Jian Xu

List of Publications by Year
in descending order

41 papers	801 citations	471061 17 h-index	525886 27 g-index
42 all docs	42 docs citations	42 times ranked	581 citing authors

#	Article	IF	Citations
1	Investigation of an LuAG:Ce translucent ceramic synthesized via spark plasma sintering: Towards a facile synthetic route, robust thermal performance, and high-power solid state laser lighting. Journal of the European Ceramic Society, 2018, 38, 343-347.	2.8	78
2	Investigation of laser-induced luminescence saturation in a single-crystal YAG:Ce phosphor: Towards unique architecture, high saturation threshold, and high-brightness laser-driven white lighting. Journal of Luminescence, 2019, 212, 279-285.	1.5	71
3	Studies on the corrosion behavior of yttrium-implanted zircaloy-4. Journal of Materials Science, 2000, 35, 6225-6229.	1.7	48
4	Effect of yttrium ion implantation on aqueous corrosion resistance of zircaloy-4. Journal of Materials Science Letters, 2000, 19, 1633-1635.	0.5	45
5	Design of laser-driven SiO2-YAG:Ce composite thick film: Facile synthesis, robust thermal performance, and application in solid-state laser lighting. Optical Materials, 2018, 75, 508-512.	1.7	43
6	Design of a CaAlSiN3:Eu/glass composite film: Facile synthesis, high saturation-threshold and application in high-power laser lighting. Journal of the European Ceramic Society, 2020, 40, 4704-4708.	2.8	33
7	Lu 3 Al 5 O 12 :Ce@SiO 2 phosphor-in-glass: Its facile synthesis, reduced thermal/chemical degradation and application in high-power white LEDs. Journal of the European Ceramic Society, 2016, 36, 2017-2025.	2.8	31
8	Comparative study of Al2O3-YAG:Ce composite ceramic and single crystal YAG:Ce phosphors for high-power laser lighting. Ceramics International, 2020, 46, 17923-17928.	2.3	31
9	Industry-friendly synthesis and high saturation threshold of a LuAG:Ce/glass composite film realizing high-brightness laser lighting. Journal of the European Ceramic Society, 2020, 40, 6031-6036.	2.8	30
10	Novel high-thermal-conductivity composite ceramic phosphors for high-brightness laser-driven lighting. Journal of Materials Chemistry C, 2021, 9, 10487-10496.	2.7	28
11	Carbon-free synthesis and luminescence saturation in a thick YAG:Ce film for laser-driven white lighting. Journal of the European Ceramic Society, 2019, 39, 631-634.	2.8	24
12	CaAlSiN3:Eu/glass composite film in reflective configuration: A thermally robust and efficient red-emitting color converter with high saturation threshold for high-power high color rendering laser lighting. Ceramics International, 2021, 47, 15307-15312.	2.3	23
13	A carbon-free solâ€“gel method for preparation of Lu 3 Al 5 O 12 : Ce 3+ phosphors for potential applications in laser scintillators and LEDs. Materials Letters, 2014, 133, 1-4.	1.3	20
14	Preparation of paraffin/SiO2 aerogel stable-stabilized phase change composites for high-humidity environment. Journal of Materials Science, 2020, 55, 1511-1524.	1.7	20
15	Microsized Red Luminescent MgAl₂O₄:Mn⁴⁺ Single-Crystal Phosphor Grown in Molten Salt for White LEDs. Inorganic Chemistry, 2020, 59, 18374-18383.	1.9	19
16	High dielectric performance of (Nb5+, Lu3+) co-doped TiO2 ceramics in a broad temperature range. Materials Letters, 2020, 271, 127838.	1.3	19
17	Emitting area limitation via scattering control in phosphor film realizing high-luminance laser lighting. Journal of the European Ceramic Society, 2022, 42, 608-615.	2.8	19
18	The Influence of Yttrium Ion Implantation on the Oxidation Behavior of Zircaloy-4 at 600 Â°C. Journal of Materials Science Letters, 1999, 18, 715-717.	0.5	18

