

Shi Ye

List of Publications by Year in descending order

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108
papers

6,371
citations

76326

40
h-index

66911

78
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109
all docs

109
docs citations

109
times ranked

4612
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphors in phosphor-converted white light-emitting diodes: Recent advances in materials, techniques and properties. <i>Materials Science and Engineering Reports</i> , 2010, 71, 1-34.	31.8	1,895
2	Highly Efficient and Thermally Stable $K_3AlF_6:Mn^{4+}$ as a Red Phosphor for Ultra-High-Performance Warm White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8805-8812.	8.0	245
3	Facile Two-Step Synthesis of All-Inorganic Perovskite $CsPbX_3$ (X = Cl, Br, and I) Zeolite-Y Composite Phosphors for Potential Backlight Display Application. <i>Advanced Functional Materials</i> , 2017, 27, 1704371.	14.9	223
4	Highly Efficient and Stable Narrow-Band Red Phosphor $Cs_2SiF_6:Mn^{4+}$ for High-Power Warm White LED Applications. <i>ACS Photonics</i> , 2017, 4, 2556-2565.	6.6	177
5	Heavy Mn^{2+} Doped $MgAl_2O_4$ Phosphor for High-Efficient Near-Infrared Light-Emitting Diode and the Night-Vision Application. <i>Advanced Optical Materials</i> , 2019, 7, 1901105.	7.3	167
6	The design and preparation of the thermally stable, Mn^{4+} ion activated, narrow band, red emitting fluoride $Na_3GaF_6:Mn^{4+}$ for warm WLED applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2910-2918.	5.5	138
7	Room-temperature synthesis and warm-white LED applications of Mn^{4+} ion doped fluoroaluminate red phosphor $Na_3AlF_6:Mn^{4+}$. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2480-2487.	5.5	129
8	Photoluminescence and Raman Spectra of Double-Perovskite $Sr_2Ca(Mo/W)O_6$ with A- and B-Site Substitutions of Eu^{3+} . <i>Journal of the Electrochemical Society</i> , 2008, 155, J148.	2.9	108
9	Confining Mn^{2+} -Doped Lead Halide Perovskite in Zeolite-Y as Ultrastable Orange-Red Phosphor Composites for White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24656-24664.	8.0	107
10	Photoluminescence and energy transfer of phosphor series $Ba_{2-z}Sr_zCaMo_{1-y}W_yO_6:Eu,Li$ for white light UVLED applications. <i>Applied Physics B: Lasers and Optics</i> , 2008, 91, 551-557.	2.2	98
11	Spectral conversion for solar cell efficiency enhancement using $YVO_4:Bi^{3+},Ln^{3+}$ ($Ln = Dy, Er, Ho, Eu, Sm$). <i>J. Electrochem. Soc.</i> 2015, 162, 10.7843	2.5	96
12	Tailored Near-Infrared Photoemission in Fluoride Perovskites through Activator Aggregation and Super-Exchange between Divalent Manganese Ions. <i>Advanced Science</i> , 2015, 2, 1500089.	11.2	86
13	Thermal quenching and energy transfer in novel Bi^{3+}/Mn^{2+} -co-doped white-emitting borosilicate glasses for UV LEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2506-2512.	5.5	83
14	Anomalous NIR Luminescence in Mn^{2+} -Doped Fluoride Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2014, 2, 670-678.	7.3	80
15	Insights into the energy transfer mechanism in $YAG:Ce^{3+}$ phosphors. <i>Physical Review B</i> , 2014, 90, .	7.9	79
16	Luminescent properties of $Sr_2P_2O_7:Eu,Mn$ phosphor under near UV excitation. <i>Materials Research Bulletin</i> , 2008, 43, 1057-1065.	5.2	78
17	Synthesis and warm-white LED applications of an efficient narrow-band red emitting phosphor, $Rb_2ZrF_6:Mn^{4+}$. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7253-7261.	5.5	77
18	Temperature-tunable upconversion luminescence of perovskite nanocrystals $KZnF_3:Yb^{3+},Mn^{2+}$. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4209.	5.5	73

