oxyanion hole stabilization by C-H...O interaction in a transition state--a three-point interaction model for Cinchona alkaloid-catalyzed asymmetric methanolysis of meso-cyclic anhydrides. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5808-18	16.4	126
82	Multiphoton harvesting metal-organic frameworks. <i>Nature Communications</i> , 2015 , 6, 7954	17.4	122
81	Saturated hydrocarbon-benzene complexes: theoretical study of cooperative CH/pi interactions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 9702-9	2.8	109
80	Diallyl Trisulfide Is a Fast H ₂ S Donor, but Diallyl Disulfide Is a Slow One: The Reaction Pathways and Intermediates of Glutathione with Polysulfides. <i>Organic Letters</i> , 2015 , 17, 4196-9	6.2	108
79	Fluoride Ion Receptors Based on Dipyrrolyl Derivatives Bearing Electron-Withdrawing Groups: Synthesis, Optical and Electrochemical Sensing, and Computational Studies. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11249-11259	2.8	107
78	Column Characterization and Selection Systems in Reversed-Phase High-Performance Liquid Chromatography. <i>Chemical Reviews</i> , 2019 , 119, 3674-3729	68.1	91
77	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7213-7219	16.4	68
76	α-Amino acid catalyzed asymmetric Michael additions: design of organocatalysts with catalytic acid/base dyad inspired by serine proteases. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7399-405	4.2	65
75	Diastereo- and Atroposelective Synthesis of Bridged Biaryls Bearing an Eight-Membered Lactone through an Organocatalytic Cascade. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17062-17067	16.4	54
74	Cinchona Alkaloid-Squaramide Catalyzed Sulfa-Michael Addition Reaction: Mode of Bifunctional Activation and Origin of Stereoinduction. <i>Journal of Organic Chemistry</i> , 2017 , 82, 4362-4368	4.2	48
73	Mechanistic insights into bicyclic guanidine-catalyzed reactions from microscopic and macroscopic perspectives. <i>Journal of Organic Chemistry</i> , 2015 , 80, 5745-52	4.2	47
72	Structures, bonding, and absorption spectra of amine-sulfur dioxide charge-transfer complexes. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7527-7535	16.4	42

71	Desymmetrizing Enantio- and Diastereoselective Selenoetherification through Supramolecular Catalysis. <i>ACS Catalysis</i> , 2018 , 8, 850-858	13.1	41
70	Sequential catalytic role of bifunctional bicyclic guanidine in asymmetric phospho-Michael reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 4550-7	3.9	40
69	In Silico Design of Halogen-Bonding-Based Organocatalyst for Diels-Alder Reaction, Claisen Rearrangement, and Cope-Type Hydroamination. <i>Journal of Organic Chemistry</i> , 2016 , 81, 7459-70	4.2	37
68	Mechanistic studies of the influence of halogen substituents on the corrosion inhibitive efficiency of selected imidazole molecules: A synergistic computational and experimental approach. <i>Applied Surface Science</i> , 2019 , 471, 494-505	6.7	36
67	Asymmetric Michael Addition Using Bifunctional Bicyclic Guanidine Organocatalyst: A Theoretical Perspective. <i>Australian Journal of Chemistry</i> , 2014 , 67, 1100	1.2	34
66	Miscibility and Interactions in Blends and Complexes of Poly[2-(dimethylamino)ethyl methacrylate] with Poly(p-vinylphenol). <i>Macromolecules</i> , 1999 , 32, 4327-4331	5.5	32
65	Prediction of corrosion inhibition efficiency of pyridines and quinolines on an iron surface using machine learning-powered quantitative structure-property relationships. <i>Applied Surface Science</i> , 2020 , 512, 145612	6.7	31
64	Origin of asymmetric induction in bicyclic guanidine-catalyzed thio-Michael reaction: a bifunctional mode of Lewis acid-Brønsted acid activation. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6553-62	4.2	31
