Chin-Hung Lai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3721250/publications.pdf

Version: 2024-02-01

		236612	168136
85	2,891	25	53
papers	citations	h-index	g-index

86	86	86	3725
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2,3-Disubstituted Thiophene-Based Organic Dyes for Solar Cells. Chemistry of Materials, 2008, 20, 1830-1840.	3.2	401
2	Multifunctional Deepâ€Blue Emitter Comprising an Anthracene Core and Terminal Triphenylphosphine Oxide Groups. Advanced Functional Materials, 2009, 19, 560-566.	7.8	242
3	A Bipolar Host Material Containing Triphenylamine and Diphenylphosphorylâ€Substituted Fluorene Units for Highly Efficient Blue Electrophosphorescence. Advanced Functional Materials, 2009, 19, 2834-2843.	7.8	196
4	Simple organic molecules bearing a 3,4-ethylenedioxythiophene linker for efficient dye-sensitized solar cells. Chemical Communications, 2008, , 5152.	2.2	195
5	Extensive spectral tuning of the proton transfer emission from 550 to 675 nm via a rational derivatization of 10-hydroxybenzo[h]quinoline. Chemical Communications, 2006, , 4395.	2.2	145
6	A New Series of Quadrupolar Type Twoâ€Photon Absorption Chromophores Bearing 11, 12â€Dibutoxydibenzo[a,c]â€phenazine Bridged Amines; Their Applications in Twoâ€Photon Fluorescence Imaging and Twoâ€Photon Photodynamic Therapy. Advanced Functional Materials, 2009, 19, 2388-2397.	7.8	133
7	Excited-State Intramolecular Proton Transfer Molecules Bearing o-Hydroxy Analogues of Green Fluorescent Protein Chromophore. Journal of Organic Chemistry, 2011, 76, 8189-8202.	1.7	118
8	Pyreno[2,1-b]pyrrole and Bis(pyreno[2,1-b]pyrrole) as Selective Chemosensors of Fluoride Ion:Â A Mechanistic Study. Journal of Organic Chemistry, 2007, 72, 3537-3542.	1.7	106
9	Harvesting Highly Electronically Excited Energy to Triplet Manifolds: State-Dependent Intersystem Crossing Rate in Os(II) and Ag(I) Complexes. Journal of the American Chemical Society, 2012, 134, 7715-7724.	6.6	101
10	Neutral, panchromatic Ru(ii) terpyridine sensitizers bearing pyridine pyrazolate chelates with superior DSSC performance. Chemical Communications, 2009, , 5844.	2.2	96
11	Mesomorphism and Luminescence Properties of Platinum(II) Complexes with Tris(alkoxy)phenylâ€Functionalized Pyridyl Pyrazolate Chelates. Chemistry - A European Journal, 2011, 17, 546-556.	1.7	71
12	New Family of Rutheniumâ€Dyeâ€Sensitized Nanocrystalline TiO₂ Solar Cells with a High Solarâ€Energyâ€Conversion Efficiency. Advanced Functional Materials, 2007, 17, 2964-2974.	7.8	67
13	Cyclometalated Platinum(II) Complexes of Lepidine-Based Ligands as Highly Efficient Electrophosphors. Organometallics, 2010, 29, 3912-3921.	1.1	67
14	Dual Excited-State Intramolecular Proton Transfer Reaction in 3-Hydroxy-2-(pyridin-2-yl)-4H-chromen-4-one. Journal of Physical Chemistry A, 2009, 113, 205-214.	1.1	58
15	Femtosecond Dynamics on 2-(2â€²-Hydroxy-4â€²-diethylaminophenyl)benzothiazole: Solvent Polarity in the Excited-State Proton Transfer. ChemPhysChem, 2006, 7, 1372-1381.	1.0	55
16	Synthesis, spectroscopy, crystal structure, TGA/DTA study, DFT and molecular docking investigations of (E)-4-(4-methylbenzyl)-6-styrylpyridazin-3(2H)-one. Journal of Molecular Structure, 2021, 1228, 129435.	1.8	55
