

# Basudeb Karmakar

## List of Publications by Citations

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46  
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115  
ext. papers

3,020  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
113	Nanosilver enhanced upconversion fluorescence of erbium ions in Er <sup>3+</sup> : Ag-antimony glass nanocomposites. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 013102	2.5	132
112	Dense silica microspheres from organic and inorganic acid hydrolysis of TEOS. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 272, 119-126	3.9	99
111	Hydrolysis/condensation reactions of TEOS in the presence of acetic acid leading to the generation of glass-like silica microspheres in solution at room temperature. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2289-2293		92
110	EPR, FTIR, optical absorption and photoluminescence studies of Fe <sub>2</sub> O <sub>3</sub> and CeO <sub>2</sub> doped ZnO/Bi <sub>2</sub> O <sub>3</sub> /B <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 493, 256-262	5.7	91
109	Surface Plasmon Resonance and Enhanced Fluorescence Application of Single-step Synthesized Elliptical Nano Gold-embedded Antimony Glass Dichroic Nanocomposites. <i>Plasmonics</i> , <b>2010</b> , 5, 149-159	2.4	85
108	Core-shell Au-Ag nanoparticles in dielectric nanocomposites with plasmon-enhanced fluorescence: A new paradigm in antimony glasses. <i>Nano Research</i> , <b>2009</b> , 2, 607-616	10	83
107	Enhancement of Er <sup>3+</sup> upconverted luminescence in Er <sup>3+</sup> : Au-antimony glass dichroic nanocomposites containing hexagonal Au nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, B21	1.7	75
106	Nephelauxetic effect of low phonon antimony oxide glass in absorption and photoluminescence of rare-earth ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2011</b> , 79, 1766-824	4.4	71
105	Efficient green and red fluorescence upconversion in erbium doped new low phonon antimony glasses. <i>Optical Materials</i> , <b>2009</b> , 31, 609-618	3.3	64
104	Infrared-to-red upconversion luminescence in samarium-doped antimony glasses. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 1989-1996	3.8	59
103	Deposition of nanocrystalline CuS thin film from a single precursor: Structural, optical and electrical properties. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 130, 392-397	4.4	58
102	Microstructure, mechanical, thermal, EPR, and optical properties of MgAl <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> spinel glass/ceramic nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 583, 498-509	5.7	56
101	Iron selenide thin film: Peroxidase-like behavior, glucose detection and amperometric sensing of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 173, 724-731	8.5	56
100	Nano silver:antimony glass hybrid nanocomposites and their enhanced fluorescence application. <i>Solid State Sciences</i> , <b>2011</b> , 13, 887-895	3.4	56
99	Crystallization Kinetics and Mechanism of Low-Expansion Lithium Aluminosilicate Glass-Ceramics by Dilatometry. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2572-2574	3.8	55
98	Thermal, Structural, and Enhanced Photoluminescence Properties of Eu <sup>3+</sup> -doped Transparent Willemite Glass/Ceramic Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2424-2431	3.8	52
97	Chemical synthesis of mesoporous CuO from a single precursor: Structural, optical and electrical properties. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1900-1904	3.3	51