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19	Stable narrowband red phosphor $K_3GaF_6:Mn^{4+}$ derived from hydrous $K_2GaF_5(H_2O)$ and K_2MnF_6 . Journal of Materials Chemistry C, 2017, 5, 9588-9596.	5.5	70
20	Mn^{2+} -activated dual-wavelength emitting materials toward wearable optical fibre temperature sensor. Nature Communications, 2022, 13, 2166.	12.8	70
21	Emission properties of Eu^{2+} , Mn^{2+} in $MA_2Si_2O_8$ (M=Sr, Ba). Journal of Luminescence, 2009, 129, 50-54.	3.1	60
22	Transition Metal-Involved Photon Upconversion. Advanced Science, 2016, 3, 1600302.	11.2	60
23	Efficient first-order resonant near-infrared quantum cutting in $\hat{I}^2-NaYF_4:Ho^{3+},Yb^{3+}$. Journal of Alloys and Compounds, 2011, 509, 9919-9923.	5.5	58
24	Single-band red upconversion luminescence of $Yb^{3+}Er^{3+}$ via nonequivalent substitution in perovskite $KMgF_3$ nanocrystals. Journal of Materials Chemistry C, 2016, 4, 1675-1684.	5.5	58
25	Energy Transfer among Ce^{3+} , Eu^{2+} , and Mn^{2+} in $CaSiO_3$. Journal of the Electrochemical Society, 2008, 155, J143.	2.9	56
26	Structural design enables highly-efficient green emission with preferable blue light excitation from zero-dimensional manganese (II) hybrids. Chemical Engineering Journal, 2021, 421, 129886.	12.7	56
27	Room-Temperature Wavelength-Tunable Single-Band Upconversion Luminescence from Yb^{3+}/Mn^{2+} Codoped Fluoride Perovskites ABF_3 . Advanced Optical Materials, 2016, 4, 798-806.	7.3	55
28	Anomalous spontaneous-reduction of Mn^{7+}/Mn^{4+} to Mn^{2+} and luminescence properties in $Zn_2GeO_4:Mn$. Journal of Materials Chemistry C, 2017, 5, 3343-3351.	5.5	55
29	$ZnWO_4:Eu^{3+}$ nanorods: A potential tunable white light-emitting phosphors. Journal of Alloys and Compounds, 2011, 509, 1355-1359.	5.5	53
30	Room-temperature upconverted white light from $GdMgB_5O_{10}:Yb^{3+}, Mn^{2+}$. Journal of Materials Chemistry, 2011, 21, 3735.	6.7	51
31	$Mn^{2+}Er^{3+}$ Magnetic Coupling Effect on Photoluminescence Revealed by Photomagnetism in $CsMnCl_3$. Journal of Physical Chemistry Letters, 2020, 11, 9587-9595.	4.6	49
32	The luminescence properties of Bi^{3+} sensitized $Gd_2MoO_6:RE^{3+}$ (RE = Eu or Sm) phosphors for solar spectral conversion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 115, 767-771.	3.9	48
33	Stable narrowband red emission in fluorotellurate $KTeF_5:Mn^{4+}$ via Mn^{4+} noncentral-site occupation. Journal of Materials Chemistry C, 2018, 6, 4418-4426.	5.5	47
34	$Gd_3B(W,Mo)O_9:Eu^{3+}$ red phosphor: From structure design to photoluminescence behavior and near-UV white-LEDs performance. Journal of Alloys and Compounds, 2014, 610, 402-408.	5.5	44
35	Enhanced tunable color emission in transparent Ag/Mn^{2+} codoped zinc borate glasses for broad band light source. Journal of Materials Chemistry C, 2015, 3, 5183-5191.	5.5	44
36	Efficient near-infrared downconversion in $GdVO_4:Dy^{3+}$ phosphors for enhancing the photo-response of solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1590-1593.	6.2	43