17	Synthesis and characterization of novel Cu (II) and Zn (II) complexes of 5-{[(2-Hydroxyethyl) sulfanyl] methyl}-8-hydroxyquinoline as effective acid corrosion inhibitor by experimental and computational testings. Chemical Physics Letters, 2020, 754, 137771.	1.2	50
18	Tuning Excited-State Electron Transfer from an Adiabatic to Nonadiabatic Type in Donorâ^'Bridgeâ^'Acceptor Systems and the Associated Energy-Transfer Process. Journal of Physical Chemistry A, 2006, 110, 12136-12144.	1.1	46

#	Article	IF	Citations
19	Synthesis, spectroscopic characterization, crystal structure, DFT, molecular docking and inÂvitro antibacterial potential of novel quinoline derivatives. Journal of Molecular Structure, 2020, 1209, 127940.	1.8	40
20	Syntheses, Photophysics, and Application of Iridium(III) Phosphorescent Emitters for Highly Efficient, Longâ€Life Organic Lightâ€Emitting Diodes. Chemistry - an Asian Journal, 2009, 4, 742-753.	1.7	36
21	Excitedâ€State Double Proton Transfer in Model Base Pairs: The Stepwise Reaction on the Heterodimer of 7â€Azaindole Analogues. ChemPhysChem, 2008, 9, 293-299.	1.0	34
22	Synthesis, structure and electroluminescent properties of cyclometalated iridium complexes possessing sterically hindered ligands. Dalton Transactions, 2007, , 3025.	1.6	32
23	Multiple 3D- and 2D-quantitative structureâ€“activity relationship models (QSAR), theoretical study and molecular modeling to identify structural requirements of imidazopyridine analogues as anti-infective agents against tuberculosis. Structural Chemistry, 2022, 33, 679-694.	1.0	31
24	Theoretical Investigation of Cheletroptic Decarbonylation Reactions. Journal of Chemical Theory and Computation, 2006, 2, 1078-1084.	2.3	26
25	Osmium Complexes with Tridentate 6-Pyrazol-3-yl 2,2â€²-Bipyridine Ligands: Coarse Tuning of Phosphorescence from the Red to the Near-Infrared Region. Chemistry - an Asian Journal, 2007, 2, 155-163.	1.7	25
26	15-Crown-5 Functionalized Au Nanoparticles Synthesized via Single Molecule Exchange on Silica Nanoparticles: Its Application to Probe 15-Crown-5/K⁺/15-Crown-5 â€œSandwichesâ€•as Linking Mechanisms. Journal of Physical Chemistry C, 2009, 113, 1686-1693.	1.5	23
27	Novel Oxazabicycles as a New Class of Photochromic Colorants. Organic Letters, 2007, 9, 5287-5290.	2.4	22
28	Can an OH radical form a strong hydrogen bond? A theoretical comparison with H2O. Journal of Computational Chemistry, 2007, 28, 1357-1363.	1.5	21
29	Effects of First-Row Substituents on Siliconâ^'Phosphorus Triple Bonds. Inorganic Chemistry, 2002, 41, 1320-1322.	1.9	20
30	Performance of triazole derivatives as potential corrosion in-hibitors for mild steel in a strong phosphoric acid medium: Combining experimental and computational (DFT, MDs & QSAR) approaches. Journal of Molecular Structure, 2022, 1256, 132515.	1.8	18
31	Copper(I)-Catalyzed Nitrile-Addition/N-Arylation Ring-Closure Cascade: Synthesis of 5,11-Dihydro-6H-indolo[3,2-c]quinolin-6-ones as Potent Topoisomerase-I Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 1435-1453.	2.9	17
32	Dual Fluorescent Photochromic Colorants Bearing Pyrano[3,2-c]chromen-5-one Moiety. Journal of Physical Chemistry A, 2009, 113, 9321-9328.	1.1	16
