Kaushik Biswas

List of Publications by Year
in descending order

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Version: 2024-02-01

50	1,101	393982	433756
papers	citations	19 h-index	31 g-index

51	51	51	1147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Factors governing the sinterability, In vitro dissolution, apatite formation and antibacterial properties in B2O3 incorporated S53P4 based glass powders. Ceramics International, 2022, 48, 4512-4525.	2.3	3
2	Elucidating the effect of CaF2 on structure, biocompatibility and antibacterial properties of S53P4 glass. Journal of Alloys and Compounds, 2020, 831, 154704.	2.8	13
3	Influence of Ho₂O₃ on Optimizing Nanostructured Ln₂Te₆O₁₅Antiâ€Glass Phases to Attain Transparent TeO₂â€Based Glassâ€Ceramics for Midâ€IR Photonic Applications. Advanced Engineering Materials, 2020, 22, 1901357.	1.6	8
4	Structure and Stability of High CaO- and P2O5-Containing Silicate and Borosilicate Bioactive Glasses. Journal of Physical Chemistry B, 2019, 123, 7558-7569.	1.2	14
5	Frequency upconversion mechanism in Ho3+/Yb3+-codoped TeO2â€“TiO2â€“La2O3 glasses. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	4
6	Enhanced luminescence at 2.88 and 2.04 Î¼m from Ho3+/Yb3+ codoped low phonon energy TeO2â€“TiO2â€“La2O3 glass. AIP Advances, 2019, 9, .	0.6	11
7	Correlation between Raman spectroscopy and mechanical properties of As-Sb-S-I chalcogenide glasses. Journal of Non-Crystalline Solids, 2019, 507, 56-65.	1.5	4
8	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
9	Structural elucidation of NASICON (Na₃Al₂P₃O₁₂) based glass electrolyte materials: effective influence of boron and gallium. RSC Advances, 2018, 8, 14422-14433.	1.7	12
10	Midâ€IR transparent TeO₂â€TiO₂â€La₂O₃ glass and its crystallization behavior for photonic applications. Journal of the American Ceramic Society, 2018, 101, 3900-3916.	1.9	16
11	In vitro bioactivity and antibacterial properties of bismuth oxide modified bioactive glasses. Journal of Materials Research, 2018, 33, 178-190.	1.2	22
12	Eu3+doped ferroelectric BaBi2Ta2O9 based glass-ceramic nanocomposites: Crystallization kinetics and energy storage properties. Journal of Alloys and Compounds, 2018, 740, 237-249.	2.8	14
13	Effect of boron oxide addition on structural, thermal, in vitro bioactivity and antibacterial properties of bioactive glasses in the base S53P4 composition. Journal of Non-Crystalline Solids, 2018, 498, 204-215.	1.5	40
14	Bandwidth enhancement of MIR emission in Yb3+/Er3+/Dy3+triply doped fluoro-tellurite glass. Laser Physics Letters, 2017, 14, 035804.	0.6	10
15	Role of iodine in broadening the optical window of As Sb S I chalcogenide glass system. Journal of Non-Crystalline Solids, 2017, 470, 47-52.	1.5	6
16	Insights into Er 3+ â†"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
17	Structural modification associated with Al₂O₃ addition in oxyfluoride glasses: Thermal and mechanical properties. Journal of the American Ceramic Society, 2017, 100, 5490-5501.	1.9	5
18	Enhanced nearâ€infrared to green upconversion from Er 3+ â€doped oxyfluoride glass and glass ceramics containing BaGdF 5 nanocrystals. International Journal of Applied Glass Science, 2017, 8, 204-215.	1.0	12

