Cheng Zhou

List of Publications by Year
in descending order

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62 papers	3,043 citations	186265 28 h-index	161849 54 g-index
62 all docs	62 docs citations	62 times ranked	2603 citing authors

#	Article	IF	Citations
1	Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. Bioresource Technology, 2017, 232, 204-210.	9.6	273
2	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. Journal of Environmental Management, 2019, 237, 128-138.	7.8	266
3	Research progress and application prospects of transition metal Mn⁴⁺-activated luminescent materials. Journal of Materials Chemistry C, 2016, 4, 9143-9161.	5.5	228
4	Tunable dual emission of Ca₃Al₄ZnO₁₀:Bi³⁺,Mn⁴⁺via energy transfer for indoor plant growth lighting. Journal of Materials Chemistry C, 2018, 6, 8914-8922.	5.5	134
5	Red shift properties, crystal field theory and nephelauxetic effect on Mn4+-doped SrMgAl10-yGayO17 red phosphor for plant growth LED light. Chemical Engineering Journal, 2020, 396, 125208.	12.7	124
6	Effect of pyrolysis condition on the adsorption mechanism of lead, cadmium and copper on tobacco stem biochar. Journal of Cleaner Production, 2018, 187, 996-1005.	9.3	118
7	Effect of phosphoric acid on the surface properties and Pb(II) adsorption mechanisms of hydrochars prepared from fresh bananaÂpeels. Journal of Cleaner Production, 2017, 165, 221-230.	9.3	114
8	Dy³⁺@Mn⁴⁺co-doped Ca₁₄Ga_{10â"m}Al_mZn₆O₃₅far-red emitting phosphors with high brightness and improved luminescence and energy transfer properties for plant growth LED lights. Journal of Materials Chemistry C, 2017, 5, 8201-8210.	5.5	112
9	Enhancing quantum efficiency and tuning photoluminescence properties in far-red-emitting phosphor Ca14Ga10Zn6O35:Mn4+ based on chemical unit engineering. Chemical Engineering Journal, 2019, 374, 381-391.	12.7	112
10	Photoluminescence properties and energy transfer in a novel Sr₈ZnY(PO₄)₇:Tb³⁺,Eu³⁺ phosphor with high thermal stability and its great potential for application in warm white light emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2927-2935.	5.5	104
11	Chemical Transformation of Lead Halide Perovskite into Insoluble, Less Cytotoxic, and Brightly Luminescent CsPbBr₃/CsPb₂Br₅ Composite Nanocrystals for Cell Imaging. ACS Applied Materials & Interfaces, 2019, 11, 24241-24246.	8.0	81
12	High-performance and moisture-resistant red-emitting Cs₂SiF₆:Mn⁴⁺ for high-brightness LED backlighting. Journal of Materials Chemistry C, 2019, 7, 2401-2407.	5.5	74
13	Improved luminescence and energy-transfer properties of Ca₁₄Al₁₀Zn₆O₃₅:Ti⁴⁺,Mn⁴⁺ deep-red-emitting phosphors with high brightness for light-emitting diode (LED) plant-growth lighting. Dalton Transactions, 2018, 47, 13713-13721.	3.3	61
14	Structure analysis, tuning photoluminescence and enhancing thermal stability on Mn4+-doped La2-xYxMgTiO6 red phosphor for agricultural lighting. Ceramics International, 2020, 46, 20173-20182.	4.8	61
15	Metal-containing organic compounds for memory and data storage applications. Chemical Society Reviews, 2022, 51, 1926-1982.	38.1	59
16	A novel Na₃La(PO₄)₂/LaPO₄:Eu blue-red dual-emitting phosphor with high thermal stability for plant growth lighting. Journal of Materials Chemistry C, 2019, 7, 2385-2393.	5.5	53
17	Enhanced luminescence and energy transfer performance of double perovskite structure Gd2MgTiO6:Bi3+, Mn4+ phosphor for indoor plant growth LED lighting. Ceramics International, 2021, 47, 16588-16596.	4.8	51
18	Improving the electrochemical properties of a SiO@C/graphite composite anode for high-energy lithium-ion batteries by adding lithium fluoride. Applied Surface Science, 2019, 480, 410-418.	6.1	48