33	Isomerization reactions of RSNO (R=H, C n H2n+1 nâ‰ 4). Theoretical Chemistry Accounts, 2006, 117, 145-152.	0.5	15
34	Photoisomerization of a Maleonitrileâ€Type Salen Schiff Base and Its Application in Fineâ€Tuning Infinite Coordination Polymers. Chemistry - A European Journal, 2010, 16, 3770-3782.	1.7	15
35	B3LYP and CCSD(T) Studies of the Mechanisms of Unimolecular Reactions of HXCS (X = H and F). Journal of Physical Chemistry A, 2001, 105, 6932-6937.	1.1	14
36	Theoretical characterizations of HAsXH (X = N, P, As, Sb, and Bi) isomers in the singlet and triplet states. Journal of Computational Chemistry, 2008, 29, 2487-2499.	1.5	14

#	Article	IF	Citations
37	Palladium-Catalyzed Stereoselective Aza-Wackerâ€“Heck Cyclization: One-Pot Stepwise Strategy toward Tetracyclic Fused Heterocycles. Organic Letters, 2020, 22, 9337-9341.	2.4	14
38	Exploring the twisted molecular configurations for tuning their optical and nonlinear optical response properties: A quantum chemical approach. Journal of Molecular Graphics and Modelling, 2021, 102, 107766.	1.3	14
39	A systematic study of the effects of thionation in naphthalene dimide derivatives to tune their nonlinear optical properties. Journal of Molecular Graphics and Modelling, 2019, 87, 68-75.	1.3	13
40	Two-photon absorption chromophores with a tunable [2,2â€²]bithiophene core. Tetrahedron, 2006, 62, 8467-8473.	1.0	12
41	Cyano Analogues of 7â€Azaindole: Probing Excitedâ€State Chargeâ€Coupled Proton Transfer Reactions in Protic Solvents. ChemPhysChem, 2008, 9, 2221-2229.	1.0	11
42	A computational study on the capability of boraneâ€cyclic boryl anion adducts to act as hydrogen atom donors. Journal of Computational Chemistry, 2010, 31, 2258-2262.	1.5	10
43	Synthesis, crystal structure, Hirshfeld surface analysis, and DFT calculations of new 1-[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]-6-methoxy-1H-benzimidazol-2(3H)-one. Chemical Data Collections, 2018, 17-18, 472-482.	1.1	10
44	Synthesis, anticancer evaluation inÂvitro, DFT, Hirshfeld surface analysis of some new 4-(1,3-benzothiazol-2-yl)-3-methyl-1-phenyl-4,5-dihydro-1H-pyrazol-5-one derivatives. Journal of Molecular Structure, 2019, 1198, 126910.	1.8	10
45	Synthesis, spectroscopic characterization, thermal, XRD crystal structure, the PLATON structural analysis, and theoretical studies of a new 1,2,4-triazolo-[1,5-a]pyrimidines derivatives. Journal of Molecular Structure, 2019, 1184, 12-24.	1.8	10
46	Synthesis, Crystal structure, Hirshfeld surface Analysis and computational approach of new 2-methylbenzimidazo[1,2-a]pyrimidin-4(1H)-one. Journal of Molecular Structure, 2021, 1239, 130497.	1.8	10
47	Relative stability of multiple bonds between germanium and arsenic. A theoretical study. Polyhedron, 2002, 21, 579-585.	1.0	9
48	Synthesis, Experimental and Density Functional Theory (DFT) Studies on Solubility of Camptothecin Derivatives. Molecules, 2018, 23, 3170.	1.7	9
49	Theoretical study of triple bonds to germanium: relative stabilities of germanitriles and germaimines. Chemical Communications, 2001, , 1120-1121.	2.2	8
50	Structures, vibrational spectra, and relative energies of HXSiS (X = H, F, and Cl) isomers. International Journal of Quantum Chemistry, 2001, 82, 14-25.	1.0	8
