Lei Chen

List of Publications by Year
in descending order

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59	2,278	304602	214721
papers	citations	22 h-index	47 g-index

61	61	61	2716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light Converting Inorganic Phosphors for White Light-Emitting Diodes. Materials, 2010, 3, 2172-2195.	1.3	480
2	The preparation of coupled WO3/TiO2 photocatalyst by ball milling. Powder Technology, 2005, 160, 198-202.	2.1	165
3	Combinatorial Approach to the Development of a Single Mass YVO₄:Bi³⁺,Eu³⁺ Phosphor with Red and Green Dual Colors for High Color Rendering White Light-Emitting Diodes. ACS Combinatorial Science, 2010, 12, 587-594.	3.3	140
4	Charge deformation and orbital hybridization: intrinsic mechanisms on tunable chromaticity of Y3Al5O12:Ce3+ luminescence by doping Gd3+ for warm white LEDs. Scientific Reports, 2015, 5, 11514.	1.6	102
5	The preparation of nitrogen-doped photocatalyst TiO2â^'xNx by ball milling. Chemical Physics Letters, 2005, 413, 404-409.	1.2	97
6	The preparation of coupled SnO2/TiO2 photocatalyst by ball milling. Materials Chemistry and Physics, 2006, 98, 116-120.	2.0	96
7	Graphitic C3N4 quantum dots for next-generation QLED displays. Materials Today, 2019, 22, 76-84.	8.3	85
8	Combinatorial chemistry approach to searching phosphors for white light-emitting diodes in (Gd-Y-Bi-Eu)VO4 quaternary system. Journal of Materials Chemistry, 2011, 21, 3677.	6.7	73
9	Combinatorial Study of the Optimization of Y2O3:Bi,Eu Red Phosphors. ACS Combinatorial Science, 2007, 9, 343-346.	3.3	65
10	Understanding the Local and Electronic Structures toward Enhanced Thermal Stable Luminescence of CaAlSiN₃:Eu²⁺. Chemistry of Materials, 2016, 28, 5505-5515.	3.2	57
11	A new green phosphor of SrAl2O4:Eu2+,Ce3+,Li+ for alternating current driven light-emitting diodes. Materials Research Bulletin, 2012, 47, 4071-4075.	2.7	51
12	Combinatorial Synthesis of Insoluble Oxide Library from Ultrafine/Nano Particle Suspension Using a Drop-on-Demand Inkjet Delivery System. ACS Combinatorial Science, 2004, 6, 699-702.	3.3	49
13	Site-selective luminescence of Bi3+ in the YBO3 host under vacuum ultraviolet excitation at low temperature. Journal of Luminescence, 2008, 128, 2027-2030.	1.5	47
14	Optimization of the Single-Phased White Phosphor of Li₂SrSiO₄: Eu²⁺, Ce³⁺ for Light-Emitting Diodes by Using the Combinatorial Approach Assisted with the Taguchi Method. ACS Combinatorial Science, 2012, 14, 636-644.	3.8	47
15	High quantum-yield CdSe_xS_{1â^'x}/ZnS core/shell quantum dots for warm white light-emitting diodes with good color rendering. Nanotechnology, 2013, 24, 285201.	1.3	42
16	High temperature thermoelectric properties and energy transfer devices of Ca3Co4â^'xAgxO9 and Ca1â^'ySmyMnO3. Journal of Alloys and Compounds, 2011, 509, 8970-8977.	2.8	40
17	The effect of electron cloud expansion on the red luminescence of Sr4Al14O25:Mn4+ revealed by calculation of the Racah parameters. Journal of Alloys and Compounds, 2014, 613, 312-316.	2.8	39
18	Improvement of emission efficiency and color rendering of high-power LED by controlling size of phosphor particles and utilization of different phosphors. Microelectronics Reliability, 2012, 52, 900-904.	0.9	37

