

Lei Zhou

List of Publications by Year in descending order

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61857

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64668

79
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all docs

90
docs citations

90
times ranked

5782
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn ²⁺ and Mn ⁴⁺ red phosphors: synthesis, luminescence and applications in WLEDs. A review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2652-2671.	2.7	511
2	Synthesis and Photocatalytic Application of Stable Lead-Free Cs ₂ AgBiBr ₆ Perovskite Nanocrystals. <i>Small</i> , 2018, 14, e1703762.	5.2	443
3	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5277-5281.	7.2	310
4	In Situ Construction of a Cs ₂ Sn ₆ Perovskite Nanocrystal/SnS ₂ Nanosheet Heterojunction with Boosted Interfacial Charge Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 13434-13441.	6.6	303
5	Intrinsic Self-Trapped Emission in OD Lead-Free (C ₄ H ₁₄ N ₂) ₂ In ₂ Br ₁₀ Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15435-15440.	7.2	244
6	Pd-Catalyzed Three-Component Coupling of <i>N</i> -Tosylhydrazone, Terminal Alkyne, and Aryl Halide. <i>Journal of the American Chemical Society</i> , 2010, 132, 13590-13591.	6.6	200
7	Intrinsic Self-Trapped Emission in OD Lead-Free (C ₄ H ₁₄ N ₂) ₂ In ₂ Br ₁₀ Single Crystal. <i>Angewandte Chemie</i> , 2019, 131, 15581-15586.	1.6	190
8	Synthesis of Functionalized <i>gem</i> -Difluoroalkenes via a Photocatalytic Decarboxylative/Defluorinative Reaction. <i>Journal of Organic Chemistry</i> , 2016, 81, 7908-7916.	1.7	182
9	Synthesis of 6-substituted phenanthridines by metal-free, visible-light induced aerobic oxidative cyclization of 2-isocyanobiphenyls with hydrazines. <i>Green Chemistry</i> , 2014, 16, 2418-2421.	4.6	167
10	Palladium-Catalyzed Oxidative Cross-Coupling of <i>N</i> -Tosylhydrazones or Diazoesters with Terminal Alkynes: A Route to Conjugated Enynes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3510-3514.	7.2	157
11	CuBr-Catalyzed Coupling of <i>N</i> -Tosylhydrazones and Terminal Alkynes: Synthesis of Benzofurans and Indoles. <i>Organic Letters</i> , 2011, 13, 968-971.	2.4	153
12	Visible-light promoted ¹³ C-cyanoalkyl radical generation: three-component cyanopropylation/etherification of unactivated alkenes. <i>Chemical Communications</i> , 2017, 53, 11544-11547.	2.2	148
13	All-Inorganic Lead-Free Cs ₂ PdX ₆ (X = Br, I) Perovskite Nanocrystals with Single Unit Cell Thickness and High Stability. <i>ACS Energy Letters</i> , 2018, 3, 2613-2619.	8.8	143
14	Phenanthrene Synthesis by Eosin Y-Catalyzed, Visible Light-Induced [4+2] Benzannulation of Biaryldiazonium Salts with Alkynes. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3195-3199.	2.1	132
15	Blue light-promoted cross-coupling of aryldiazoacetates and diazocarbonyl compounds. <i>Chemical Communications</i> , 2018, 54, 8865-8868.	2.2	129
16	Misconceptions in electronic energy transfer: bridging the gap between chemistry and physics. <i>Chemical Society Reviews</i> , 2018, 47, 5234-5265.	18.7	126
17	Highly efficient synthesis of cyclic carbonates from epoxides catalyzed by salen aluminum complexes with built-in CO ₂ capture capability under mild conditions. <i>Green Chemistry</i> , 2014, 16, 1496-1506.	4.6	125
18	Visible-Light-Promoted Redox Neutral ¹³ C-Difluoroallylation of Cycloketone Oxime Ethers with Trifluoromethyl Alkenes via C-C and C-F Bond Cleavage. <i>Organic Letters</i> , 2019, 21, 3769-3773.	2.4	115

