

Cheng Zhou

List of Publications by Year in descending order

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62
papers

3,043
citations

186265
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161849
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all docs

62
docs citations

62
times ranked

2603
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-pyrolysis of different torrefied Chinese herb residues and low-density polyethylene: Kinetic and products distribution. <i>Science of the Total Environment</i> , 2022, 802, 149752.	8.0	21
2	Enhanced luminescence properties of Li ₂ MgTiO ₄ : Mn ⁴⁺ , Ge ⁴⁺ phosphor via single cation substitution for indoor plant cultivation. <i>Ceramics International</i> , 2022, 48, 3070-3080.	4.8	18
3	Novel ultra-high-temperature zero-thermal quenching plant-protecting type blue-green dual-emission KAl ₁₁ O ₁₇ :Eu ²⁺ , Mn ²⁺ phosphors for urban ecological lighting. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3461-3471.	5.5	19
4	Metal-containing organic compounds for memory and data storage applications. <i>Chemical Society Reviews</i> , 2022, 51, 1926-1982.	38.1	59
5	Novel Far-red Phosphors (La,Gd,Y)₂₂<sub>MgTiO₆³⁺ with Tunable Luminescence Spectra for Grow Light. <i>Chinese Journal of Luminescence</i> , 2022, 43, 58-68.	0.5	7
6	Catalytic co-pyrolysis of herb residue and polypropylene for pyrolysis products upgrading and diversification using nickel-X/biochar and ZSM-5 (X=Åiron, cobalt, copper). <i>Bioresource Technology</i> , 2022, 349, 126845.	9.6	27
7	Anti-thermal-quenching, color-tunable and ultra-narrow-band cyan green-emitting phosphor for w-LEDs with enhanced color rendering. <i>Chemical Engineering Journal</i> , 2022, 433, 134079.	12.7	32
8	A high thermal stability Cr³⁺-doped gallate far red phosphor for plant lighting: structure, luminescence enhancement and application prospect. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5829-5839.	5.5	23
9	Manganese Ionâ€Sensitized Nearâ€Infrared Light in Cs₂NaBi_{1âˆˆ}_x_xEr_xCl₆ Leadâ€Free Double Perovskite. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	16
10	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. <i>Science of the Total Environment</i> , 2022, 831, 154751.	8.0	17
11	A simple and generic post-treatment strategy for highly efficient Cr³⁺-activated broadband NIR emitting phosphors for high-power NIR light sources. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8797-8805.	5.5	25
12	Multiple Strategies to Approach High-Efficiency Luminescence Controllable in Blue/Cyan/Green-Emitting Bi³⁺-Activated Phosphors. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9195-9206.	3.1	16
13	Catalytic Activity and Reusability of Nickel-Based Catalysts with Different Biochar Supports during Copyrolysis of Biomass and Plastic. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9933-9945.	6.7	4
14	Study on the difference between in-situ and ex-situ catalytic pyrolysis of oily sludge. <i>Environmental Science and Pollution Research</i> , 2021, 28, 50500-50509.	5.3	5
15	Enhanced luminescence and energy transfer performance of double perovskite structure Gd ₂ MgTiO ₆ :Bi ³⁺ , Mn ⁴⁺ phosphor for indoor plant growth LED lighting. <i>Ceramics International</i> , 2021, 47, 16588-16596.	4.8	51
16	The mechanism transformation of ramie biocharâ€™s cadmium adsorption by aging. <i>Bioresource Technology</i> , 2021, 330, 124947.	9.6	35
17	Tuning the luminescence properties of blue and farâ€red dual emitting Gd₂MgTiO₆: Bi³⁺, Cr³⁺ phosphor for LED plant lamp. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6444-6454.	3.8	17
18	An Efficient Hole Transporting Polymer for Quantum Dot Lightâ€Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100731.	3.7	16

