Xicheng Wang

List of Publications by Year
in descending order

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42	1,809	304743	265206
papers	citations	22 h-index	42 g-index

42	42	42	1517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perovskite Quantum Dots for Application in High Color Gamut Backlighting Display of Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 3374-3396.	17.4	162
2	A Potential Red-Emitting Phosphor BaZrGe₃O₉:Eu³⁺ for WLED and FED Applications: Synthesis, Structure, and Luminescence Properties. Inorganic Chemistry, 2017, 56, 6990-6998.	4.0	155
3	Structure, photoluminescence and abnormal thermal quenching behavior of Eu²⁺-doped Na₃Sc₂(PO₄)₃: a novel blue-emitting phosphor for n-UV LEDs. Journal of Materials Chemistry C, 2016, 4, 8795-8801.	5.5	148
4	High saturation magnetization of Î³-Fe2O3 nano-particles by a facile one-step synthesis approach. Scientific Reports, 2016, 6, 32360.	3.3	125
5	A Garnet-Based Ca₂YZr₂Al₃O₁₂:Eu³⁺ Red-Emitting Phosphor for n-UV Light Emitting Diodes and Field Emission Displays: Electronic Structure and Luminescence Properties. Inorganic Chemistry, 2016, 55, 11072-11077.	4.0	114
6	Structural design of new Ce³⁺/Eu²⁺-doped or co-doped phosphors with excellent thermal stabilities for WLEDs. Journal of Materials Chemistry C, 2019, 7, 1792-1820.	5.5	101
7	Synthesis, Structure, and Photoluminescence Properties of Ce³⁺-Doped Ca₂YZr₂Al₃O₁₂: A Novel Garnet Phosphor for White LEDs. Journal of Physical Chemistry C, 2015, 119, 16208-16214.	3.1	93
8	Synthesis, structure and photoluminescence properties of Ca₂LuHf₂(AlO₄)₃:Ce³⁺, a novel garnet-based cyan light-emitting phosphor. Journal of Materials Chemistry C, 2016, 4, 11396-11403.	5.5	67
9	Synthesis, structure, and luminescence properties of SrSiAl₂O₃N₂:Eu²⁺ phosphors for light-emitting devices and field emission displays. Dalton Transactions, 2015, 44, 11057-11066.	3.3	65
10	A K₃ScSi₂O₇:Eu²⁺based phosphor with broad-band NIR emission and robust thermal stability for NIR pc-LEDs. Chemical Communications, 2020, 56, 4644-4647.	4.1	64
11	Novel zirconium silicate phosphor K₂ZrSi₂O₇:Eu²⁺for white light-emitting diodes and field emission displays. Journal of Materials Chemistry C, 2016, 4, 5307-5313.	5.5	56
12	Preparation of Sr_{1â^'x}Ca_xYSi₄N₇:Eu²⁺solid solutions and their luminescence properties. Journal of Materials Chemistry C, 2014, 2, 4476-4481.	5.5	54
13	Tunable white light of multi-cation-site Na₂BaCa(PO₄)₂:Eu,Mn phosphor: synthesis, structure and PL/CL properties. Journal of Materials Chemistry C, 2017, 5, 1184-1194.	5.5	52
14	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. Inorganic Chemistry Frontiers, 2020, 7, 1034-1045.	6.0	49
15	Synthesis, crystal structure and luminescence properties of a Y₄Si₂O₇N₂:Ce³⁺ phosphor for near-UV white LEDs. Journal of Materials Chemistry C, 2014, 2, 4967-4973.	5.5	44
16	Synthesis, Crystal Structure, and Luminescence Properties of Tunable Red-Emitting Nitride Solid Solutions (Ca_{1â€“x}Sr_x)₁₆Si₁₇N₃₄:Eu²⁺ for White LEDs. Inorganic Chemistry, 2017, 56, 10904-10913.	4.0	36
17	Synthesis and luminescence characteristics of nitride Ca_{1.4}Al_{2.8}Si_{9.2}N₁₆:Ce³⁺, Li⁺for light-emitting devices and field emission displays. Journal of Materials Chemistry C, 2014, 2, 7731.	5.5	31
18	Design of a broadband cyan-emitting phosphor with robust thermal stability for high-power WLED application. Journal of Alloys and Compounds, 2021, 886, 161217.	5.5	31