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37	Ultra-broadband near-infrared luminescence of ordered/disordered multi-sited Cr ³⁺ in La ₃ Ga ₅ Nb _{0.5} O ₁₄ :Cr ³⁺ . Journal of Materials Chemistry C, 2014, 2, 4636.	5.5	43
38	Synthesis and optical properties of chromium-doped spinel hollow nanofibers by single-nozzle electrospinning. RSC Advances, 2012, 2, 2773.	3.6	42
39	Broadband Cr ³⁺ -sensitized upconversion luminescence in La ₃ Ga ₅ GeO ₁₄ : Cr ³⁺ , Yb ³⁺ , Er ³⁺ . Optical Materials Express, 2014, 4, 638.	3.0	41
40	Wavelength-tunability and Multiband Emission from Single-site Mn ²⁺ Doped CaO Through Antiferromagnetic Coupling and Tailored Superexchange Reactions. Advanced Optical Materials, 2017, 5, 1700070.	7.3	40
41	An efficient and stable narrow band Mn ⁴⁺ -activated fluorotitanate red phosphor Rb ₂ TiF ₆ :Mn ⁴⁺ for warm white LED applications. Journal of Materials Chemistry C, 2018, 6, 8670-8678.	5.5	40
42	Anomalous tunable visible to near infrared emission in the Mn ²⁺ -doped spinel MgGa ₂ O ₄ and room-temperature upconversion in the Mn ²⁺ and Yb ³⁺ -codoped spinel. Journal of Materials Chemistry C, 2014, 2, 8811-8816.	5.5	39
43	Multifunctionalities of near-infrared upconversion luminescence, optical temperature sensing and long persistent luminescence in La ₃ Ga ₅ GeO ₁₄ :Cr ³⁺ , Yb ³⁺ , Er ³⁺ and their potential coupling. RSC Advances, 2015, 5, 49680-49687.	3.6	39
44	Stabilizing CsPbBr ₃ quantum dots with conjugated aromatic ligands and their regulated optical behaviors. Chemical Engineering Journal, 2020, 389, 124453.	12.7	39
45	Site-related near-infrared luminescence in MA12O19 (M=Ca, Sr, Ba):Fe ³⁺ phosphors. Materials Research Bulletin, 2014, 51, 1-5.	5.2	37
46	Structural Origin of Enhanced Circularly Polarized Luminescence in Hybrid Manganese Bromides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	37
47	Three-photon near-infrared quantum splitting in NaYF ₄ :Ho ³⁺ . Applied Physics Letters, 2011, 99, .	3.3	36
48	High quality LED lamps using color-tunable Ce ³⁺ -activated yellow-green oxyfluoride solid-solution and Eu ³⁺ -doped red borate phosphors. Journal of Materials Chemistry C, 2015, 3, 8132-8141.	5.5	36
49	Mesoporous nanoparticles Gd ₂ O ₃ @mSiO ₂ /ZnGa ₂ O ₄ :Cr ³⁺ , Bi ³⁺ as multifunctional probes for bioimaging. Journal of Materials Chemistry B, 2016, 4, 1842-1852.		
50	Tunable white upconversion luminescence from Yb ³⁺ -Tm ³⁺ -Mn ²⁺ tri-doped perovskite nanocrystals. Optical Materials Express, 2014, 4, 1186.	3.0	33
51	Bidirectional energy transfer induced single-band red upconversion emission of Ho ³⁺ in KZnF ₃ :Mn ²⁺ , Yb ³⁺ , Ho ³⁺ nanocrystals. Journal of Alloys and Compounds, 2016, 667, 134-140.	5.5	32
52	Long Wavelength Extension of the Excitation Band of LiEuMo ₂ O ₈ Phosphor with Bi ³⁺ Doping. Journal of the Electrochemical Society, 2009, 156, J121.	2.9	31
53	Influence of oxygen vacancy on persistent luminescence in ZnGa ₂ O ₄ :Cr ³⁺ and identification of electron carriers. Optical Materials Express, 2017, 7, 734.	3.0	29
54	Non-stoichiometric defect-controlled reduction toward mixed-valence Mn-doped hexaaluminates and their optical applications. Journal of Materials Chemistry C, 2019, 7, 5716-5723.	5.5	29