63	Interpretation of ANN-based QSAR models for prediction of antioxidant activity of flavonoids. <i>Journal of Computational Chemistry</i> , 2018 , 39, 953-963	3.5	28
62	Three-component reactions of isocyanoacetates, amines and 3-formylchromones initiated by an unexpected aza-Michael addition. <i>Chemical Communications</i> , 2017 , 53, 9067-9070	5.8	24
61	Application of Halogen Bonding to Organocatalysis: A Theoretical Perspective. <i>Molecules</i> , 2020 , 25,	4.8	23
60	Rapid and Visual Detection and Quantitation of Ethylene Released from Ripening Fruits: The New Use of Grubbs Catalyst. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 507-513	5.7	23
59	Access to Enantiopure Triarylmethanes and 1,1-Diaryllkanes by NHC-Catalyzed Acylative Desymmetrization. <i>Chemistry - A European Journal</i> , 2017 , 23, 2275-2281	4.8	22
58	Influence of Fluorine Substitution on the Unusual Solid-State [2 + 2] Photo-Cycloaddition Reaction between an Olefin and an Aromatic Ring. <i>Crystal Growth and Design</i> , 2015 , 15, 4055-4061	3.5	22
57	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 7289-7295	3.6	22
56	Halogen-Bonding-Induced Conjugate Addition of Thiophenes to Enones and Enals. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2656-2661	4.5	19
55	Non-Linear Quantitative Structure?Activity Relationships Modelling, Mechanistic Study and In-Silico Design of Flavonoids as Potent Antioxidants. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	18
54	povel isomers of hexasulfur: Prediction of a stable prism isomer and implications for the thermal reactivity of elemental sulfur. <i>Journal of Chemical Physics</i> , 2004 , 121, 5899-907	3.9	18

53	Structures and vibrational spectra of the sulfur-rich oxides SnO (n = 4-9): the importance of pi*-pi* interactions. <i>Chemistry - A European Journal</i> , 2007 , 13, 502-14	4.8	17
52	Nature of halogen bonding involving E systems, nitroxide radicals and carbenes: a highlight of the importance of charge transfer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26463-26478	3.6	17
51	Isomers of cyclo-heptasulfur and their coordination to Li(+): an ab initio molecular orbital study. <i>Inorganic Chemistry</i> , 2005 , 44, 8908-15	5.1	16
50	Characterization of New Sulfide Ions (C2S3) from Ethenedithione by Ion-Molecule Reactions. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 3666-3671	2.8	16
49	Cu-Catalyzed [3 + 3] Cycloaddition of Isocyanacetates with Aziridines and Stereoselective Access to Diamino Acids. <i>Organic Letters</i> , 2018 , 20, 5112-5115	6.2	15
48	Substituent Effects on Ring Opening of 2-Furylcarbenes: An ab Initio Study. <i>Journal of Organic Chemistry</i> , 1999 , 64, 9170-9174	4.2	14
47	Atmosphere- and Temperature-Controlled Regioselective Aminobromination of Olefins. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 234-239	5.6	13
46	Iodoimidazolium-Catalyzed Reduction of Quinoline by Hantzsch Ester: Halogen Bond or Brønsted Acid Catalysis. <i>Journal of Organic Chemistry</i> , 2019 , 84, 10338-10348	4.2	13
45	Roles of C-H...O=S and pi-stacking interactions in the 2-bromoacrolein complex with N-tosyl-(S)-tryptophan-derived oxazaborolidinone catalyst. <i>Journal of Organic Chemistry</i> , 2005 , 70, 5487-5493	4.3	13
44	Site specificity of halogen bonding involving aromatic acceptors. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8685-8694	3.6	12
43	Coordination of Li+, Ca+, V+, and Cu+ to the Molecules S8 and S4: A Computational Study. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2514-2525	2.3	12
42	Specific Interactions in Miscible Poly(p-vinylphenol)/Poly(N-methyl-3-piperidinemethyl methacrylate) Blends. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 31-35	2.6	12