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19	Surface roughness: A review of its measurement at micro-/nano-scale. ChemistrySelect, 2018, 3, .	0.7	17
20	Preparation Eu-doped ca-Î±-SiAlON phosphor by heterogeneous precipitation: An orangeâ€“yellow phosphor for white light-emitting diodes. Ceramics International, 2015, 41, 11086-11090.	2.3	15
21	Preparation of electrospun YAG:Ce nanofiber-based phosphor layer for white LEDs application. Ceramics International, 2016, 42, 4616-4620.	2.3	15
22	DLX3 promotes bone marrow mesenchymal stem cell proliferation through H19/miR-675 axis. Clinical Science, 2017, 131, 2721-2735.	1.8	15
23	The crystallization, thermodynamic and thermoelectric properties of vast off-stoichiometric Snâ€“Se crystals. Journal of Materials Chemistry C, 2020, 8, 6422-6434.	2.7	14
24	Senescence: novel insight into DLX3 mutations leading to enhanced bone formation in Tricho-Dento-Osseous syndrome. Scientific Reports, 2016, 6, 38680.	1.6	12
25	Solution growth of millimeterâ€scale Na₂SiF₆ single crystals for Mn⁴⁺â€doping as red phosphor. Journal of the American Ceramic Society, 2021, 104, 5077-5085.	1.9	11
26	Thermodynamic, Structural and Thermoelectric Properties of AgSbTe2 Thick Films Developed by Melt Spinning. Nanomaterials, 2018, 8, 474.	1.9	10
27	Local coordination, electronic structure, and thermal quenching of Ce³⁺ in isostructural Sr₂GdAlO₅ and Sr₃AlO₄F phosphors. Journal of the American Ceramic Society, 2019, 102, 1316-1328.	1.9	10
28	Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	10
29	The aqueous corrosion of nuclear waste glasses revisited: Probing the surface and interfacial phenomena. Corrosion Science, 2018, 143, 65-75.	3.0	9
30	Synthesis and photoluminescent properties of Sr(1â^'x)Si2O2N2: xEu2+ phosphor prepared by polymer metal complex method for WLEDs applications. Materials Research Bulletin, 2016, 79, 69-72.	2.7	8
31	A unique color converter geometry for laser-driven white lighting. Optical Materials, 2018, 86, 286-290.	1.7	8
32	Preparation and thermoelectric performance of tetrahedrite-like cubic Cu3SbS3 compound. Journal of Materials Science: Materials in Electronics, 2021, 32, 10789-10802.	1.1	8
33	BaTiF₆:Mn⁴⁺ Red Phosphor: Synthesis of Single Crystals at Room Temperature and the High Hydrolysis-Resistant Property. Inorganic Chemistry, 2021, 60, 13212-13221.	1.9	7
34	Novel Lead-free Glass/Ceramics System with Low Permittivity, Low Loss for LTCC Application. International Journal of Applied Ceramic Technology, 2015, 12, E112-E116.	1.1	6
35	Comparison of electrochemical behaviors of zircaloy-4 irradiated by Ar and Zr ions. Journal of Materials Science Letters, 2000, 19, 943-945.	0.5	5
36	Role of synthesis method and Î±, Î²-Sr (2-x) SiO 4 : xEu 2+ phases on the photoluminescent properties of Sr (1-x) Si 2 O 2 N 2 : xEu 2+ phosphors. Materials Research Bulletin, 2016, 83, 468-473.	2.7	5

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37	Design of a Î² -SiAlON:Eu based phosphor-in-glass film with high saturation threshold for high-luminance laser-driven backlighting. Applied Physics Letters, 2021, 119, .	1.5	5
38	Advances in Valence State Analysis of Manganese in Mn⁴⁺-activated Red Phosphors for White LEDs. Chinese Journal of Luminescence, 2020, 41, 1195-1213.	0.2	4
39	Sr1.98Eu0.02SiO4 luminescence whisker based on vapor-phase deposition: Facile synthesis, uniform morphology and enhanced luminescence properties. Materials Research Bulletin, 2015, 71, 106-110.	2.7	3
40	Thermally Tunable Glass Foams with Controllable Pore Size via Network Manipulation: A Melt-Casting and Float-Manufacturable Glass Foaming Method. ACS Sustainable Chemistry and Engineering, 2018, 6, 8875-8881.	3.2	2
41	Determining Two-Dimensional Phosphor Surface Temperature Distribution of Phosphor-Coated LEDs Based on Hyper-Spectral Imaging. IEEE Journal of the Electron Devices Society, 2021, 9, 827-830.	1.2	1