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55	A promising yellow phosphor of Ce ³⁺ /Li ⁺ doped CaSiN ₂ ·2 $\frac{1}{3}$ O for pc-LEDs. Dalton Transactions, 2013, 42, 5167.	3.3	28
56	Temperature-dependent near-infrared emission of highly concentrated Cu ²⁺ in CaCuSi ₄ O ₁₀ phosphor. Journal of Materials Chemistry C, 2014, 2, 10395-10402.	5.5	28
57	Sequential three-step three-photon near-infrared quantum splitting in \hat{I}^2 -NaYF ₄ :Tm ³⁺ . Applied Physics Letters, 2012, 100, 191911.	3.3	27
58	Structural effects on Stokes and anti-Stokes luminescence of double-perovskite (Ba,Sr) ₂ CaMoO ₆ :Yb ³⁺ ,Eu ³⁺ . Journal of Applied Physics, 2011, 110, 013517.	2.5	26
59	Efficient near-infrared quantum splitting in YVO ₄ :Ho ³⁺ for photovoltaics. Solar Energy Materials and Solar Cells, 2012, 101, 303-307.	6.2	26
60	Defect Enrichment in Near Inverse Spinel Configuration to Enhance the Persistent Luminescence of Fe ³⁺ . Advanced Optical Materials, 2022, 10, 2101669.	7.3	26
61	Unraveling the distinct luminescence thermal quenching behaviours of A/B-site Eu ³⁺ ions in double perovskite Sr ₂ CaMoO ₆ :Eu ³⁺ . Optical Materials, 2018, 75, 337-346.	3.6	24
62	Shining Mn ⁴⁺ in OD Organometallic Fluoride Hosts towards Highly Efficient Photoluminescence. Advanced Optical Materials, 2022, 10, .	7.3	24
63	Long-lived Photon Upconversion Phosphorescence in RbCaF ₃ :Mn ²⁺ ,Yb ³⁺ and the Dynamic Color Separation Effect. IScience, 2019, 19, 597-606.	4.1	23
64	Facile <i>in situ</i> synthesis of zeolite-encapsulating Cs ₂ SiF ₆ :Mn ⁴⁺ for application in WLEDs. Journal of Materials Chemistry C, 2019, 7, 1345-1352.	5.5	23
65	Regulation of red to near-infrared emission in Mn ²⁺ single doped magnesium zinc phosphate solid-solution phosphors by modification of the crystal field. Journal of Materials Chemistry C, 2015, 3, 12443-12449.	5.5	22
66	Tailoring the upconversion of ABF ₃ :Yb ³⁺ /Er ³⁺ through Mn ²⁺ doping. Journal of Materials Chemistry C, 2016, 4, 9598-9607.	5.5	22
67	Probing oxide-ion conduction in low-temperature SOFCs. Nano Energy, 2018, 50, 88-96.	16.0	22
68	Enhanced three-photon near-infrared quantum splitting in \hat{I}^2 -NaYF ₄ :Ho ³⁺ by codoping Yb ³⁺ . AIP Advances, 2012, 2, .	1.3	21
69	The impact of local structure variation on thermal quenching of luminescence in Ca ₃ Mo _W O ₆ :Eu ³⁺ solid solution phosphors. Journal of Applied Physics, 2017, 121, .	2.5	21
70	Dipole-Orientation-Dependent Förster Resonance Energy Transfer from Aromatic Head Groups to MnBr ₄ ²⁻ Blocks in Organic-Inorganic Hybrids. Journal of Physical Chemistry Letters, 2021, 12, 8692-8698.	4.6	21
71	Morphology of Gd ³⁺ -doped Y ₂ SiO ₅ :Ce. Journal of Luminescence, 2007, 122-123, 113-116.	3.1	20
72	Abnormal broadband photoluminescence from Yb ³⁺ /Mn ²⁺ codoped barium octaborate. Journal of Alloys and Compounds, 2014, 587, 177-182.	5.5	20

