

Xicheng Wang

List of Publications by Year in descending order

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42
papers

1,809
citations

304743

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265206

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all docs

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docs citations

42
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitive and Reliable Fluorescent Thermometer Based on a Red-Emitting $\text{Li}_2\text{MgHfO}_4\text{:Mn}^{4+}$ Phosphor. <i>Inorganic Chemistry</i> , 2022, 61, 8126-8134.	4.0	12
2	Design of Novel Highly Efficient Yellow-Orange Color-Tunable Luminescence in $\text{Rb}_2\text{SrLaCaPO}_7\text{:Eu}^{2+}$ Solid Solutions for White Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1087-1092.	4.6	18
3	Unraveling the Defect-Related Luminescence in a Eu^{2+} -Doped Chlorosilicate Phosphor. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 958-965.	4.6	15
4	Design of a broadband cyan-emitting phosphor with robust thermal stability for high-power WLED application. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161217.	5.5	31
5	New strategy of designing a novel yellow-emitting phosphor $\text{Na}_4\text{Hf}_2\text{Si}_3\text{O}_{12}\text{:Eu}^{2+}$ for multifunctional applications. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152762.	5.5	10
6	A novel germanate based red-emitting phosphor with high efficiency, high color purity and thermal stability for white light-emitting diodes and field emission displays. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1034-1045.	6.0	49
7	Perovskite Quantum Dots for Application in High Color Gamut Backlighting Display of Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 3374-3396.	17.4	162
8	Luminescence in external dopant-free scandium-phosphorus vanadate solid solution: a spectroscopic and theoretical investigation. <i>Materials Advances</i> , 2020, 1, 2467-2482.	5.4	2
9	Constructing a single-white-light emission by finely modulating the occupancy of luminescence centers in europium-doped $(\text{Ca}_{1-x}\text{Sr}_x)_9\text{Bi}(\text{PO}_4)_7$ for WLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9576-9584.	5.5	19
10	Full-visible-spectrum lighting realized by a novel Eu^{2+} -doped cyan-emitting borosilicate phosphor. <i>CrystEngComm</i> , 2020, 22, 4702-4709.	2.6	17
11	A $\text{K}_3\text{ScSi}_2\text{O}_7\text{:Eu}^{2+}$ based phosphor with broad-band NIR emission and robust thermal stability for NIR pc-LEDs. <i>Chemical Communications</i> , 2020, 56, 4644-4647.	4.1	64
12	Controlling the nucleation process of InP/ZnS quantum dots using zeolite as a nucleation site. <i>CrystEngComm</i> , 2020, 22, 3474-3481.	2.6	7
13	Design of a novel scandium silicate based blue-emitting phosphor with high efficiency and robust thermal stability for warm WLEDs and field emission displays. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2120-2127.	5.9	25
14	Insights into a novel garnet-based yellowish-green phosphor: structure, luminescence properties and application for warm white light-emitting diodes. <i>CrystEngComm</i> , 2019, 21, 6100-6108.	2.6	13
15	Structural design of new $\text{Ce}^{3+}/\text{Eu}^{2+}$ -doped or co-doped phosphors with excellent thermal stabilities for WLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1792-1820.	5.5	101
16	Insight into a novel rare-earth-free red-emitting phosphor $\text{Li}_3\text{Mg}_2\text{NbO}_6\text{:Mn}^{4+}$: Structure and luminescence properties. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6724-6731.	3.8	27
17	A novel blue-emitting Eu^{2+} -doped chlorine silicate phosphor with a narrow band for illumination and displays: structure and luminescence properties. <i>CrystEngComm</i> , 2019, 21, 3660-3667.	2.6	19
18	$\text{LiCaAlN}_2\text{:Eu}^{3+}/\text{Tb}^{3+}$: Red and green phosphors for LEDs and FEDs with charge transfer transition in $\text{n}\text{-}\text{UV}$ region. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3088-3098.	3.8	11