41	Structures of the trisulfur oxides S3O and S3O+: branched rings, not open chains. <i>Chemical Communications</i> , 2005 , 3712-4	5.8	11
40	Target-based drug discovery through inversion of quantitative structure-drug-property relationships and molecular simulation: CA IX-sulphonamide complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 1430-1443	5.6	11
39	Pentandium-Catalyzed Asymmetric Phase-Transfer Conjugate Addition: Prediction of Stereoselectivity via DFT Calculations and Docking Sampling of Transition States, and Origin of Stereoselectivity. <i>Australian Journal of Chemistry</i> , 2016 , 69, 983	1.2	10
38	Does Halogen Bonding Promote Intersystem Crossing and Phosphorescence in Benzaldehyde?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12441-12447	3.8	10
37	Singlet oxygen probes made simple: Anthracenylmethyl substituted fluorophores as reaction-based probes for detection and imaging of cellular 1O2. <i>Sensors and Actuators B: Chemical</i> , 2018 , 271, 346-352	8.5	10
36	Anion recognition by azophenol thiourea-based chromogenic sensors: a combined DFT and molecular dynamics investigation. <i>Journal of Molecular Modeling</i> , 2013 , 19, 205-13	2	9

35	Unconventional Bifunctional Lewis-Bronsted Acid Activation Mode in Bicyclic Guanidine-Catalyzed Conjugate Addition Reactions. <i>Molecules</i> , 2015 , 20, 15108-21	4.8	9
34	Machine learning in prediction of intrinsic aqueous solubility of drug-like compounds: Generalization, complexity, or predictive ability?. <i>Journal of Chemometrics</i> , 2021 , 35, e3349	1.6	9
33	Coupling Reactions of Alkynyl Indoles and CO by Bicyclic Guanidine: Origin of Catalytic Activity?. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1780-1789	4.5	9
32	Improved synthesis dimethylhomococordinthron (HOCD) and its functionalization through facile amination reactions. <i>Dyes and Pigments</i> , 2016 , 130, 154-161	4.6	7
31	Roles of electrostatic interaction and dispersion in $\text{CH}_2=\text{CH}_2$, $\text{CH}_2=\text{CH}_2$ and C_2H_4 ethylene dimers. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2185	2	7
30	Mesoions and ketene valence isomers. Pyrrolo[1,2-a]pyridinium olates and (2-pyridyl)carbonylketenes. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 401-406		7
29	Dietary Flavonoids Scavenge Hypochlorous Acid via Chlorination on A- and C-Rings as Primary Reaction Sites: Structure and Reactivity Relationship. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 4346-4354	5.7	6
28	Modeling halogen bonding with planewave density functional theory: Accuracy and challenges. <i>Journal of Computational Chemistry</i> , 2019 , 40, 1829-1835	3.5	6
27	Mechanistic Chromatographic Column Characterization for the Analysis of Flavonoids Using Quantitative Structure-Retention Relationships Based on Density Functional Theory. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
26	Photo-induced $\text{C}=\text{N}$ bond activation of N,N'-dialkylethylenediamine upon aza-Michael addition to 1,8-pyrenedione: facile synthesis of fluorescent pyrene derivatives. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 1679-1683	5.2	6
25	Gehorcht Ethendithion ($\text{S}=\text{C}=\text{C}=\text{S}$) der Hundschen Regel?. <i>Angewandte Chemie</i> , 1998 , 110, 3587-3589	3.6	6
24	The thermal fragmentation of 1,6-dioxo-6a β -thiapentalenes: formation of acylthioketenes and thioacylketenes. <i>Perkin Transactions II RSC</i> , 2001 , 2047-2052		6
23	Guanidine-catalyzed asymmetric Strecker reaction: modes of activation and origin of stereoselectivity. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 1099-1108	0.9	5
22	Quantitative Structure-Retention Relationships with Non-Linear Programming for Prediction of Chromatographic Elution Order. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