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19	A new path for the synthesis of high quantum efficiency narrow-band-emitting K2TiF6:Mn4+ phosphor for wide-gamut displays. Chemical Engineering Journal, 2021, 407, 127161.	6.6	33
20	The intermediate role of Gd3+ in energy transfer to produce light under VUV excitation. Journal of Luminescence, 2008, 128, 2048-2052.	1.5	32
21	Photoluminescence properties of Eu3+ and Bi3+ in YBO3 host under vacuum ultraviolet/ultraviolet excitation. Journal of Applied Physics, 2009, 105, 013513.	1.1	31
22	Lead-Free Perovskite Narrow-Bandgap Oxide Semiconductors of Rare-Earth Manganates. ACS Omega, 2020, 5, 8766-8776.	1.6	31
23	The site-selective excitation and the dynamical electronâ€“lattice interaction on the luminescence of YBO3: Sb3+. Journal of Solid State Chemistry, 2013, 201, 229-236.	1.4	22
24	THE GREEN PHOSPHOR SrAl₂O₄:Eu²⁺, R³⁺ (R=Y, Dy) AND ITS APPLICATION IN ALTERNATING CURRENT LIGHT-EMITTING DIODES. Functional Materials Letters, 2013, 06, 1350047.	0.7	21
25	Origin of the red luminescence in Sr3Al2O6:Eu phosphorâ€”From the synergetic effects of Eu2+ and Eu3+. Journal of Rare Earths, 2017, 35, 127-134.	2.5	20
26	Reduced Local Symmetry in Lithium Compound Li₂SrSiO₄ Distinguished by an Eu³⁺ Spectroscopy Probe. Advanced Science, 2019, 6, 1802126.	5.6	20
27	New red phosphor (Y, Gd, Lu)BO3: Eu3+ for PDP applications. Journal of Rare Earths, 2009, 27, 312-315.	2.5	19
28	Structure and electrical properties of p-type twin ZnTe nanowires. Applied Physics A: Materials Science and Processing, 2011, 102, 469-475.	1.1	19
29	The site occupation and valence of Mn ions in the crystal lattice of Sr 4 Al 14 O 25 and its deep red emission for high color-rendering white light-emitting diodes. Materials Research Bulletin, 2014, 60, 604-611.	2.7	19
30	The energy transfer of Bi3+â†' Eu3+and Bi3+â†' Tb3+in YBO3host to produce light. Journal Physics D: Applied Physics, 2009, 42, 215104.	1.3	18
31	An intelligent approach to the discovery of luminescent materials using a combinatorial approach combined with Taguchi methodology. Luminescence, 2011, 26, 229-238.	1.5	18
32	Preparation, characterization and activity evaluation of heterojunction ZrTi2O6/TiO2 photocatalyst. Materials Chemistry and Physics, 2010, 124, 1057-1064.	2.0	17
33	The temperatureâ€sensitive luminescence of (Y,Gd)VO₄:Bi³⁺,Eu³⁺ and its application for stealth antiâ€counterfeiting. Physica Status Solidi - Rapid Research Letters, 2012, 6, 321-323.	1.2	16
34	Suppressing the phase transformation and enhancing the orange luminescence of (Sr,Ba)3SiO5:Eu2+ for application in white LEDs. Materials Letters, 2013, 106, 428-431.	1.3	16
35	The red luminescence of Sr4 Al14 O25 :Mn4+ enhanced by coupling with the SrAl2 O4 phase in the 3SrOâ€‰Â·â€‰5Al2 O3 system. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1791-1798.	0.8	16
36	Energy Transfer in (Y[sub 0.65],Gd[sub 0.35])BO[sub 3]:Bi[sub 0.01][sup 3+],Eu[sub 0.04][sup 3+] under VUV Excitation. Journal of the Electrochemical Society, 2007, 154, J345.	1.3	14

