

Fengwen Kang

List of Publications by Year in descending order

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51
papers

2,895
citations

147566

31
h-index

189595

50
g-index

52
all docs

52
docs citations

52
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Band-Gap Modulation in Single Bi ³⁺ -Doped Yttrium-Scandium-Niobium Vanadates for Color Tuning over the Whole Visible Spectrum. <i>Chemistry of Materials</i> , 2016, 28, 2692-2703.	3.2	246
2	Controlling the Energy Transfer via Multi Luminescent Centers to Achieve White Light/Tunable Emissions in a Single-Phased X ₂ -Type Y ₂ SiO ₅ :Eu ³⁺ ,Bi ³⁺ Phosphor For Ultraviolet Converted LEDs. <i>Inorganic Chemistry</i> , 2015, 54, 1462-1473.	1.9	241
3	Red Photoluminescence from Bi ³⁺ and the Influence of the Oxygen-Vacancy Perturbation in ScVO ₄ : A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7515-7522.	1.5	164
4	Broadly tuning Bi ³⁺ emission via crystal field modulation in solid solution compounds (Y,Lu,Sc)VO ₄ :Bi for ultraviolet converted white LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6068-6076.	2.7	164
5	Abnormal Anti-Quenching and Controllable Multi-Transitions of Bi ³⁺ Luminescence by Temperature in a Yellow-Emitting LuVO ₄ :Bi ³⁺ Phosphor for UV-Converted White LEDs. <i>Chemistry - A European Journal</i> , 2014, 20, 11522-11530.	1.7	151
6	Toward Bi ³⁺ Red Luminescence with No Visible Reabsorption through Manageable Energy Interaction and Crystal Defect Modulation in Single Bi ³⁺ -Doped ZnWO ₄ Crystal. <i>Chemistry of Materials</i> , 2017, 29, 8412-8424.	3.2	148
7	Plasmonic Dual-Enhancement and Precise Color Tuning of Gold Nanorod@SiO ₂ Coupled Core-Shell Upconversion Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1701842.	7.8	121
8	Recoverable and Unrecoverable Bi ³⁺ -Related Photoemissions Induced by Thermal Expansion and Contraction in LuVO ₄ :Bi ³⁺ and ScVO ₄ :Bi ³⁺ Compounds. <i>Chemistry of Materials</i> , 2016, 28, 7807-7815.	3.2	114
9	A new study on the energy transfer in the color-tunable phosphor CaWO ₄ :Bi. <i>Dalton Transactions</i> , 2014, 43, 277-284.	1.6	90
10	Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications. <i>Chemical Engineering Journal</i> , 2021, 403, 126099.	6.6	84
11	Emission color tuning through manipulating the energy transfer from VO ₄ ³⁻ to Eu ³⁺ in single-phased LuVO ₄ :Eu ³⁺ phosphors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 390-398.	2.7	83
12	Luminescent properties of Eu ³⁺ in MWO ₄ (M=Ca, Sr, Ba) matrix. <i>Journal of Luminescence</i> , 2013, 135, 113-119.	1.5	79
13	Broadly Tunable Emission from CaMoO ₄ :Bi Phosphor Based on Locally Modifying the Microenvironment Around Bi ³⁺ Ions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1373-1380.	1.0	73
14	Luminescence properties of Y ₂ O ₃ :Bi ³⁺ , Ln ³⁺ (Ln=Sm, Eu, Dy, Er, Ho) and the sensitization of Ln ³⁺ by Bi ³⁺ . <i>Journal of Luminescence</i> , 2012, 132, 1853-1859.	1.5	72
15	Rare earth-free composites of carbon dots/metal-organic frameworks as white light emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2207-2211.	2.7	68
16	Luminescence and red long afterglow investigation of Eu ³⁺ :Sm ³⁺ CO-doped CaWO ₄ phosphor. <i>Journal of Luminescence</i> , 2012, 132, 887-894.	1.5	66
17	A red-emitting heavy doped phosphor Li ₆ Y(BO ₃) ₃ :Eu ³⁺ for white light-emitting diodes. <i>Optical Materials</i> , 2011, 33, 1297-1301.	1.7	61
18	Broadband NIR luminescence from a new bismuth doped Ba ₂ B ₅ O ₉ Cl crystal: evidence for the Bi ⁰ model. <i>Optics Express</i> , 2012, 20, 22569.	1.7	60