21	Automatic Conformational Search of Transition States for Catalytic Reactions Using Genetic Algorithm. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10303-10314	2.8	5
20	π -Complexed polyfluoroarenes: a reactivity, bonding and spectroscopic study of $(\text{C}_6\text{F}_6)\text{Cr}(\text{C}_6\text{H}_6)$ and related molecules. <i>New Journal of Chemistry</i> , 2011 , 35, 2066	3.6	5
19	Interactions of zinc aqua complexes with ovalbumin at the forefront of the $\text{Zn}^{2+}/\text{ZnO}$ -OVO hybrid complex formation mechanism. <i>Applied Surface Science</i> , 2021 , 542, 148641	6.7	5
18	Affinity of Antifungal Isoxazolo[3,4-]pyridine-3(1)-Ones to Phospholipids in Immobilized Artificial Membrane (IAM) Chromatography. <i>Molecules</i> , 2020 , 25,	4.8	4

17	Potency Increase of Spiroketal Analogs of Membrane Inserting Indolyl Mannich Base Antimycobacterials Is Due to Acquisition of MmpL3 Inhibition. <i>ACS Infectious Diseases</i> , 2020 , 6, 1882-1893 ^{5.5}	4
16	S3O2--an unusual structure with pi*-pi* interaction. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 1292-7	3.6 4
15	Gauche/Trans Equilibria of 2,2Ebi-1,3-dioxanyl, 2,2EDimethyl-2,2Ebi-1,3-dioxanyl, 2,2Ebi-1,3-dithianyl, and 2,2EDimethyl-2,2Ebi-1,3-dithianyl in Different Media. Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 6714-6719	2.8 4
14	Rotational isomerism and crystal structures of 2,2?-diphenyl-2,2?-bi-1,3-dithianyl and 2,2?-diphenyl-2,2?-bi-1,3-dioxolanyl. <i>Perkin Transactions II RSC</i> , 2000 , 2090-2095	4
13	Gauche/Trans Equilibria of 2,2Ebi-1,3-dioxepanyl and 2,2Ebi-1,3-dithiepanyl in Different Media Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 6874-6878	2.8 3
12	Gauche/trans equilibria of 2,2?-bi-1,3-dioxolanyl, 2,2?-dimethyl-2,2?-bi-1,3-dioxolanyl, 2,2?-bi-1,3-dithiolanyl and 2,2?-dimethyl-2,2?-bi-1,3-dithiolanyl in different media theory and experiment. <i>New Journal of Chemistry</i> , 2002 , 26, 1686-1692	3.6 3
11	Radical Addition to Alkenes: A Theoretical Perspective. <i>ACS Symposium Series</i> , 1998 , 31-49	0.4 3
10	Machine Learning in Prediction of Intrinsic Aqueous Solubility of Drug-like Compounds: Generalization, Complexity or Predictive Ability?	3
9	Bicyclic Guanidine-Catalyzed Asymmetric Cycloaddition Reaction of Anthrones-Bifunctional Binding Modes and Origin of Stereoselectivity. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15139-15153	4.2 3
8	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. <i>Chemical Science</i> , 2021 , 12, 11659-11667	9.4 3
7	Prediction of Chromatographic Elution Order of Analytical Mixtures Based on Quantitative Structure-Retention Relationships and Multi-Objective Optimization. <i>Molecules</i> , 2020 , 25,	4.8 2
6	Asymmetric Nucleophilic Allylation of EChloro Glycinate via Squaramide Anion-Abstraction Catalysis: S1 or S2 Mechanism, or Both?. <i>Journal of Organic Chemistry</i> , 2021 , 86, 8414-8424	4.2 2
5	Halogen Bonding in Haspin-Halogenated Tubercidin Complexes: Molecular Dynamics and Quantum Chemical Calculations.. <i>Molecules</i> , 2022 , 27,	4.8 1
4	Enhanced anti-corrosive properties of thiabendazoles: A computational study. <i>Progress in Organic Coatings</i> , 2021 , 161, 106551	4.8 1
3	Tailoring long-range superlattice chirality in molecular self-assemblies weak fluorine-mediated interactions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21489-21495	3.6 0
2	In silico characterization and prediction of thiourea-like neutral bidentate halogen bond catalysts. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7051-7060	3.9 0
1	The study of the molecular mechanism of Lactobacillus paracasei clumping via divalent metal ions by electrophoretic separation. <i>Journal of Chromatography A</i> , 2021 , 1652, 462127	4.5 0