

Xianbo Wu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9480336/publications.pdf>

Version: 2024-02-01

21
papers

1,160
citations

516215

16
h-index

713013

21
g-index

21
all docs

21
docs citations

21
times ranked

746
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Research progress and application prospects of transition metal Mn ⁴⁺ -activated luminescent materials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9143-9161. | 2.7 | 228 |
| 2 | 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. | 2.7 | 134 |
| 3 | 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. | 2.7 | 112 |
| 4 | 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. | 6.6 | 112 |
| 5 | 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. | 2.7 | 104 |
| 6 | 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. | 2.7 | 74 |
| 7 | 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. | 1.6 | 61 |
| 8 | 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. | 2.7 | 53 |
| 9 | Engineering cation vacancies to improve the luminescence properties of Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ : Mn ⁴⁺ phosphors for LED plant lamp. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1798-1808. | 1.9 | 32 |
| 10 | 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. <i>Ceramics International</i> , 2019, 45, 23528-23539. | 2.3 | 31 |
| 11 | 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. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 360-368. | 2.7 | 31 |
| 12 | 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. | 1.7 | 27 |
| 13 | A high thermal stability Cr ³⁺ -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. | 2.7 | 23 |
| 14 | 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. | 2.3 | 22 |
| 15 | Accessing deep-red emission using chemical units cosubstituted LaTiSbO ₆ :Mn ⁴⁺ phosphor. <i>Ceramics International</i> , 2022, 48, 29547-29553. | 2.3 | 20 |
| 16 | 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. | 2.3 | 18 |
| 17 | Tuning the luminescence properties of blue and far-red dual emitting Gd ₂ MgTiO ₆ : Bi ³⁺ , Cr ³⁺ phosphor for LED plant lamp. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6444-6454. | 1.9 | 17 |
| 18 | Enhancing photoluminescence properties of Mn ⁴⁺ -activated Sr ₄ Ba _x Al ₁₄ O ₂₅ red phosphors for plant cultivation LEDs. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7386-7396. | 1.9 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Tuning the luminescence properties of Mn ⁴⁺ -activated CaYAlO ₄ phosphor by co-doping cations for indoor plant cultivation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4373-4383. | 1.9 | 16 |
| 20 | 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. <i>Journal of Luminescence</i> , 2019, 214, 116600. | 1.5 | 15 |
| 21 | Cold-catalytic antitumor immunity with pyroelectric black phosphorus nanosheets. <i>Chemical Science</i> , 2022, 13, 6842-6851. | 3.7 | 14 |