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19	Experimental evidence for quantum cutting co-operative energy transfer process in Pr3+/Yb3+ ions co-doped fluorotellurite glass: dispute over energy transfer mechanism. Physical Chemistry Chemical Physics, 2016, 18, 33115-33125.	1.3	8
20	Role of Yb3+ ions on enhanced ~2.9â€‰Î¼m emission from Ho3+ ions in low phonon oxide glass system. Scientific Reports, 2016, 6, 29203.	1.6	22
21	Broad NIR emission near c - Si band gap from Bi-doped Baâ€“Al metaphosphate glasses as promising solar spectral converter. Journal of Materials Science, 2015, 50, 5450-5457.	1.7	3
22	Crystallization kinetics analysis of BaF2 and BaGdF5 nanocrystals precipitated from oxyfluoride glass systems: A comparative study. Thermochimica Acta, 2015, 610, 1-9.	1.2	25
23	Formation and spectral probing of transparent oxyfluoride glass-ceramics containing (Eu2+,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.7	20
24	Influence of bismuth on structural, elastic and spectroscopic properties of Nd3+ doped Zincâ€“Boro-Bismuthate glasses. Journal of Luminescence, 2014, 149, 163-169.	1.5	52
25	Near-infrared frequency down-conversion and cross-relaxation in Eu2+/Eu3+â€“Yb3+ doped transparent oxyfluoride glass and glassâ€“ceramics. Journal of Alloys and Compounds, 2014, 608, 266-271.	2.8	24
26	Enhanced 1.8Î¼m emission in Yb3+/Tm3+ co-doped tellurite glass: Effects of Yb3+â†”Tm3+ energy transfer and back transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 147, 112-120.	1.1	22
27	Al2O3 influence on structural, elastic, thermal properties of Yb3+ doped Baâ€“La-tellurite glass: Evidence of reduction in self-radiation trapping at 1Î¼m emission. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 318-325.	2.0	9
28	Enhanced 2Î¼m broad-band emission and NIR to visible frequency up-conversion from Ho3+/Yb3+ co-doped Bi2O3â€“GeO2â€“ZnO glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 112, 301-308.	2.0	40
29	Preparation of alumino-phosphate glass by microwave radiation. Journal of Materials Research, 2013, 28, 1955-1961.	1.2	24
30	Luminescence Properties of Dual Valence Eu Doped Nano-crystalline BaF2 Embedded Glass-ceramics and Observation of Eu2+ â†' Eu3+ Energy Transfer. Journal of Fluorescence, 2012, 22, 745-752.	1.3	73
31	Synthesis and Structural Probing of <scp><scp>Eu³⁺</scp></scp> Doped <scp><scp>BaYF₅</scp></scp> Nanoâ€Crystals in Transparent Oxyfluoride Glassâ€Ceramics. International Journal of Applied Glass Science, 2012, 3, 154-162.	1.0	26
32	Broadband Er^3+ emission in highly nonlinear Bismuth modified Zinc-Borate glasses. Optical Materials Express, 2011, 1, 344.	1.6	37
33	Concentration quenched luminescence and energy transfer analysis of Nd3+ ion doped Ba-Al-metaphosphate laser glasses. Applied Physics B: Lasers and Optics, 2010, 101, 235-244.	1.1	59
34	Time Resolved Fluorescence and Energy Transfer Analysis of Nd3+â€“Yb3+â€“Er3+ Triply-Doped Baâ€“Al-Metaphosphate Glasses for an Eye Safe Emission (1.54ÂÎ¼m). Journal of Fluorescence, 2010, 20, 425-434.	1.3	17
35	Nonisothermal crystallization kinetics and microstructure evolution of calcium lanthanum metaborate glass. Journal of Thermal Analysis and Calorimetry, 2010, 101, 143-151.	2.0	13
36	Enhanced Blue Emission from Transparent Oxyfluoride Glassâ€“Ceramics Containing Pr³⁺:BaF₂Nanocrystals. Journal of the American Ceramic Society, 2010, 93, 1010-1017.	1.9	59

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37	Efficient non-resonant energy transfer in Nd^3+-Yb^3+ codoped Ba-Al-metaphosphate glasses. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2750.	0.9	35
38	Effect of TiO2 on thermal, structural and third-order nonlinear optical properties of Caâ€“Laâ€“Bâ€“O glass system. Journal of Alloys and Compounds, 2010, 489, 493-498.	2.8	7
39	Concentration-dependent luminescence of Tb3+ ions in high calcium aluminosilicate glasses. Journal of Luminescence, 2009, 129, 1347-1355.	1.5	123
40	Sensitized red luminescence from Bi3+ co-doped Eu3+: ZnOâ€“B2O3 glasses. Physica B: Condensed Matter, 2009, 404, 3525-3529.	1.3	48
41	Effect of melt convection on the secondary dendritic arm spacing in peritectic Ndâ€“Feâ€“B alloy. Journal of Alloys and Compounds, 2009, 480, 295-298.	2.8	26
42	Structure and magnetic properties in Ag-stabilized ferromagnetic sensor of CrO2 nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 125-128.	2.6	3
43	Complete suppression of metastable phase and significant enhancement of magnetic properties of B-rich PrFeB nanocomposites prepared by devitrifying amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2007, 308, 24-27.	1.0	6
44	Influence of melt convection on microstructure evolution of Nd-Fe-B alloys using a forced crucible rotation technique. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3277-3280.	0.8	1
45	Fabrication of bulk amorphous Fe67Co9.5Nd3Dy0.5B20 alloy by hot extrusion of ribbon and study of the magnetic properties. Journal of Materials Science, 2006, 41, 3445-3450.	1.7	9
46	Tailoring the microstructure and mechanical properties of Tiâ€“Al alloy using a novel electromagnetic stirring method. Scripta Materialia, 2006, 55, 1143-1146.	2.6	10
47	On the fragility of Cu47Ti33Zr11Ni8Si1metallic glass. Journal Physics D: Applied Physics, 2006, 39, 2600-2608.	1.3	15
48	Glass-forming ability and fragility parameter of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Applied Physics, 2006, 100, 023501.	1.1	14
49	Controlling melt convectionâ€”an innovation potential for concerted microstructure evolution of Nd-Fe-B alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 302-305.	2.6	4
50	Crystallization kinetics of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Alloys and Compounds, 2005, 397, 104-109.	2.8	44