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19	Efficient Sensitization of Eu ³⁺ Emission by Tb ³⁺ in Ba ₃ La(PO ₄) ₃ under VUV-UV Excitation: Energy Transfer and Tunable Emission. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15932-15937.	1.5	104
20	Metal-Free Visible-Light Induced Cross-Dehydrogenative Coupling of Tertiary Amines with Diazo Compounds. <i>Organic Letters</i> , 2014, 16, 4232-4235.	2.4	104
21	Site Occupancies, Luminescence, and Thermometric Properties of LiY ₉ (SiO ₄) ₆ O ₂ :Ce ³⁺ Phosphors. <i>Inorganic Chemistry</i> , 2016, 55, 10415-10424.	1.9	100
22	Energy Transfer and Tunable Luminescence of NaLa(PO ₃) ₄ :Tb ³⁺ /Eu ³⁺ under VUV and Low-Voltage Electron Beam Excitation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3220-3229.	1.5	96
23	Palladium-Catalyzed C-H Functionalization of Acyldiazomethane and Tandem Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4435-4444.	6.6	94
24	Synthesis of 3-Acylindoles by Visible-Light Induced Intramolecular Oxidative Cyclization of <i>o</i> -Alkynylated <i>N,N</i> -Dialkylamines. <i>Organic Letters</i> , 2014, 16, 3264-3267.	2.4	92
25	Visible-Light-Mediated Two-Fold Unsymmetrical C(sp ³)-H Functionalization and Double C-F Substitution. <i>Chemistry - A European Journal</i> , 2017, 23, 2249-2254.	1.7	85
26	Single phase white LED phosphor Ca ₃ YAl ₃ B ₄ O ₁₅ :Ce ³⁺ , Tb ³⁺ , Sm ³⁺ with superior performance: Color-tunable and energy transfer study. <i>Chemical Engineering Journal</i> , 2021, 410, 128455.	6.6	80
27	Iminyl-Radical-Triggered C-C Bond Cleavage of Cycloketone Oxime Derivatives: Generation of Distal Cyano-Substituted Alkyl Radicals and Their Functionalization. <i>Synthesis</i> , 2020, 52, 1585-1601.	1.2	77
28	Synthesis of <i>N</i> -Containing Heterocyclic Compounds Using Visible-light Photoredox Catalysis. <i>Chemical Record</i> , 2016, 16, 319-334.	2.9	68
29	Visible-Light-Mediated I ² -C-H <i>gem</i> -Difluoroallylation of Aldehydes and Cyclic Ketones through C-F Bond Cleavage of 1-Trifluoromethyl Alkenes. <i>Organic Letters</i> , 2020, 22, 2371-2375.	2.4	68
30	Synthesis of Quinolines by Visible-Light Induced Radical Reaction of Vinyl Azides and I-Carbonyl Benzyl Bromides. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 2479-2484.	2.1	67
31	Concentration-Driven Selectivity of Energy Transfer Channels and Color Tunability in Ba ₃ La(PO ₄) ₃ :Tb ³⁺ , Sm ³⁺ for Warm White LEDs. <i>Inorganic Chemistry</i> , 2017, 56, 7433-7442.	1.9	65
32	Luminescence enhancement and energy transfers of Ce ³⁺ and Sm ³⁺ in CaSrSiO ₄ phosphor. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7612-7618.	2.7	65
33	Excitation Wavelength Dependent Luminescence of LuNbO ₄ :Pr ³⁺ —Influences of Intervalence Charge Transfer and Host Sensitization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26044-26053.	1.5	60
34	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie</i> , 2019, 131, 5331-5335.	1.6	57
35	Visible-Light-Induced Radical Cyclization of Trifluoroacetimidoyl Chlorides with Alkynes: Catalytic Synthesis of 2-Trifluoromethyl Quinolines. <i>Chemistry - A European Journal</i> , 2013, 19, 16928-16933.	1.7	54
36	Spectral Properties and Energy Transfer of a Potential Solar Energy Converter. <i>Chemistry of Materials</i> , 2016, 28, 2834-2843.	3.2	50

