

Kaushik Biswas

List of Publications by Year in descending order

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50
papers

1,101
citations

393982

19
h-index

433756

31
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all docs

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docs citations

51
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration-dependent luminescence of Tb ³⁺ ions in high calcium aluminosilicate glasses. <i>Journal of Luminescence</i> , 2009, 129, 1347-1355.	1.5	123
2	Luminescence Properties of Dual Valence Eu Doped Nano-crystalline BaF ₂ Embedded Glass-ceramics and Observation of Eu ²⁺ → Eu ³⁺ Energy Transfer. <i>Journal of Fluorescence</i> , 2012, 22, 745-752.	1.3	73
3	Concentration quenched luminescence and energy transfer analysis of Nd ³⁺ ion doped Ba-Al-metaphosphate laser glasses. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 235-244.	1.1	59
4	Enhanced Blue Emission from Transparent Oxyfluoride Glass-Ceramics Containing Pr ³⁺ :BaF ₂ Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1010-1017.	1.9	59
5	Influence of bismuth on structural, elastic and spectroscopic properties of Nd ³⁺ doped Zinc-Boro-Bismuthate glasses. <i>Journal of Luminescence</i> , 2014, 149, 163-169.	1.5	52
6	Sensitized red luminescence from Bi ³⁺ co-doped Eu ³⁺ : ZnO-B ₂ O ₃ glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 3525-3529.	1.3	48
7	Crystallization kinetics of amorphous Fe ₆₇ Co _{9.5} Nd ₃ Dy _{0.5} B ₂₀ . <i>Journal of Alloys and Compounds</i> , 2005, 397, 104-109.	2.8	44
8	Enhanced 2¼m broad-band emission and NIR to visible frequency up-conversion from Ho ³⁺ /Yb ³⁺ co-doped Bi ₂ O ₃ -GeO ₂ -ZnO glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 112, 301-308.	2.0	40
9	Effect of boron oxide addition on structural, thermal, in vitro bioactivity and antibacterial properties of bioactive glasses in the base S53P4 composition. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 204-215.	1.5	40
10	Broadband Er ³⁺ emission in highly nonlinear Bismuth modified Zinc-Borate glasses. <i>Optical Materials Express</i> , 2011, 1, 344.	1.6	37
11	Efficient non-resonant energy transfer in Nd ³⁺ -Yb ³⁺ codoped Ba-Al-metaphosphate glasses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2750.	0.9	35
12	Effect of melt convection on the secondary dendritic arm spacing in peritectic Nd-Fe-B alloy. <i>Journal of Alloys and Compounds</i> , 2009, 480, 295-298.	2.8	26
13	Synthesis and Structural Probing of Eu ³⁺ Doped BaYF ₅ Nano-Crystals in Transparent Oxyfluoride Glass-Ceramics. <i>International Journal of Applied Glass Science</i> , 2012, 3, 154-162.	1.0	26
14	Crystallization kinetics analysis of BaF ₂ and BaGdF ₅ nanocrystals precipitated from oxyfluoride glass systems: A comparative study. <i>Thermochimica Acta</i> , 2015, 610, 1-9.	1.2	25
15	Preparation of alumino-phosphate glass by microwave radiation. <i>Journal of Materials Research</i> , 2013, 28, 1955-1961.	1.2	24
16	Near-infrared frequency down-conversion and cross-relaxation in Eu ²⁺ /Eu ³⁺ -Yb ³⁺ doped transparent oxyfluoride glass and glass-ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 608, 266-271.	2.8	24
17	Enhanced 1.8¼m emission in Yb ³⁺ /Tm ³⁺ co-doped tellurite glass: Effects of Yb ³⁺ → Tm ³⁺ energy transfer and back transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 147, 112-120.	1.1	22
18	Role of Yb ³⁺ ions on enhanced ~2.9¼m emission from Ho ³⁺ ions in low phonon oxide glass system. <i>Scientific Reports</i> , 2016, 6, 29203.	1.6	22

