

Bingyan Qu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ni ²⁺ -Doped Garnet Solid-Solution Phosphor-Converted Broadband Shortwave Infrared Light-Emitting Diodes toward Spectroscopy Application. ACS Applied Materials & Interfaces, 2022, 14, 4265-4275.	8.0	68
2	The predictability of the ground state of 3d transition metal ion as luminescent centers in the tetrahedral sites in inorganic compounds. Journal of Luminescence, 2022, 247, 118919.	3.1	1
3	The dependence of the boson peak on the thickness of Cu ₅₀ Zr ₅₀ film metallic glasses. Physical Chemistry Chemical Physics, 2021, 23, 982-989.	2.8	2
4	Highly efficient and stable broadband near-infrared-emitting lead-free metal halide double perovskites. Journal of Materials Chemistry C, 2021, 9, 13474-13483.	5.5	13
5	Migration and oxidation of vanadium atom and dimer supported on anatase TiO ₂ (100) surface. Applied Surface Science, 2021, 565, 150517.	6.1	3
6	Micro-alloying effects of Co on structural and dynamic properties of CeAlCu glass-forming melts by ab initio molecular dynamics simulations. Journal of Non-Crystalline Solids, 2021, 572, 121109.	3.1	2
7	Yellow persistent luminescence and electronic structure of Ca- $\hat{\Gamma}$ -Sialon: Eu ²⁺ . Journal of Alloys and Compounds, 2020, 821, 153482.	5.5	13
8	Aliovalent Doping and Surface Grafting Enable Efficient and Stable Lead-Free Blue-Emitting Perovskite Derivative. Advanced Optical Materials, 2020, 8, 2000779.	7.3	68
9	Defects levels and VUV/UV luminescence of Ce ³⁺ and Eu ³⁺ doped chlorapatite phosphors M ₅ (PO ₄) ₃ Cl (M = Ca, Sr, Ba). Optical Materials, 2020, 107, 110014.	3.6	1
10	Quantitative insights into the chemical trend of four-coordinated Mn ²⁺ emission in inorganic compounds. Journal of Luminescence, 2020, 225, 117399.	3.1	4
11	The role of co-dopants on the luminescent properties of $\hat{\Gamma}$ -Al ₂ O ₃ :Mn ⁴⁺ and BaMgAl ₁₀ O ₁₇ :Mn ⁴⁺ . Journal of the American Ceramic Society, 2019, 102, 2737-2744.	3.8	22
12	Green persistent luminescence and the electronic structure of $\hat{\Gamma}$ -Sialon:Eu ²⁺ . Journal of Materials Chemistry C, 2019, 7, 12544-12551.	5.5	38
13	Structural origin of the high glass-forming ability of Ce ₇₀ Ga ₁₀ Cu ₂₀ alloys. Physical Chemistry Chemical Physics, 2019, 21, 4209-4214.	2.8	3
14	Reaction mechanism between small-sized Ce clusters and water molecules: an ab initio investigation on Ce _n + H ₂ O. Physical Chemistry Chemical Physics, 2019, 21, 4006-4014.	2.8	8
15	How to predict the location of the defect levels induced by 3d transition metal ions at octahedral sites of aluminate phosphors. Journal of Materials Chemistry C, 2019, 7, 95-103.	5.5	16
16	Reaction mechanism between small-sized Ce clusters and water molecules II: an ab initio investigation on Ce _n (<i>n</i> = 1-3) + mH ₂ O (<i>m</i> = 2-6). Physical Chemistry Chemical Physics, 2019, 21, 8945-8955.	2.8	8
17	A comprehensive study of the red persistent luminescence mechanism of Y ₂ O ₂ S:Eu,Ti,Mg. Physical Chemistry Chemical Physics, 2019, 21, 25118-25125.	2.8	25
18	Anatase (101) Reconstructed Surface with Novel Functionalities: Desired Bandgap for Visible Light Absorption and High Chemical Reactivity. Advanced Functional Materials, 2018, 28, 1705529.	14.9	9

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19	Crossover of thermal expansion from positive to negative by removing the excess fluorines in cubic ReO_3 -type TiZrF_7 . <i>Journal of Materials Chemistry C</i> , 2018, 6, 5148-5152.	5.5	17
20	Atomic structure and dynamics properties of $\text{Cu}_{50}\text{Zr}_{50}$ films. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	7
21	Understanding the quenching nature of Mn^{4+} in wide band gap inorganic compounds: design principles for Mn^{4+} phosphors with higher efficiency. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16992-16999.	2.8	30
22	Mechanistic insights into tunable luminescence and persistent luminescence of the full-color-emitting BCNO phosphors. <i>Carbon</i> , 2017, 122, 176-184.	10.3	18
23	Structural evolution and atomic diffusion behavior in the $\text{Ce}_{70}\text{Al}_{10}\text{Cu}_{20}$ melt under compression: A theoretical study using <i>ab-initio</i> molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	3
24	New phases of 3d-transition metal-cerium binary compounds: an extensive structural search. <i>RSC Advances</i> , 2017, 7, 40486-40498.	3.6	10
25	Rutile TiO_2 (011)-2 Å ⁻¹ Reconstructed Surfaces with Optical Absorption over the Visible Light Spectrum. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27403-27410.	8.0	18
26	A first-principles study on the negative thermal expansion material: $\text{Mn}_3(\text{AO}_5)_\text{N}$ (A=Cu, Zn, Ag, or Tl). <i>Journal of Applied Physics</i> , 2016, 119, 135101.	1.3	2
27	Persistent Luminescence Hole-Type Materials by Design: Transition-Metal-Doped Carbon Allotrope and Carbides. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5439-5444.	8.0	14
28	The influence of liquid Pb-Bi on the anti-corrosion behavior of Fe_3O_4 : a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7789-7796.	2.8	13
29	Mechanistic study of pressure and temperature dependent structural changes in reactive formation of silicon carbonate. <i>RSC Advances</i> , 2016, 6, 26650-26657.	3.6	10
30	Mechanistic Study of the Persistent Luminescence of CaAl_2O_4 :Eu,Nd. <i>Chemistry of Materials</i> , 2015, 27, 2195-2202.	6.7	186
31	Unraveling Crystalline Structure of High-Pressure Phase of Silicon Carbonate. <i>Physical Review X</i> , 2014, 4, .	8.9	7
32	Luminescent properties of $\text{La}_2\text{LiTaO}_6$: Mn^{4+} and its application as red emission LEDs phosphor. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1777-1783.	2.3	45
33	Role of vacancies to p-type semiconducting properties of SiGe nanowires. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6536-6546.	5.5	5