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19	One-step microwave-assisted preparation of oxygen-rich multifunctional carbon quantum dots and their application for Cu2+-curcumin detection. Talanta, 2019, 205, 120117.	5.5	47
20	Origin and Luminescence of Anomalous Red-Emitting Center in Rhombohedral Ba₉Lu₂Si₆O₂₄:Eu²⁺ Blue Phosphor. Inorganic Chemistry, 2016, 55, 8628-8635.	4.0	40
21	Enhanced photoluminescence and energy transfer performance of Y₃Al₄GaO₁₂:Mn⁴⁺,Dy³⁺ phosphors for plant growth LED lights. RSC Advances, 2019, 9, 9244-9252.	3.6	36
22	Scalable synthesis SiO@C anode by fluidization thermal chemical vapor deposition in fluidized bed reactor for high-energy lithium-ion battery. Applied Surface Science, 2019, 467-468, 298-308.	6.1	35
23	The mechanism transformation of ramie biocharâ€™s cadmium adsorption by aging. Bioresource Technology, 2021, 330, 124947.	9.6	35
24	Interconnected structure Si@TiO2-B/CNTs composite anode applied for high-energy lithium-ion batteries. Applied Surface Science, 2020, 500, 144026.	6.1	33
25	Engineering cation vacancies to improve the luminescence properties of Ca₁₄Al₁₀Zn₆O₃₅: Mn⁴⁺ phosphors for LED plant lamp. Journal of the American Ceramic Society, 2020, 103, 1798-1808.	3.8	32
26	Anti-thermal-quenching, color-tunable and ultra-narrow-band cyan green-emitting phosphor for w-LEDs with enhanced color rendering. Chemical Engineering Journal, 2022, 433, 134079.	12.7	32
27	Synthesis and photoluminescence properties of novel red-emitting phosphor SrAl3BO7:Mn4+ with enhanced emission by Mg2+/Zn2+/Ca2+ incorporation for plant growth LED lighting. Ceramics International, 2019, 45, 23528-23539.	4.8	31
28	Novel orangeâ€“red emitting phosphor Sr8ZnY(PO4)7:Sm3+ with enhanced emission based on Mg2+ and Al3+ incorporation for plant growth LED lighting. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 360-368.	5.3	31
29	Improving the electrochemical properties of SiO@C anode for high-energy lithium ion battery by adding graphite through fluidization thermal chemical vapor deposition method. Ceramics International, 2019, 45, 1950-1959.	4.8	28
30	Performance improvement by alumina coatings on Y₃Al₅O₁₂:Ce³⁺ phosphor powder deposited using atomic layer deposition in a fluidized bed reactor. RSC Advances, 2016, 6, 76454-76462.	3.6	27
31	In situ modification provided by a novel wet pyrolysis system to enhance surface properties of biochar for lead immobilization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 39-47.	4.7	27
32	Pyrophosphate Phosphor Solid Solution with High Quantum Efficiency and Thermal Stability for Efficient LED Lighting. IScience, 2020, 23, 100892.	4.1	27
33	Catalytic co-pyrolysis of herb residue and polypropylene for pyrolysis products upgrading and diversification using nickel-X/biochar and ZSM-5 (XÂ=Âiron, cobalt, copper). Bioresource Technology, 2022, 349, 126845.	9.6	27
34	Enhanced cycling performance and rate capacity of SiO anode material by compositing with monoclinic TiO2 (B). Applied Surface Science, 2019, 486, 292-302.	6.1	26
35	pH dependent hydrothermal synthesis of Ca14Al10Zn6O35:0.15Mn4+ phosphor with enhanced photoluminescence performance and high thermal resistance for indoor plant growth lighting. Ceramics International, 2018, 44, 19779-19786.	4.8	25
36	A simple and generic post-treatment strategy for highly efficient Cr³⁺-activated broadband NIR emitting phosphors for high-power NIR light sources. Journal of Materials Chemistry C, 2022, 10, 8797-8805.	5.5	25