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37	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 975-980.	15.6	50
38	Cyclopropylmethyl Palladium Species from Carbene Migratory Insertion: New Routes to 1,3-Butadienes. <i>Organic Letters</i> , 2012, 14, 922-925.	2.4	49
39	A photocatalytic sp ³ C–S, C–Se and C–B bond formation through C–C bond cleavage of cycloketone oxime esters. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 533-540.	1.5	49
40	Copper-catalyzed synthesis of benzazoles via aerobic oxidative condensation of o-amino/mercaptan/hydroxyanilines with benzylamines. <i>RSC Advances</i> , 2013, 3, 15592.	1.7	48
41	Synthesis of Fluorinated Benzo[a]quinolizidines via Visible Light-Induced Tandem Substitution of Two Fluorine Atoms in a CF ₃ Group. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3642-3647.	2.1	48
42	Luminescence, cathodoluminescence and Ce ³⁺ /Eu ²⁺ energy transfer and emission enhancement in the Sr ₅ (PO ₄) ₃ Cl:Ce ³⁺ ,Eu ²⁺ phosphor. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7155.	2.7	46
43	Single-Crystal Red Phosphors and Their Core-Shell Structure for Improved Water-Resistance for Laser Diodes Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3940-3945.	7.2	46
44	Ag(I)-Catalyzed Three-Component Reaction of 2-Alkynylbenzaldehydes, Amines, and Diazo Compounds. <i>Organic Letters</i> , 2015, 17, 4332-4335.	2.4	44
45	A photocatalytic decarboxylative/defluorinative [4 + 3] annulation of o-hydroxyphenylacetic acids and trifluoromethyl alkenes: synthesis of fluorinated dihydrobenzoxepines. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3240-3244.	2.3	44
46	Photoredox Defluorinative Alkylation of 1-Trifluoromethyl Alkenes and 1,3-Butadienes with 1,4-Dihydropyridines as Alkylation Reagents. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 661-664.	1.3	44
47	Synthesis of Gem-Difluorinated Fused Quinolines via Visible Light-Mediated Cascade Radical Cyclization. <i>Organic Letters</i> , 2016, 18, 1004-1007.	2.4	38
48	Recent Advances in C-F Bond Cleavage Enabled by Visible Light Photoredox Catalysis. <i>Molecules</i> , 2021, 26, 7051.	1.7	34
49	Photoluminescence and Fluorescence Quenching of Graphene Oxide: A Review. <i>Nanomaterials</i> , 2022, 12, 2444.	1.9	34
50	Regiospecific Synthesis of Benzoxepines through Pd-Catalyzed Carbene Migratory Insertion and C–C Bond Cleavage. <i>Journal of Organic Chemistry</i> , 2016, 81, 2128-2134.	1.7	33
51	Sequential Au(I)-catalyzed reaction of water with o-acylenyl-substituted phenyldiazoacetates. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 631-637.	1.3	32
52	Recent Advances in Developing Lanthanide Metal-Organic Frameworks for Ratiometric Fluorescent Sensing. <i>Frontiers in Chemistry</i> , 2020, 8, 624592.	1.8	32
53	Combined Experimental and ab Initio Study of Site Preference of Ce ³⁺ in SrAl ₂ O ₄ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 19326-19332.	1.5	31
54	Synthesis of 2-trifluoromethyl indoles via visible-light induced intramolecular radical cyclization. <i>RSC Advances</i> , 2015, 5, 39625-39629.	1.7	29