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19	Insight into a novel rareâ€earthâ€free redâ€emitting phosphor Li 3 Mg 2 NbO 6 :Mn 4+ : Structure and luminescence properties. Journal of the American Ceramic Society, 2019, 102, 6724-6731.	3.8	27
20	Design of a novel scandium silicate based blue-emitting phosphor with high efficiency and robust thermal stability for warm WLEDs and field emission displays. Materials Chemistry Frontiers, 2019, 3, 2120-2127.	5.9	25
21	Nonmetal sulfur-doped coral-like cobalt ferrite nanoparticles with enhanced magnetic properties. Journal of Materials Chemistry C, 2016, 4, 951-957.	5.5	24
22	Novel optical characteristics of Eu²⁺doped and Eu²⁺, Ce³⁺co-doped LiSi₂N₃phosphors by gas-pressed sintering. RSC Advances, 2014, 4, 39030.	3.6	23
23	Luminescence properties of Eu²⁺-doped BaSi₂O₅ as an efficient green phosphor for light-emitting devices and wide color gamut field emission displays. New Journal of Chemistry, 2016, 40, 8549-8555.	2.8	23
24	Photoluminescence and cathodoluminescence properties of Na₂MgGeO₄:Mn²⁺ green phosphors. RSC Advances, 2015, 5, 104708-104714.	3.6	21
25	Tunable blue-green-emitting Ca₃Si₂O₄N₂:Ce³⁺, Eu²⁺phosphor with energy transfer for light-emitting diodes. RSC Advances, 2014, 4, 63569-63575.	3.6	20
26	A novel blue-emitting Eu²⁺-doped chlorine silicate phosphor with a narrow band for illumination and displays: structure and luminescence properties. CrystEngComm, 2019, 21, 3660-3667.	2.6	19
27	Constructing a single-white-light emission by finely modulating the occupancy of luminescence centers in europium-doped (Ca_{1â”x}Sr_x)₉Bi(PO₄)₇ for WLEDs. Journal of Materials Chemistry C, 2020, 8, 9576-9584.	5.5	19
28	A double substitution induced Ca(Mg_{0.8}, Al_{0.2})(Si_{1.8},) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 luminescence properties. Dalton Transactions, 2015, 44, 13196-13203.	3.3	17
29	Full-visible-spectrum lighting realized by a novel Eu²⁺-doped cyan-emitting borosilicate phosphor. CrystEngComm, 2020, 22, 4702-4709.	2.6	17
30	Blue to green emission and energy transfer between Ce³⁺ ions in Ca₁₅Si₂₀O₁₀N₃₀. Journal of Materials Chemistry C, 2015, 3, 8949-8955.	5.5	15
31	Unraveling the Defect-Related Luminescence in a Eu²⁺-Doped Chlorosilicate Phosphor. Journal of Physical Chemistry Letters, 2021, 12, 958-965.	4.6	15
32	Insights into a novel garnet-based yellowish-green phosphor: structure, luminescence properties and application for warm white light-emitting diodes. CrystEngComm, 2019, 21, 6100-6108.	2.6	13
33	Design of Novel Highly Efficient Yellow-Orange Color-Tunable Luminescence in Rb₂Sr_{1â€“y}Ca_yP₂O₇:xEu²⁺ Solid Solutions for White Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021, 12, 1087-1092.	4.6	13
34	Sensitive and Reliable Fluorescent Thermometer Based on a Red-Emitting Li₂MgHfO₄:Mn⁴⁺ Phosphor. Inorganic Chemistry, 2022, 61, 8126-8134.	4.0	12
35	A facile one-step hydrothermal synthesis of a B-doped graphene/rod-shaped TiO2nanocomposite. RSC Advances, 2014, 4, 37992.	3.6	11
36	LiCaAlN₂:Eu³⁺/Tb³⁺: Red and green phosphors for LEDs and FEDs with charge transfer transition in nâ€UV region. Journal of the American Ceramic Society, 2017, 100, 3088-3098.	3.8	11

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37	A facile strategy for synthesis of spinel ferrite nano-granules and their potential applications. RSC Advances, 2016, 6, 66795-66802.	3.6	10
38	New strategy of designing a novel yellow-emitting phosphor Na4Hf2Si3O12:Eu2+ for multifunctional applications. Journal of Alloys and Compounds, 2020, 817, 152762.	5.5	10
39	Controlling the nucleation process of InP/ZnS quantum dots using zeolite as a nucleation site. CrystEngComm, 2020, 22, 3474-3481.	2.6	7
40	Luminescence properties of Ca2Si5N8:Eu2+ prepared by gas-pressed sintering using BaF2 as flux and cation substitution. RSC Advances, 2014, 4, 55388-55393.	3.6	6
41	Effect of a solid solution of AlN on the crystal structure and optical properties of LiSi2N3:Eu phosphors. RSC Advances, 2015, 5, 31255-31261.	3.6	2
42	Luminescence in external dopant-free scandium-phosphorus vanadate solid solution: a spectroscopic and theoretical investigation. Materials Advances, 2020, 1, 2467-2482.	5.4	2