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19	Processing-dependence and the nature of the blue-shift of Bi ³⁺ -related photoemission in ScVO ₄ at elevated temperatures. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9850-9857.	2.7	53
20	Broad color tuning and Eu ³⁺ -related photoemission enhancement <i>via</i> controllable energy transfer in the La ₂ MgGeO ₆ :Eu ³⁺ , Bi ³⁺ phosphor. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1076-1084.	3.0	53
21	A reddish orange-emitting stoichiometric phosphor K ₃ Eu(PO ₄) ₂ for white light-emitting diodes. <i>Optics and Laser Technology</i> , 2012, 44, 39-42.	2.2	48
22	Tuning the Bi ³⁺ -photoemission color over the entire visible region by manipulating secondary cations modulation in the ScV _x P _{1-x} O ₄ :Bi ³⁺ (0 ≤ x ≤ 1) solid solution. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9865-9877.	2.7	48
23	Multicolor Tuning and Temperature-Triggered Anomalous Eu ³⁺ -Related Photoemission Enhancement via Interplay of Accelerated Energy Transfer and Release of Defect-Trapped Electrons in the Tb ³⁺ , Eu ³⁺ -Doped Strontium-Aluminum Chlorites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36157-36170.	4.0	47
24	White-Light Generation and Energy Transfer in Y ₂ O ₃ :Bi, Eu Phosphor for Ultraviolet Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011, 158, J294.	1.3	45
25	Luminescence and energy transfer of Mn ²⁺ and Tb ³⁺ in Y ₃ Al ₅ O ₁₂ phosphors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6476-6480.	2.8	40
26	Luminescence investigation of Eu ³⁺ -Bi ³⁺ co-doped CaMoO ₄ phosphor. <i>Journal of Rare Earths</i> , 2011, 29, 837-842.	2.5	40
27	Sol-gel synthesis of Eu ³⁺ incorporated CaMoO ₄ : the enhanced luminescence performance. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 227-233.	1.1	40
28	Facile Synthesis of Nitrogen-Rich Carbon Dots as Fertilizers for Mung Bean Sprouts. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800132.	2.7	40
29	Iron oxides with gadolinium-doped cerium oxides as active supports for chemical looping hydrogen production. <i>Chemical Engineering Journal</i> , 2020, 396, 125153.	6.6	33
30	Investigation on Eu ³⁺ doped Sr ₂ MgSi ₂ O ₇ red-emitting phosphors for white-light-emitting diodes. <i>Optics and Laser Technology</i> , 2011, 43, 1104-1110.	2.2	32
31	The structure and luminescence properties of long afterglow phosphor Y _{3-x} Mn _x Al _{5-x} Si ₆ O ₁₂ . <i>Journal of Luminescence</i> , 2011, 131, 676-681.	1.5	32
32	Observation on long afterglow of Tb ³⁺ in CaWO ₄ . <i>Materials Research Bulletin</i> , 2011, 46, 2489-2493.	2.7	30
33	The structure and luminescence properties of a novel orange emitting phosphor Y ₃ Mn _x Al _{5-2x} Si ₆ O ₁₂ . <i>Physica B: Condensed Matter</i> , 2011, 406, 864-868.	1.3	29
34	Luminescent properties of Na ₃ Gd _{1-x} Eu _x (PO ₄) ₂ and energy transfer in these phosphors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5655-5659.	2.8	26
35	Luminescent Properties of Praseodymium in CaWO ₄ Matrix. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3214-3219.	1.9	23
36	The luminescence of bismuth and europium in Ca ₄ YO(BO ₃) ₃ . <i>Journal of Luminescence</i> , 2012, 132, 717-721.	1.5	18

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37	Toward temperature-dependent Bi ³⁺ -related tunable emission in the YVO ₄ :Bi ³⁺ phosphor. Journal of the American Ceramic Society, 2019, 102, 3488-3497.	1.9	18
38	Red Afterglow Properties of Eu ³⁺ in CaMoO ₄ Phosphor. Chinese Physics Letters, 2011, 28, 107201.	1.3	16
39	The role of oxygen defects in a bismuth doped ScVO ₄ matrix: tuning luminescence by hydrogen treatment. Journal of Materials Chemistry C, 2017, 5, 314-321.	2.7	15
40	Influence of Zn ²⁺ and Si ⁴⁺ codoping on luminescence properties of CaWO ₄ :Eu ³⁺ phosphor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 477-482.	1.7	12
41	Color selection and red fluorescence enhancement through the controllable energy transfer in Na _x Ca _{1-2x} WO ₄ :Eu ³⁺ phosphor for UV converted LEDs. Materials Chemistry and Physics, 2018, 207, 396-401.	2.0	12
42	Simultaneous enhancement of photoluminescence and afterglow luminescence through Bi ³⁺ co-doping in the Sr ₃ Al ₂ O ₅ Cl ₂ :Eu ²⁺ phosphor. Physical Chemistry Chemical Physics, 2018, 20, 13983-13993.	1.3	12
43	Self-templated formation of twin-like metal-organic framework nanobricks as pre-catalysts for efficient water oxidation. Nano Research, 2022, 15, 2887-2894.	5.8	12
44	Enhancement on afterglow properties of Eu ³⁺ by Ti ⁴⁺ , Mg ²⁺ incorporation in CaWO ₄ matrix. Journal of Materials Research, 2012, 27, 959-964.	1.2	8
45	Enhancement of red fluorescence and afterglow in CaWO ₄ :Eu ³⁺ by addition of MoO ₃ . Displays, 2013, 34, 334-340.	2.0	8
46	Manipulating the alkali metal charge compensation and tungsten oxide to continuously enhance the red fluorescence in (Li,Na,K)Ca(Mo,W)O ₄ :Eu ³⁺ solid solution compounds. Solid State Sciences, 2018, 76, 92-99.	1.5	7
47	Tuning of Bi ³⁺ -related photoemission in the Sc ₂ O ₃ :Bi ³⁺ phosphor. Journal of Materials Science: Materials in Electronics, 2018, 29, 7015-7019.	1.1	3
48	Synthesis of Eu ²⁺ and Dy ³⁺ ; Codoped Ba ₂ MgSi ₂ O ₇ Phosphor for Energy Storage. Advanced Materials Research, 0, 236-238, 3028-3031.	0.3	2
49	Luminescence in external dopant-free scandium-phosphorus vanadate solid solution: a spectroscopic and theoretical investigation. Materials Advances, 2020, 1, 2467-2482.	2.6	2
50	Luminescence depreciation in ScVO ₄ :Bi ³⁺ upon irradiation in the Bi ³⁺ -related absorption bands. Journal of Luminescence, 2022, 248, 118941.	1.5	1
51	Synthesis and Luminescent Properties of Violet-Ultraviolet Long Afterglow Phosphors. Materials Science Forum, 2010, 663-665, 170-176.	0.3	0