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55	Ca ₃ Lu(AlO) ₃ (BO ₃) ₄ :Sm ³⁺ : a novel red-emitting phosphor with high colour purity for NUV-based warm white LEDs. RSC Advances, 2018, 8, 40693-40700.	1.7	29
56	Unique Spectral Overlap and Resonant Energy Transfer between Europium(II) and Ytterbium(III) Cations: No Quantum Cutting. Angewandte Chemie - International Edition, 2017, 56, 10357-10361.	7.2	26
57	Bright Green Emitting CaYAlO ₄ :Tb ³⁺ ,Ce ³⁺ Phosphor: Energy Transfer and 3D Printing Artwork. Advanced Optical Materials, 2020, 8, 2000523.	3.6	26
58	Efficient Luminescence Enhancement of Mg ₂ TiO ₄ :Mn ⁴⁺ Red Phosphor by Incorporating Plasmonic Ag@SiO ₂ Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 21004-21009.	4.0	25
59	Divergent Conversion of <i>N</i> -Acyl-isoxazol-5(2 <i>H</i>)-ones to Oxazoles and 1,3-Oxazin-6-ones Using Photoredox Catalysis. Organic Letters, 2019, 21, 3548-3553.	2.4	25
60	Pd-catalyzed coupling of β -hydroxy α -diazocarbonyl compounds with aryl iodides: a migratory insertion/ β -hydroxy elimination sequence. Chemical Communications, 2011, 47, 3622.	2.2	24
61	Visible-light-driven radical 1,3-addition of selenosulfonates to vinyl diazo compounds. Green Chemistry, 2021, 23, 6652-6658.	4.6	24
62	Energy Transfer between Tb ³⁺ and Eu ³⁺ in LaPO ₄ : Pulsed versus Switched-off Continuous Wave Excitation. Advanced Science, 2019, 6, 1900487.	5.6	20
63	Synthesis of 5-Fluoro-dihydroindolizines from Pyrrole-2-acetic Acids and Trifluoromethyl Alkenes via Dual C-F Bond Cleavage in a CF ₃ Group. Journal of Organic Chemistry, 2022, 87, 4801-4812.	1.7	19
64	Synthesis of aziridines by visible-light induced decarboxylative cyclization of N-aryl glycines and diazo compounds. Science China Chemistry, 2016, 59, 199-202.	4.2	18
65	Silver-catalyzed geminal aminofluorination of diazoketones with anilines and N-fluorobenzenesulphonimide. Organic Chemistry Frontiers, 2017, 4, 529-533.	2.3	17
66	Redox-Neutral C1 Functionalization of Unprotected Tetrahydroisoquinolines with Diazo Carbonyl Compounds. Asian Journal of Organic Chemistry, 2016, 5, 1204-1207.	1.3	16
67	Spectral Properties and Energy Transfer between Ce ³⁺ and Yb ³⁺ in the Ca ₃ Sc ₂ Si ₃ O ₁₂ Host: Is It an Electron Transfer Mechanism?. Journal of Physical Chemistry A, 2016, 120, 5539-5548.	1.1	16
68	Molecular characterization, tissue distribution, and expression regulation from fasting and re-feeding of two growth hormone receptors in mandarin fish Siniperca chuatsi. Fisheries Science, 2016, 82, 155-169.	0.7	15
69	Structural modulation induced intensity enhancement of full color spectra: a case of Ba ₃ ZnTa ₂ xNb _x O ₉ :Eu ³⁺ phosphors. Journal of Materials Chemistry C, 2020, 8, 6715-6723.	2.7	15
70	Vinyldiazo Compounds as 3-Carbon Radical Acceptors: Synthesis of 4-Fluoroacridines via Visible-Light-Promoted Cascade Radical Cyclization. Organic Letters, 2021, 23, 4279-4283.	2.4	15
71	Emission-Color-Tunable Pb-Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. Advanced Optical Materials, 2022, 10, .	3.6	15
72	Single-Crystal Red Phosphors and Their Core-Shell Structure for Improved Water-Resistance for Laser Diodes Applications. Angewandte Chemie, 2021, 133, 3986-3991.	1.6	14