51	Nanostructured silver dendrites for photon-induced Cysteine dimerization. Scientific Reports, 2019, 9, 20174.	1.6	8
52	A Theoretical Study of Substituent Effects on Germaniumâ^'Phosphorus Triple Bonds. Journal of Physical Chemistry A, 2002, 106, 575-579.	1.1	7
53	The theoretical comparison between two model NO carriers, MeSNO and MeSeNO. Journal of Molecular Modeling, 2008, 14, 1-9.	0.8	7
54	Unexpected synthesis of novel 2-pyrone derivatives: crystal structures, Hirshfeld surface analysis and computational studies. Journal of Biomolecular Structure and Dynamics, 2021, 39, 4859-4877.	2.0	7

#	Article	IF	Citations
55	Synthesis, Crystal Structure and Computational Investigation of New 4â€Phenylâ€decahydroâ€1Hâ€1,5â€benzodiazepinâ€2â€one as Potent Inhibitor of Muâ€opioid Receptor. ChemistrySelect, 2020, 5, 4601-4607.	0.7	7
56	Theoretical Study of the Relative Stabilities of Arsasilenes and Arsasilynes. Organometallics, 2002, 21, 397-400.	1.1	6
57	A systematic study of the stabilities of cyclic boryl anions. Journal of Molecular Modeling, 2010, 16, 713-723.	0.8	6
58	A convenient synthesis of chiral 2-methylenebenzo[e][1,4]diazepin-5-ones via a one-pot reductive cyclodehydration with retention of chirality. Tetrahedron Letters, 2016, 57, 4842-4844.	0.7	6
59	A Computational Study on the Kinetic Stability of Cyclic Boryl Anions~!2007-12-13~!2008-05-13~!2008-06-11~!. The Open Chemical Physics Journal, 2008, 1, 51-61.	0.7	6
60	Synthesis, crystal structure, and a molecular modeling approach to identify effective antiviral hydrazide derivative against the main protease of SARS-CoV-2. Journal of Molecular Structure, 2022, 1265, 133391.	1.8	6
61	Insights into the crystal structure of two newly synthesized quinoxalines derivatives as potent inhibitor for c-Jun N-terminal kinases. Journal of Biomolecular Structure and Dynamics, 2022, 40, 2797-2814.	2.0	5
62	Synergy of Ionic and Dipolar Effects by Molecular Design for pH Sensing beyond the Nernstian Limit. Advanced Science, 2020, 7, 1901001.	5.6	4
63	Novel 3-chloro-6-nitro-1H-indazole derivatives as promising antileishmanial candidates: synthesis, biological activity, and molecular modelling studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 151-167.	2.5	4
64	A theoretical study of thermodynamics and kinetics of nitrosamines: a potential no carrier. Theoretical Chemistry Accounts, 2008, 119, 453-462.	0.5	3
65	Computational comparison of the kinetic stabilities of diamino- and diamidocarbenes in the 1,2-H shift reaction. Journal of Molecular Modeling, 2013, 19, 2935-2944.	0.8	3
66	HSbXH (XÂ=ÂN, P, As, Sb, and Bi) isomers in the singlet and triplet states. A theoretical study. Journal of Organometallic Chemistry, 2014, 751, 379-389.	0.8	3
67	Computational study of unsaturated and saturated cyclic (alkyl) (amino) carbene borane complexes. Computational and Theoretical Chemistry, 2015, 1051, 17-23.	1.1	3
68	Synthesis, X-ray, spectroscopic characterization, Hirshfeld surface analysis, DFT calculation and molecular docking investigations of a novel 7-phenyl-2,3,4,5-tetrahydro-1H-1,4- diazepin-5-one derivative. Journal of Molecular Structure, 2021, 1234, 130146.	1.8	3