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19	In vitro bioactivity and antibacterial properties of bismuth oxide modified bioactive glasses. Journal of Materials Research, 2018, 33, 178-190.	1.2	22
20	Formation and spectral probing of transparent oxyfluoride glass-ceramics containing (Eu ²⁺ , Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 702 T	1.7	20
21	Time Resolved Fluorescence and Energy Transfer Analysis of Nd ³⁺ +Yb ³⁺ +Er ³⁺ Triply-Doped BaAl ²⁺ -Metaphosphate Glasses for an Eye Safe Emission (1.54Å ^{1/4} m). Journal of Fluorescence, 2010, 20, 425-434.	1.3	17
22	Mid-IR transparent TeO ₂ -TiO ₂ -La ₂ O ₃ glass and its crystallization behavior for photonic applications. Journal of the American Ceramic Society, 2018, 101, 3900-3916.	1.9	16
23	On the fragility of Cu ₄₇ Ti ₃₃ Zr ₁₁ Ni ₈ Si ₁ metallic glass. Journal Physics D: Applied Physics, 2006, 39, 2600-2608.	1.3	15
24	Insights into Er ³⁺ +Yb ³⁺ energy transfer dynamics upon infrared ~1550 nm excitation in a low phonon fluoro-tellurite glass system. Journal of Luminescence, 2017, 187, 441-448.	1.5	15
25	Glass-forming ability and fragility parameter of amorphous Fe ₆₇ Co _{9.5} Nd ₃ Dy _{0.5} B ₂₀ . Journal of Applied Physics, 2006, 100, 023501.	1.1	14
26	Realization of warm white light from Ce-Eu-Tb doped zinc fluoroboro silicate glass for lighting applications. Journal of Alloys and Compounds, 2018, 747, 242-249.	2.8	14
27	Eu ³⁺ -doped ferroelectric BaBi ₂ Ta ₂ O ₉ based glass-ceramic nanocomposites: Crystallization kinetics and energy storage properties. Journal of Alloys and Compounds, 2018, 740, 237-249.	2.8	14
28	Structure and Stability of High CaO- and P ₂ O ₅ -Containing Silicate and Borosilicate Bioactive Glasses. Journal of Physical Chemistry B, 2019, 123, 7558-7569.	1.2	14
29	Nonisothermal crystallization kinetics and microstructure evolution of calcium lanthanum metaborate glass. Journal of Thermal Analysis and Calorimetry, 2010, 101, 143-151.	2.0	13
30	Elucidating the effect of CaF ₂ on structure, biocompatibility and antibacterial properties of S53P4 glass. Journal of Alloys and Compounds, 2020, 831, 154704.	2.8	13
31	Enhanced near-infrared to green upconversion from Er ³⁺ -doped oxyfluoride glass and glass ceramics containing BaGdF ₅ nanocrystals. International Journal of Applied Glass Science, 2017, 8, 204-215.	1.0	12
32	Structural elucidation of NASICON (Na ₃ Al ₂ P ₃ O ₁₂) based glass electrolyte materials: effective influence of boron and gallium. RSC Advances, 2018, 8, 14422-14433.	1.7	12
33	Enhanced luminescence at 2.88 and 2.04 Å ^{1/4} m from Ho ³⁺ /Yb ³⁺ codoped low phonon energy TeO ₂ -TiO ₂ -La ₂ O ₃ glass. AIP Advances, 2019, 9, .	0.6	11
34	Tailoring the microstructure and mechanical properties of Ti-Al alloy using a novel electromagnetic stirring method. Scripta Materialia, 2006, 55, 1143-1146.	2.6	10
35	Bandwidth enhancement of MIR emission in Yb ³⁺ /Er ³⁺ /Dy ³⁺ -triply doped fluoro-tellurite glass. Laser Physics Letters, 2017, 14, 035804.	0.6	10
36	Fabrication of bulk amorphous Fe ₆₇ Co _{9.5} Nd ₃ Dy _{0.5} B ₂₀ alloy by hot extrusion of ribbon and study of the magnetic properties. Journal of Materials Science, 2006, 41, 3445-3450.	1.7	9

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37	Al ₂ O ₃ influence on structural, elastic, thermal properties of Yb ³⁺ doped Ba-La-tellurite glass: Evidence of reduction in self-radiation trapping at 1 μ m emission. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 318-325.	2.0	9
38	Experimental evidence for quantum cutting co-operative energy transfer process in Pr ³⁺ /Yb ³⁺ ions co-doped fluorotellurite glass: dispute over energy transfer mechanism. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33115-33125.	1.3	8
39	Influence of Ho ₂ O ₃ on Optimizing Nanostructured Ln ₂ Te ₆ O ₁₅ Anti-Glass Phases to Attain Transparent TeO ₂ -Based Glass-Ceramics for Mid-IR Photonic Applications. <i>Advanced Engineering Materials</i> , 2020, 22, 1901357.	1.6	8
40	Effect of TiO ₂ on thermal, structural and third-order nonlinear optical properties of Ca-La-Ba-O glass system. <i>Journal of Alloys and Compounds</i> , 2010, 489, 493-498.	2.8	7
41	Complete suppression of metastable phase and significant enhancement of magnetic properties of B-rich PrFeB nanocomposites prepared by devitrifying amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 24-27.	1.0	6
42	Role of iodine in broadening the optical window of As Sb S I chalcogenide glass system. <i>Journal of Non-Crystalline Solids</i> , 2017, 470, 47-52.	1.5	6
43	Structural modification associated with Al ₂ O ₃ addition in oxyfluoride glasses: Thermal and mechanical properties. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5490-5501.	1.9	5
44	Controlling melt convection—an innovation potential for concerted microstructure evolution of Nd-Fe-B alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 413-414, 302-305.	2.6	4
45	Frequency upconversion mechanism in Ho ³⁺ /Yb ³⁺ -codoped TeO ₂ -TiO ₂ -La ₂ O ₃ glasses. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	4
46	Correlation between Raman spectroscopy and mechanical properties of As-Sb-S-I chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 507, 56-65.	1.5	4
47	Structure and magnetic properties in Ag-stabilized ferromagnetic sensor of CrO ₂ nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 498, 125-128.	2.6	3
48	Broad NIR emission near c - Si band gap from Bi-doped Ba-La metaphosphate glasses as promising solar spectral converter. <i>Journal of Materials Science</i> , 2015, 50, 5450-5457.	1.7	3
49	Factors governing the sinterability, In vitro dissolution, apatite formation and antibacterial properties in B ₂ O ₃ incorporated S53P4 based glass powders. <i>Ceramics International</i> , 2022, 48, 4512-4525.	2.3	3
50	Influence of melt convection on microstructure evolution of Nd-Fe-B alloys using a forced crucible rotation technique. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3277-3280.	0.8	1