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73	A stimuli responsive material of perovskite quantum dots composited nano-porous glass. Journal of Materials Chemistry C, 2018, 6, 11184-11192.	5.5	20
74	Constructing perovskite-like oxide CsCa ₂ Ta ₃ O ₁₀ : Yb, Er@Cs(Pb _x Mn _{1-x})(Cl _y Br _{1-y}) ₃ perovskite halide composites for five-dimensional anti-counterfeiting barcodes applications. Chemical Engineering Journal, 2021, 409, 128165.	12.7	20
75	Anomalous upconversion emission of Eu ³⁺ –Yb ³⁺ –MoO ₆ in double perovskites induced by a laser. Journal of Materials Chemistry C, 2013, 1, 1588.	5.5	19
76	A sequential two-step near-infrared quantum splitting in Ho ³⁺ singly doped NaYF ₄ . AIP Advances, 2011, 1, .	1.3	18
77	Influence of thermal treatments on the low frequency conductivity and microwave dielectric loss of CaTiO ₃ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 401-405.	3.5	17
78	Selectively enhanced up- and down-conversion emissions of Er ³⁺ via Yb ³⁺ –Mn ²⁺ dimer sensitizing in spinel MgGa ₂ O ₄ :Er ³⁺ ,Yb ³⁺ ,Mn ²⁺ . Materials Research Bulletin, 2016, 74, 340-345.	5.2	17
79	Ultrabroadband sensitization of near infrared emission through energy transfer from Pb to Yb ions in LiYbMo ₂ O ₈ :Pb. Journal of Applied Physics, 2010, 108, 083528.	2.5	16
80	Broadband three-photon near-infrared quantum cutting in Tm ³⁺ singly doped YVO ₄ . Journal of Applied Physics, 2013, 114, .	2.5	16
81	Detection of oxide-ion and oxygen vacancy swapping via upconversion luminescence in La ₂ Mo ₂ O ₉ :Yb ³⁺ ,Er ³⁺ . Journal of Materials Chemistry C, 2016, 4, 7286-7293.	5.5	15
82	Variations in the ⁵ D ₀ → ⁷ F ₀ transitions of Eu ³⁺ and white light emissions in Ag–Eu exchanged zeolite-Y. RSC Advances, 2016, 6, 95925-95935.	3.6	14
83	Heavy Mn ²⁺ -doped near-infrared photon upconversion luminescence in fluoride RbZnF ₃ :Yb ³⁺ ,Mn ²⁺ guided by dopant distribution simulation. Journal of Materials Chemistry C, 2020, 8, 12164-12172.	5.5	14
84	The Effect of Zinc Acetate Dihydrate on Morphology and Luminescence Properties of CaSi ₂ O ₂ N ₂ :Eu ²⁺ Phosphor. Journal of the American Ceramic Society, 2013, 96, 2238-2244.	3.8	13
85	Probing the Dielectric Effects on the Colloidal 2D Perovskite Oxides by Eu ³⁺ Luminescence. ACS Applied Materials & Interfaces, 2020, 12, 44961-44969.	8.0	13
86	Tailored upconversion emission of Eu ³⁺ in Sr ₂ Ca(W,Mo)O ₆ :Yb ³⁺ ,Eu ³⁺ by a laser via an electronic polarization mechanism. Journal of Materials Chemistry C, 2015, 3, 4997-5003.	5.5	12
87	Energy Transfer Dynamics and Quantum Yield Derivation of the Tm ³⁺ Concentration-Dependent, Three-Photon Near-Infrared Quantum Cutting in La ₂ BaZnO ₅ . Journal of Physical Chemistry C, 2015, 119, 26643-26651.	3.1	12
88	Understanding the Energy Barriers of the Reversible Ion Exchange Process in CsPbBr _{1.5} Cl _{1.5} @Y ₂ O ₃ :Eu ³⁺ Macroporous Composites and Their Application in Anti-Counterfeiting Codes. ACS Applied Materials & Interfaces, 2021, 13, 60362-60372.	8.0	12
89	Characterization and Luminescence Properties of Y ₂ Si ₃ O ₃ N ₄ :Ce ³⁺ Phosphor for White Light-Emitting-Diode. Journal of the Electrochemical Society, 2012, 159, H358-H362.	2.9	11
90	Interaction between the exchanged Mn ²⁺ and Yb ³⁺ ions confined in zeolite-Y and their luminescence behaviours. Scientific Reports, 2017, 7, 46219.	3.3	10