69	Synthesis, crystal structure, DFT calculations and Hirshfeld surface analysis of 2-(1-decyl-2-oxoindolin-3-ylidene)propanedinitrile. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 21-25.	0.2	3
70	A new synthetic route for the preparation of 2,2â€²,5â€²â€trimethylâ€7â€oxoâ€4,7â€dihydroâ€[6,7â€²â€bipyrazolo[1,5â€a]pyrimidine]â€3,3â€²â€dicarbonitrile, structural elucidation, Hirshfeld surface analysis, energy framework, density functional theory and molecular docking investigations. Journal of the Chinese Chemical Society, 2022, 69, 717-730.	0.8	3
71	Synthesis, crystal structure investigation and computational approach to discover potential hydrazide derivatives as a potent inhibitor of cyclooxygenaseâ€2 enzyme. Journal of Biochemical and Molecular Toxicology, 2022, , e23082.	1.4	3
72	Pyreno[2,1-b]pyrrole and Bis(pyreno[2,1-b]pyrrole) as Selective Chemosensors of Fluoride Ion:â€‰ A Mechanistic Study.. Journal of Organic Chemistry, 2007, 72, 5465-5465.	1.7	2

#	Article	IF	Citations
73	Computational Study of Xe(OH)4, XeO(OH)3â€“, and XeO2(OH)22â€–. Journal of Physical Chemistry A, 2012, 116, 10397-10402.	1.1	2
74	A comparison of diamino- and diamidocarbenes toward dimerization. Journal of Molecular Modeling, 2013, 19, 4387-4394.	0.8	2
75	A theoretical study on the hydrogen adducts of diamidocarbenes and diaminocarbenes. Journal of Molecular Modeling, 2013, 19, 5523-5532.	0.8	2
76	Protecting-Group-Free Synthesis of 1-Phenylisoquinolin-4-ols: Thermal Cyclization of Methyl 2-[(Diphenylmethylidene)amino]acetates. Journal of Organic Chemistry, 2017, 82, 12849-12856.	1.7	2
77	Crystal structure, DFT calculations and Hirshfeld surface analysis of 3-(4-methylphenyl)-6-nitro-1H-indazole. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 1857-1861.	0.2	2
78	Crystal structure, DFT study and Hirshfeld surface analysis of 1-nonyl-2,3-dihydro-1H-indole-2,3-dione. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1140-1144.	0.2	2
79	A Comparison of the Lewis Basicity of Diamidocarbenes and Diaminocarbenes. Australian Journal of Chemistry, 2015, 68, 1084.	0.5	1
80	Synthesis, Crystal Structure, DFT Calculations and Hirshfeld Surface Analysis of 5-Bromo-1-decyl-2,3-dihydro-1H- indolin-2-one. Journal of Chemical Crystallography, 2020, 50, 330-337.	0.5	1
81	RBBP6 interactome: RBBP6 isoform 3/DWNN and Nek6 interaction is critical for cell cycle regulation and may play a role in carcinogenesis. Informatics in Medicine Unlocked, 2021, 23, 100522.	1.9	1
82	Crystal structure, computational study and Hirshfeld surface analysis of ethyl (2S,3R)-3-(3-amino-1H-1,2,4-triazol-1-yl)-2-hydroxy-3-phenylpropanoate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1919-1924.	0.2	1
83	Regiodivergent Synthesis of Methylene and Methyl Ring-Fused Isoquinolinones: Base-Promoted Isomerization of N-Allyl Amides. Journal of Organic Chemistry, 2022, 87, 5925-5937.	1.7	1
84	Electronic relaxation effect on sequential Î±-cleavage bond dissociation energy for carbonyl compounds and the heavy analogues. Chemical Physics Letters, 2002, 359, 355-359.	1.2	0
85	Femtosecond Spectroscopy and Dynamics of the Azulenylosquaric Dye, a Nearâ€infrared Nonfluorogenic Quencher. Journal of the Chinese Chemical Society, 2006, 53, 1275-1283.	0.8	0