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37	Optimization of Pr3+, Tb3+, and Sm3+ Co-Doped (Y0.65Gd0.35)BO3:Eu0.053+ VUV Phosphors through Combinatorial Approach. ACS Combinatorial Science, 2008, 10, 401-404.	3.3	14
38	Synthesis and nano-field-effect transistors of p-type Zn0.3Cd0.7Te nanoribbons. Materials Letters, 2011, 65, 1753-1755.	1.3	14
39	Synthesis and luminescence properties of Sr3â€“z(AlxSi1x)O5â€“xFx:zCe3+ phosphors. Journal of Rare Earths, 2013, 31, 665-668.	2.5	14
40	Luminescence and energy transfer in the Sb3+ and Gd3+ activated YBO3 phosphor. Journal of Luminescence, 2013, 143, 670-673.	1.5	13
41	The energy transfer in the Sb3+ and Eu3+ co-activated YBO3 phosphor and their white luminescence for deep ultraviolet LEDs application. Journal of Luminescence, 2014, 149, 144-149.	1.5	13
42	Synthesis and photoluminescence of the blue phosphor Sr3MgSi2O8:Eu2+ optimized with the Taguchi method for application in near ultraviolet excitable white light-emitting diodes. Journal of Luminescence, 2016, 169, 733-738.	1.5	13
43	Site occupancy and photoluminescence tuning of La₃Si_{6â^'x}Al_xN_{11â^'x/3}:Ce³⁺phosphors for high power white light-emitting diodes. CrystEngComm, 2017, 19, 2836-2843.	1.3	13
44	Formation of the amorphous phase in the carbothermal reduction and nitridation route to SrSi₂O₂N₂â€‰:â€‰Eu²⁺: a new understanding of the catalytic effect of carbon in the synthesis of Sr₂Si₅N₈â€‰:â€‰Eu²⁺ for white LEDs. RSC Advances, 2014, 4, 44317-44321.	1.7	11
45	Nonvolatile modulation of electronic structure and correlative magnetism of L10-FePt films using significant strain induced by shape memory substrates. Scientific Reports, 2016, 6, 20199.	1.6	11
46	A third route to synthesis of green phosphor SrSi2O2N2: Eu2+ from SrO. Journal of Luminescence, 2021, 230, 117729.	1.5	11
47	Dataset of emission and excitation spectra, UVâ€“vis absorption spectra, and XPS spectra of graphitic C3N4. Data in Brief, 2018, 21, 501-510.	0.5	10
48	The competitive mechanisms of nano-SiO2 and reaction temperature on phase transformation and Eu2+ site occupation in Sr2SiO4:Eu2+ phosphor. Journal of Alloys and Compounds, 2017, 728, 231-240.	2.8	9
49	Controlling the anomalous Hall effect by electric-field-induced piezo-strain in Fe40Pt60/(001)-Pb(Mg1/3Nb2/3)0.67Ti0.33O3 multiferroic heterostructures. Applied Physics Letters, 2018, 112, .	1.5	7
50	Co-Vacancy, Co_{1â^'x}S@C flower-like nanosheets derived from MOFs for high current density cycle performance and stable sodium-ion storage. New Journal of Chemistry, 2021, 45, 6865-6871.	1.4	7
51	High Color-Rendering-Index Hybrid White LEDs Employing CdSe/ZnS Core/Shell Quantum Dots. Journal of Nanoscience and Nanotechnology, 2016, 16, 670-676.	0.9	6
52	Thermoelectric properties of rapid hot pressed polycrystalline Ag_{1â^'x}Pb₁₈SbTe₂₀ synthesized from doping PbTe nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 163-169.	0.8	5
53	Synthesis and X-ray responsivity of Zn0.75Cd0.25Te nanoribbons. Micro and Nano Letters, 2011, 6, 624.	0.6	4
54	Controlled nucleation and crystal growth through nano SiO2 for enhancing the orange luminescence of (Sr,Ba)3SiO5: Eu2+ in white LEDs application. Ceramics International, 2013, 39, 8565-8570.	2.3	4

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55	Converting electrical conductivity types in surface atomic-ligand exchanged PbS quantum dots via gate voltage tuning. Journal of Alloys and Compounds, 2017, 699, 866-873.	2.8	2
56	A NEW RED PHOSPHOR OF THE Mn ACTIVATED NON-STOICHIOMETRIC STRONTIUM ALUMINATE 3SrOâ€¢5Al2O3 FOR HIGH COLOR RENDERING WHITE LEDS. Functional Materials Letters, 2013, 06, 1350028.	0.7	1
57	Controllable site occupation of Eu in intricate superstructure of perovskite Sr₃Al₂O₆: Eu, Dy, Li to produce red luminescence. Functional Materials Letters, 2018, 11, 1850012.	0.7	1
58	Applications of combinatorial approach to the investigation of optical functional materials. Science Bulletin, 2009, 54, 1836-1844.	4.3	0
59	Narrow-Bandgap Semiconductors of Perovskite Rare-Earth Orthoferrites (REFeO3). Current Chinese Science, 2021, 1, 438-452.	0.2	0