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37	Bi3+ occupancy rearrangement in K2-xAxMgGeO4 phosphor to achieve ultra-broad-band white emission based on alkali metal substitution engineering. Applied Surface Science, 2021, 563, 150252.	6.1	24
38	Plant habitat-conscious phosphors: Tuneable luminescence properties of Dy3+-doped Ca8ZnY(PO4)7 phosphors by co-dopants Mg2+ and B3+. Ceramics International, 2020, 46, 11717-11725.	4.8	23
39	A high thermal stability Cr³⁺-doped gallate far red phosphor for plant lighting: structure, luminescence enhancement and application prospect. Journal of Materials Chemistry C, 2022, 10, 5829-5839.	5.5	23
40	Enhancing the electrochemical properties of LiTi2(PO4)3/C anode for aqueous rechargeable lithium battery by Li vacancy. Solid State Ionics, 2018, 315, 1-6.	2.7	22
41	Enhance the luminescence properties of Ca14Al10Zn6O35:Ti4+ phosphor via cation vacancies engineering of Ca2+ and Zn2+. Ceramics International, 2019, 45, 9977-9985.	4.8	22
42	Enhancing the electrochemical performance of micron-scale SiO@C/CNTs anode via adding piezoelectric material BaTiO3 for high-power lithium ion battery. Journal of Alloys and Compounds, 2019, 800, 116-124.	5.5	21
43	Co-pyrolysis of different torrefied Chinese herb residues and low-density polyethylene: Kinetic and products distribution. Science of the Total Environment, 2022, 802, 149752.	8.0	21
44	Novel ultra-high-temperature zero-thermal quenching plant-protecting type blue-green dual-emission KAl₁₁O₁₇:Eu²⁺,Mn²⁺ phosphors for urban ecological lighting. Journal of Materials Chemistry C, 2022, 10, 3461-3471.	5.5	19
45	Effect of pyrolysis condition on the adsorption mechanism of heavy metals on tobacco stem biochar in competitive mode. Environmental Science and Pollution Research, 2019, 26, 26947-26962.	5.3	18
46	Enhanced luminescence properties of Li2MgTiO4: Mn4+, Ge4+ phosphor via single cation substitution for indoor plant cultivation. Ceramics International, 2022, 48, 3070-3080.	4.8	18
47	Tuning the luminescence properties of blue and farâ€red dual emitting Gd₂MgTiO₆: Bi³⁺, Cr³⁺ phosphor for LED plant lamp. Journal of the American Ceramic Society, 2021, 104, 6444-6454.	3.8	17
48	Pyrolysis gas from biomass and plastics over X-Mo@MgO (X = Ni, Fe, Co) catalysts into functional carbon nanocomposite: Gas reforming reaction and proper process mechanisms. Science of the Total Environment, 2022, 831, 154751.	8.0	17
49	Enhancing photoluminescence properties of Mn⁴⁺â€activated Sr_{4â”}_xBa_xAl₁₄O₂₅ red phosphors for plant cultivation LEDs. Journal of the American Ceramic Society, 2019, 102, 7386-7396.	3.8	16
50	In situ synthesis of high-efficiency CsPbBr₃/CsPb₂Br₅ composite nanocrystals in aqueous solution of microemulsion. Green Chemistry, 2020, 22, 5257-5261.	9.0	16
51	Tuning the luminescence properties of Mn⁴⁺â€activated CaYAlO₄ phosphor by coâ€doping cations for indoor plant cultivation. Journal of the American Ceramic Society, 2020, 103, 4373-4383.	3.8	16
52	An Efficient Hole Transporting Polymer for Quantum Dot Lightâ€Emitting Diodes. Advanced Materials Interfaces, 2021, 8, 2100731.	3.7	16
53	Manganese Ionâ€Sensitized Nearâ€Infrared Light in Cs₂NaBi_{1â”}_xEr_xCl₆ Leadâ€Free Double Perovskite. Advanced Optical Materials, 2022, 10, .	7.3	16
54	Multiple Strategies to Approach High-Efficiency Luminescence Controllable in Blue/Cyan/Green-Emitting Bi³⁺-Activated Phosphors. Journal of Physical Chemistry C, 2022, 126, 9195-9206.	3.1	16

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55	A novel green phosphor Sr8ZnY(PO4)7:Eu2+, Ln3+ (Ln = Pr, Tm, Yb) with broad emission band for high color rendering white-lighting-emitting diodes. Journal of Luminescence, 2019, 214, 116600.	3.1	15
56	High thermal stability and blue-violet emitting phosphor CaYAlO4:Ti4+ with enhanced emission by Ca2+ vacancies. Journal of Rare Earths, 2020, 38, 227-233.	4.8	11
57	Torrefied herb residues in nitrogen, air and oxygen atmosphere: Thermal decomposition behavior and pyrolytic products characters. Bioresource Technology, 2021, 342, 125991.	9.6	9
58	The preparation of N, S, P self-doped and oxygen functionalized porous carbon via aerophilic interface reaction for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 12961-12972.	2.2	8
59	Novel Far-red Phosphors (La,Gd,Y)₂MgTiO₆â^¶Cr³⁺ with Tunable Luminescence Spectra for Grow Light. Chinese Journal of Luminescence, 2022, 43, 58-68.	0.5	7
60	Effect of Calcium-Based Catalysts on Pyrolysis Liquid Products from Municipal Sludge. Bioenergy Research, 2020, 13, 887-895.	3.9	6
61	Study on the difference between in-situ and ex-situ catalytic pyrolysis of oily sludge. Environmental Science and Pollution Research, 2021, 28, 50500-50509.	5.3	5
62	Catalytic Activity and Reusability of Nickel-Based Catalysts with Different Biochar Supports during Copyrolysis of Biomass and Plastic. ACS Sustainable Chemistry and Engineering, 2022, 10, 9933-9945.	6.7	4