Xiuwen Zhou

List of Publications by Year
in descending order

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29 papers	800 citations	623188 14 h-index	500791 28 g-index
29 all docs	29 docs citations	29 times ranked	1080 citing authors

#	Article	IF	Citations
1	Frozen-Density Embedding Strategy for Multilevel Simulations of Electronic Structure. Chemical Reviews, 2015, 115, 5891-5928.	23.0	258
2	Bond Fission and Non-Radiative Decay in Iridium(III) Complexes. Inorganic Chemistry, 2016, 55, 5266-5273.	1.9	49
3	Spectral Tuning of Rhodopsin and Visual Cone Pigments. Journal of the American Chemical Society, 2014, 136, 2723-2726.	6.6	43
4	How to choose the frozen density in Frozen-Density Embedding Theory-based numerical simulations of local excitations?. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	39
5	First-principles simulation of the absorption bands of fluorenone in zeolite L. Physical Chemistry Chemical Physics, 2013, 15, 159-167.	1.3	38
6	Rational Tuning of Bis-Tridentate Ir(III) Phosphors to Deep-Blue with High Efficiency and Sub-microsecond Lifetime. ACS Applied Materials & Interfaces, 2021, 13, 15437-15447.	4.0	34
7	Realization of Highly Efficient Red Phosphorescence from Bis-Tridentate Iridium(III) Phosphors. Inorganic Chemistry, 2019, 58, 10944-10954.	1.9	33
8	Nonradiative Decay and Stability of N-Heterocyclic Carbene Iridium(III) Complexes. Inorganic Chemistry, 2018, 57, 8881-8889.	1.9	31
9	Multi-scale modelling of solvatochromic shifts from frozen-density embedding theory with non-uniform continuum model of the solvent: the coumarin 153 case. Physical Chemistry Chemical Physics, 2011, 13, 10565.	1.3	30
10	Blue Phosphorescence and Hyperluminescence Generated from Imidazo[4,5â€b]pyridinâ€2â€ylideneâ€Based Iridium(III) Phosphors. Advanced Science, 2022, 9, .	5.6	28
11	Bisâ€tridentate Ir^{III} Phosphors Bearing Two Fused Fiveâ€Sixâ€Membered Metallacycles: A Strategy to Improved Photostability of Blue Emitters. Chemistry - A European Journal, 2019, 25, 15375-15386.	1.7	27
12	Iridium(III) Phosphorsâ€“Bearing Functional 9â€Phenylâ€7,9â€dihydroâ€8Hâ€purinâ€8â€ylidene Chelates and Blue Hyperphosphorescent OLED Devices. Advanced Photonics Research, 2022, 3, .	1.7	23
13	Homoleptic Ir(III) Phosphors with 2-Phenyl-1,2,4-triazol-3-ylidene Chelates for Efficient Blue Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 59023-59034.	4.0	23
14	Electronic structure and optical properties of CdWO4 with oxygen vacancy studied from first principles. Solid State Communications, 2010, 150, 5-8.	0.9	19
15	Efficient Blue Electrophosphorescence and Hyperphosphorescence Generated by Bis-tridentate Iridium(III) Complexes. Inorganic Chemistry, 2022, 61, 8898-8908.	1.9	18
16	Tuning the optical properties of N-aryl benzothiadiazole via Cu(<scp>ii</scp>)-catalyzed intramolecular Câ€“H amination: the impact of the molecular structure on aggregation and solid state luminescence. Organic Chemistry Frontiers, 2020, 7, 3853-3861.	2.3	15
17	Nearâ€Infrared OLEDs Based on Functional Pyrazinyl Azolate Os(II) Phosphors and Deuteration. Advanced Optical Materials, 2022, 10, .	3.6	15
18	Methoxy-substituted bis-tridentate iridium(<scp>iii</scp>) phosphors and fabrication of blue organic light emitting diodes. Journal of Materials Chemistry C, 2020, 8, 13590-13602.	2.7	14

#	Article	IF	Citations
19	Aggregates of diketopyrrolopyrrole dimers in solution. Dyes and Pigments, 2017, 136, 678-685.	2.0	13
20	First-principles study of cadmium vacancy in CdWO4 crystal. Solid State Sciences, 2009, 11, 2071-2074.	1.5	10
21	First principle studies on the electronic structures and absorption spectra in KMgF3 crystal with fluorine vacancy. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2403-2407.	0.6	9
22	Quantitative calculations of the non-radiative rate of phosphorescent Ir(<scp>iii</scp>) complexes. Physical Chemistry Chemical Physics, 2020, 22, 27348-27356.	1.3	9
23	Effect of n-propyl substituents on the emission properties of blue phosphorescent iridium(iii) complexes. Journal of Chemical Physics, 2017, 146, 174305.	1.2	5
24	Multi-Redox Responsive Behavior in a Mixed-Valence Semiconducting Framework Based on Bis-[1,2,5]-thiadiazolo-tetracyanoquinodimethane. Journal of the American Chemical Society, 0, , .	6.6	5
25	First-principles study of LiBaF3 crystals containing interstitial fluoride. Current Applied Physics, 2010, 10, 1286-1289.	1.1	3
26	Non-uniform Continuum Model for Solvated Species Based on Frozen-Density Embedding Theory: The Study Case of Solvatochromism of Coumarin 153. Chimia, 2014, 68, 609.	0.3	3
27	Study of the electronic structures of oxygen doped in LiBaF3 crystal. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2467-2470.	0.6	2
28	First-principles study on the F-type color centers in LiBaF3 crystals. Physica B: Condensed Matter, 2010, 405, 932-935.	1.3	2
29	Study on the electronic structures and the optical properties of the Mg-doped LiBaF3 crystal. Physica B: Condensed Matter, 2010, 405, 1759-1762.	1.3	2