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19	Bi ³⁺ occupancy rearrangement in K _{2-x} Al _x MgGeO ₄ phosphor to achieve ultra-broad-band white emission based on alkali metal substitution engineering. Applied Surface Science, 2021, 563, 150252.	6.1	24
20	Torrefied herb residues in nitrogen, air and oxygen atmosphere: Thermal decomposition behavior and pyrolytic products characters. Bioresource Technology, 2021, 342, 125991.	9.6	9
21	Interconnected structure Si@TiO ₂ -B/CNTs composite anode applied for high-energy lithium-ion batteries. Applied Surface Science, 2020, 500, 144026.	6.1	33
22	High thermal stability and blue-violet emitting phosphor CaYAlO ₄ :Ti ⁴⁺ with enhanced emission by Ca ²⁺ vacancies. Journal of Rare Earths, 2020, 38, 227-233.	4.8	11
23	Engineering cation vacancies to improve the luminescence properties of Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ : Mn ⁴⁺ phosphors for LED plant lamp. Journal of the American Ceramic Society, 2020, 103, 1798-1808.	3.8	32
24	<i>In situ</i> synthesis of high-efficiency CsPbBr ₃ /CsPb ₂ Br ₅ composite nanocrystals in aqueous solution of microemulsion. Green Chemistry, 2020, 22, 5257-5261.	9.0	16
25	Structure analysis, tuning photoluminescence and enhancing thermal stability on Mn ⁴⁺ -doped La _{2-x} Y _x MgTiO ₆ red phosphor for agricultural lighting. Ceramics International, 2020, 46, 20173-20182.	4.8	61
26	Tuning the luminescence properties of Mn ⁴⁺ -activated CaYAlO ₄ phosphor by co-doping cations for indoor plant cultivation. Journal of the American Ceramic Society, 2020, 103, 4373-4383.	3.8	16
27	Effect of Calcium-Based Catalysts on Pyrolysis Liquid Products from Municipal Sludge. Bioenergy Research, 2020, 13, 887-895.	3.9	6
28	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
29	Pyrophosphate Phosphor Solid Solution with High Quantum Efficiency and Thermal Stability for Efficient LED Lighting. IScience, 2020, 23, 100892.	4.1	27
30	Plant habitat-conscious phosphors: Tuneable luminescence properties of Dy ³⁺ -doped Ca ₈ ZnY(PO ₄) ₇ phosphors by co-dopants Mg ²⁺ and B ³⁺ . Ceramics International, 2020, 46, 11717-11725.	4.8	23
31	Red shift properties, crystal field theory and nephelauxetic effect on Mn ⁴⁺ -doped SrMgAl _{10-y} Ga _y O ₁₇ red phosphor for plant growth LED light. Chemical Engineering Journal, 2020, 396, 125208.	12.7	124
32	Synthesis and photoluminescence properties of novel red-emitting phosphor SrAl ₃ BO ₇ :Mn ⁴⁺ with enhanced emission by Mg ²⁺ /Zn ²⁺ /Ca ²⁺ incorporation for plant growth LED lighting. Ceramics International, 2019, 45, 23528-23539.	4.8	31
33	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
34	One-step microwave-assisted preparation of oxygen-rich multifunctional carbon quantum dots and their application for Cu ²⁺ -curcumin detection. Talanta, 2019, 205, 120117.	5.5	47
35	A novel green phosphor Sr ₈ ZnY(PO ₄) ₇ :Eu ²⁺ , Ln ³⁺ (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
36	Novel orange-red emitting phosphor Sr ₈ ZnY(PO ₄) ₇ :Sm ³⁺ with enhanced emission based on Mg ²⁺ and Al ³⁺ incorporation for plant growth LED lighting. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 360-368.	5.3	31