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19	A Potential Red-Emitting Phosphor BaZrGe ₃ O ₉ :Eu ³⁺ for WLED and FED Applications: Synthesis, Structure, and Luminescence Properties. <i>Inorganic Chemistry</i> , 2017, 56, 6990-6998.	4.0	155
20	Tunable white light of multi-cation-site Na ₂ BaCa(PO ₄) ₂ :Eu,Mn phosphor: synthesis, structure and PL/CL properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1184-1194.	5.5	52
21	Synthesis, Crystal Structure, and Luminescence Properties of Tunable Red-Emitting Nitride Solid Solutions (Ca _{1-x} Sr _x) ₁₆ Si ₁₇ N ₃₄ :Eu ²⁺ for White LEDs. <i>Inorganic Chemistry</i> , 2017, 56, 10904-10913.	4.0	36
22	A facile strategy for synthesis of spinel ferrite nano-granules and their potential applications. <i>RSC Advances</i> , 2016, 6, 66795-66802.	3.6	10
23	High saturation magnetization of $\hat{1}^3$ -Fe ₂ O ₃ nano-particles by a facile one-step synthesis approach. <i>Scientific Reports</i> , 2016, 6, 32360.	3.3	125
24	Novel zirconium silicate phosphor K ₂ ZrSi ₂ O ₇ :Eu ²⁺ for white light-emitting diodes and field emission displays. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5307-5313.	5.5	56
25	A Garnet-Based Ca ₂ YZr ₂ Al ₃ O ₁₂ :Eu ³⁺ Red-Emitting Phosphor for n-UV Light Emitting Diodes and Field Emission Displays: Electronic Structure and Luminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 11072-11077.	4.0	114
26	Structure, photoluminescence and abnormal thermal quenching behavior of Eu ²⁺ -doped Na ₃ Sc ₂ (PO ₄) ₃ : a novel blue-emitting phosphor for n-UV LEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8795-8801.	5.5	148
27	Luminescence properties of Eu ²⁺ -doped BaSi ₂ O ₅ as an efficient green phosphor for light-emitting devices and wide color gamut field emission displays. <i>New Journal of Chemistry</i> , 2016, 40, 8549-8555.	2.8	23
28	Synthesis, structure and photoluminescence properties of Ca ₂ LuHf ₂ (AlO ₄) ₃ :Ce ³⁺ , a novel garnet-based cyan light-emitting phosphor. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11396-11403.	5.5	67
29	Nonmetal sulfur-doped coral-like cobalt ferrite nanoparticles with enhanced magnetic properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 951-957.	5.5	24
30	A double substitution induced Ca(Mg _{0.8} , Al _{0.2})(Si _{1.8}) ₂ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 luminescence properties. <i>Dalton Transactions</i> , 2015, 44, 13196-13203.	3.3	17
31	Blue to green emission and energy transfer between Ce ³⁺ ions in Ca ₁₅ Si ₂₀ O ₁₀ N ₃₀ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 8949-8955.	5.5	15
32	Synthesis, Structure, and Photoluminescence Properties of Ce ³⁺ -Doped Ca ₂ YZr ₂ Al ₃ O ₁₂ : A Novel Garnet Phosphor for White LEDs. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16208-16214.	3.1	93
33	Synthesis, structure, and luminescence properties of SrSiAl ₂ O ₃ N ₂ :Eu ²⁺ phosphors for light-emitting devices and field emission displays. <i>Dalton Transactions</i> , 2015, 44, 11057-11066.	3.3	65
34	Effect of a solid solution of AlN on the crystal structure and optical properties of LiSi ₂ N ₃ :Eu phosphors. <i>RSC Advances</i> , 2015, 5, 31255-31261.	3.6	2
35	Photoluminescence and cathodoluminescence properties of Na ₂ MgGeO ₄ :Mn ²⁺ green phosphors. <i>RSC Advances</i> , 2015, 5, 104708-104714.	3.6	21
36	Tunable blue-green-emitting Ca ₃ Si ₂ O ₄ N ₂ :Ce ³⁺ , Eu ²⁺ phosphor with energy transfer for light-emitting diodes. <i>RSC Advances</i> , 2014, 4, 63569-63575.	3.6	20

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37	Synthesis, crystal structure and luminescence properties of a $\text{Y}_{4}\text{Si}_{2}\text{O}_{7}\text{N}_{2}:\text{Ce}^{3+}$ phosphor for near-UV white LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4967-4973.	5.5	44
38	Novel optical characteristics of Eu^{2+} doped and Eu^{2+} , Ce^{3+} co-doped $\text{LiSi}_{2}\text{N}_{3}$ phosphors by gas-pressed sintering. <i>RSC Advances</i> , 2014, 4, 39030.	3.6	23
39	A facile one-step hydrothermal synthesis of a B-doped graphene/rod-shaped TiO_{2} nanocomposite. <i>RSC Advances</i> , 2014, 4, 37992.	3.6	11
40	Luminescence properties of $\text{Ca}_{2}\text{Si}_{5}\text{N}_{8}:\text{Eu}^{2+}$ prepared by gas-pressed sintering using BaF_{2} as flux and cation substitution. <i>RSC Advances</i> , 2014, 4, 55388-55393.	3.6	6
41	Synthesis and luminescence characteristics of nitride $\text{Ca}_{1.4}\text{Al}_{2.8}\text{Si}_{9.2}\text{N}_{16}:\text{Ce}^{3+}$, Li^{+} for light-emitting devices and field emission displays. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7731.	5.5	31
42	Preparation of $\text{Sr}_{1-x}\text{Ca}_{x}\text{YSi}_{4}\text{N}_{7}:\text{Eu}^{2+}$ solid solutions and their luminescence properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4476-4481.	5.5	54