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73	Synthesis of Tetrasubstituted Allenes via Visible-Light-Promoted Radical 1,3-Difunctionalization of Alkynyl Diazo Compounds. <i>Organic Letters</i> , 2022, 24, 3976-3981.	2.4	14
74	External Photocatalyst-Free Visible Light-Promoted 1,3-Addition of Perfluoroalkyl Iodides to Vinyl diazoacetates. <i>CCS Chemistry</i> , 2022, 4, 638-649.	4.6	12
75	Synthesis of 3-Aryl-2-pyrones by Palladium-Catalyzed Cross-Coupling of Aryl Iodides with Cyclic Vinyl diazo Ester. <i>Journal of Organic Chemistry</i> , 2017, 82, 9204-9209.	1.7	11
76	Broad-band emission of $A_{3d}B_{2d}O_9$ complex perovskites (A = Ba, Sr; B = Ti, Zr, Hf). <i>Chemistry C</i> , 2018, 6, 12566-12574.	2.7	11
77	Identification and expression analysis of two HSP70 isoforms in mandarin fish <i>Siniperca chuatsi</i> . <i>Fisheries Science</i> , 2014, 80, 803-817.	0.7	10
78	Relay Photocatalytic Reaction of <i>N</i> -Aryl Amino Acids and 2-Bromo-3,3,3-trifluoropropene: Synthesis of 4-(Difluoromethylidene)-tetrahydroquinolines. <i>Organic Letters</i> , 2022, 24, 3265-3269.	2.4	10
79	Unique Spectral Overlap and Resonant Energy Transfer between Europium(II) and Ytterbium(III) Cations: No Quantum Cutting. <i>Angewandte Chemie</i> , 2017, 129, 10493-10497.	1.6	9
80	Visible Light-Mediated C-F Bond Activation. , 2019, , 159-181.		8
81	Luminescence and energy transfer of Ce ³⁺ and Pr ³⁺ in LaBSiO ₅ . <i>Journal of Luminescence</i> , 2016, 177, 178-183.	1.5	7
82	Au/SiO ₂ nanoparticles in TiO ₂ :Sm ³⁺ films for improved fluorescence sensing of oxygen. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11958-11964.	2.7	7
83	Dual-mode chromatic electrophoretic display: A prospective technology based on fluorescent electrophoretic particles. <i>Chemical Engineering Journal</i> , 2022, 439, 135726.	6.6	6
84	Magneto-optics of the luminescent transitions in Tb ³⁺ :Gd ₃ Ga ₅ O ₁₂ . <i>Optical Materials</i> , 2015, 46, 282-291.	1.7	4
85	Low-voltage cathodoluminescence and Eu/Tb L ₃ -edge XANES of Na _{1+y} Ca _{1-x} Y _{2y} Eu _x Tb _y PO ₄ . <i>Optical Materials</i> , 2014, 36, 839-844.	1.7	3
86	Visible-light-promoted defluorinative ring-opening <i>gem</i> -difluoroallylation of cycloalkanols using 1-trifluoromethyl alkenes. <i>New Journal of Chemistry</i> , 2022, 46, 8545-8550.	1.4	3
87	Energy Transfer: Energy Transfer between Tb ³⁺ and Eu ³⁺ in LaPO ₄ : Pulsed versus Switched-Off Continuous Wave Excitation (<i>Adv. Sci.</i> 10/2019). <i>Advanced Science</i> , 2019, 6, 1970060.	5.6	2
88	Frontispiece: Visible-Light-Mediated Two-Fold Unsymmetrical C(sp ³) ³ -H Functionalization and Double C-F Substitution. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
89	Acid-Catalyzed Oxidative Cross-Coupling of Acridans with Silyl Diazoenolates and Rh-Catalyzed Rearrangement: Two-step Synthesis of ¹³ C-(9-Acridanylidene)- ¹² -keto Esters. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5649-5657.	1.5	0