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37	A novel Na ₃ La(PO ₄) ₂ /LaPO ₄ :Eu blue-red dual-emitting phosphor with high thermal stability for plant growth lighting. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2385-2393.	5.5	53
38	High-performance and moisture-resistant red-emitting Cs ₂ SiF ₆ :Mn ⁴⁺ for high-brightness LED backlighting. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2401-2407.	5.5	74
39	Photoluminescence properties and energy transfer in a novel Sr ₈ ZnY(PO ₄) ₇ :Tb ³⁺ ,Eu ³⁺ phosphor with high thermal stability and its great potential for application in warm white light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2927-2935.	5.5	104
40	Chemical Transformation of Lead Halide Perovskite into Insoluble, Less Cytotoxic, and Brightly Luminescent CsPbBr ₃ /CsPb ₂ Br ₅ Composite Nanocrystals for Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24241-24246.	8.0	81
41	Enhancing quantum efficiency and tuning photoluminescence properties in far-red-emitting phosphor Ca ₁₄ Ga ₁₀ Zn ₆ O ₃₅ :Mn ⁴⁺ based on chemical unit engineering. <i>Chemical Engineering Journal</i> , 2019, 374, 381-391.	12.7	112
42	Enhancing the electrochemical performance of micron-scale SiO ₂ /CNTs anode via adding piezoelectric material BaTiO ₃ for high-power lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 800, 116-124.	5.5	21
43	Enhancing photoluminescence properties of Mn ⁴⁺ -activated Sr ₄ Al ₂ BaAl ₁₄ O ₂₅ red phosphors for plant cultivation LEDs. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7386-7396.	3.8	16
44	Enhanced cycling performance and rate capacity of SiO anode material by compositing with monoclinic TiO ₂ (B). <i>Applied Surface Science</i> , 2019, 486, 292-302.	6.1	26
45	Enhanced photoluminescence and energy transfer performance of Y ₃ Al ₄ GaO ₁₂ :Mn ⁴⁺ ,Dy ³⁺ phosphors for plant growth LED lights. <i>RSC Advances</i> , 2019, 9, 9244-9252.	3.6	36
46	In situ modification provided by a novel wet pyrolysis system to enhance surface properties of biochar for lead immobilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 39-47.	4.7	27
47	Enhance the luminescence properties of Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :Ti ⁴⁺ phosphor via cation vacancies engineering of Ca ²⁺ and Zn ²⁺ . <i>Ceramics International</i> , 2019, 45, 9977-9985.	4.8	22
48	Improving the electrochemical properties of a SiO ₂ /C/graphite composite anode for high-energy lithium-ion batteries by adding lithium fluoride. <i>Applied Surface Science</i> , 2019, 480, 410-418.	6.1	48
49	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. <i>Journal of Environmental Management</i> , 2019, 237, 128-138.	7.8	266
50	Scalable synthesis SiO ₂ /C anode by fluidization thermal chemical vapor deposition in fluidized bed reactor for high-energy lithium-ion battery. <i>Applied Surface Science</i> , 2019, 467-468, 298-308.	6.1	35
51	Improving the electrochemical properties of SiO ₂ /C anode for high-energy lithium ion battery by adding graphite through fluidization thermal chemical vapor deposition method. <i>Ceramics International</i> , 2019, 45, 1950-1959.	4.8	28
52	Enhancing the electrochemical properties of LiTi ₂ (PO ₄) ₃ /C anode for aqueous rechargeable lithium battery by Li vacancy. <i>Solid State Ionics</i> , 2018, 315, 1-6.	2.7	22
53	Effect of pyrolysis condition on the adsorption mechanism of lead, cadmium and copper on tobacco stem biochar. <i>Journal of Cleaner Production</i> , 2018, 187, 996-1005.	9.3	118
54	Improved luminescence and energy-transfer properties of Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :Ti ⁴⁺ ,Mn ⁴⁺ deep-red-emitting phosphors with high brightness for light-emitting diode (LED) plant-growth lighting. <i>Dalton Transactions</i> , 2018, 47, 13713-13721.	3.3	61

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55	pH dependent hydrothermal synthesis of Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :0.15Mn ⁴⁺ phosphor with enhanced photoluminescence performance and high thermal resistance for indoor plant growth lighting. <i>Ceramics International</i> , 2018, 44, 19779-19786.	4.8	25
56	Tunable dual emission of Ca ₃ Al ₄ ZnO ₁₀ :Bi ³⁺ , Mn ⁴⁺ via energy transfer for indoor plant growth lighting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8914-8922.	5.5	134
57	Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. <i>Bioresource Technology</i> , 2017, 232, 204-210.	9.6	273
58	Dy ³⁺ @Mn ⁴⁺ co-doped Ca ₁₄ Ga ₁₀ Al _m Zn ₆ O ₃₅ far-red emitting phosphors with high brightness and improved luminescence and energy transfer properties for plant growth LED lights. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8201-8210.	5.5	112
59	Effect of phosphoric acid on the surface properties and Pb(II) adsorption mechanisms of hydrochars prepared from fresh banana peels. <i>Journal of Cleaner Production</i> , 2017, 165, 221-230.	9.3	114
60	Research progress and application prospects of transition metal Mn ⁴⁺ -activated luminescent materials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9143-9161.	5.5	228
61	Performance improvement by alumina coatings on Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor powder deposited using atomic layer deposition in a fluidized bed reactor. <i>RSC Advances</i> , 2016, 6, 76454-76462.	3.6	27
62	Origin and Luminescence of Anomalous Red-Emitting Center in Rhombohedral Ba ₉ Lu ₂ Si ₆ O ₂₄ :Eu ²⁺ Blue Phosphor. <i>Inorganic Chemistry</i> , 2016, 55, 8628-8635.	4.0	40