96	Fabrication and enhanced photoluminescence properties of Sm <sup>3+</sup> -doped ZnO/Al <sub>2</sub> O <sub>3</sub> /B <sub>2</sub> O <sub>3</sub> /BiO <sub>2</sub> glass derived willemite glass/ceramic nanocomposites. <i>Optical Materials</i> , <b>2014</b> , 36, 1463-1470	3-3	50
95	Green and red fluorescence upconversion in neodymium-doped low phonon antimony glasses. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 476, 383-389	5-7	47
94	IRRS, UV-Vis-NIR absorption and photoluminescence upconversion in Ho <sup>3+</sup> -doped oxyfluorophosphate glasses. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2663-2672	3-3	47
93	Effects of nucleating agents on crystallization and microstructure of fluorophlogopite mica-containing glass/ceramics. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 1612-1623	4-3	42
92	Synthesis and enhanced photoluminescence in novel Au@Ag shell nanoparticles embedded Nd <sup>3+</sup> -doped antimony oxide glass hybrid nanocomposites. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2011</b> , 112, 2469-2479	2-1	42
91	FT-IRRS, UV-Vis-NIR absorption and green upconversion in Er <sup>3+</sup> doped lead silicate glass. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 342, 132-139	3-9	41
90	Structure and properties of low-phonon antimony glasses and nano glass-ceramics in K <sub>2</sub> O/B <sub>2</sub> O <sub>3</sub> /Sb <sub>2</sub> O <sub>3</sub> system. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 987-999	3-9	39
89	Preparation and characterization of novel foamed porous glass-ceramics. <i>Materials Characterization</i> , <b>2015</b> , 103, 90-100	3-9	38
88	Effects of SiO <sub>2</sub> and TiO <sub>2</sub> fillers on thermal and dielectric properties of eco-friendly bismuth glass microcomposites of plasma display panels. <i>Bulletin of Materials Science</i> , <b>2010</b> , 33, 33-41	1-7	37
87	UV transparency and structure of fluorophosphate glasses. <i>Materials Letters</i> , <b>2002</b> , 57, 953-958	3-3	34
86	Surface plasmon resonance in nano-gold antimony glass/ceramic dichroic nanocomposites: One-step synthesis and enhanced fluorescence application. <i>Applied Surface Science</i> , <b>2009</b> , 255, 9447-9452	6-7	33
85	Processing and Properties of Eu <sup>3+</sup> -Doped Transparent YAG (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ) Nanoglass/Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3244-3251	3-8	32
84	Single-Step Synthesis and Surface Plasmons of Bismuth-Coated Spherical to Hexagonal Silver Nanoparticles in Dichroic Ag:Bismuth Glass Nanocomposites. <i>Plasmonics</i> , <b>2011</b> , 6, 457-467	2-4	31
83	Enhanced frequency upconversion of Sm <sup>3+</sup> ions by elliptical Au nanoparticles in dichroic Sm <sup>3+</sup> : Au-antimony glass nanocomposites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2010</b> , 75, 640-6	4-4	31
82	EPR, optical absorption and photoluminescence properties of MnO <sub>2</sub> doped 23B <sub>2</sub> O <sub>3</sub> /ZnO/2Bi <sub>2</sub> O <sub>3</sub> glasses. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2157-2161	2-8	31
81	Nanocrystalline FeS thin film used as an anode in photo-electrochemical solar cell and as hydrogen peroxide sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 166-167, 726-732	8-5	29
80	Luminescence and dielectric properties of nano-structured Eu <sup>3+</sup> :K <sub>2</sub> O/Nb <sub>2</sub> O <sub>5</sub> /BiO <sub>2</sub> glass-ceramics. <i>Solid State Sciences</i> , <b>2009</b> , 11, 1325-1332	3-4	29
79	Oxidative control of surface plasmon resonance of bismuth nanometal in bismuth glass nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 119, 355-358	4-4	29

78	Synthesis and characterization of low softening point high Bi <sub>2</sub> O <sub>3</sub> glasses in the K <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> system. <i>Materials Characterization</i> , <b>2011</b> , 62, 626-634	3.9	28
77	Structural effects of Zn <sup>+2</sup> /Mg <sup>+2</sup> ratios on crystallization characteristics and microstructure of fluorophlogopite mica-containing glass-ceramics. <i>Solid State Sciences</i> , <b>2015</b> , 44, 10-21	3.4	27
76	Influence of Ce, Nd, Sm and Gd oxides on the properties of alkaline-earth borosilicate glass sealantPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2016</b> , 4, 29-38	2.4	26
75	Synthesis and characterization of nanocrystalline zinc sulfide via zinc thiobenzoate-lutidine single-source precursor. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 371, 20-26	2.7	26
74	Structure, dielectric and optical properties of transparent Nd <sup>3+</sup> : KNbO <sub>3</sub> nanocrystalline glass/ceramics. <i>Optical Materials</i> , <b>2010</b> , 32, 1202-1209	3.3	26
73	Effects of In-situ Generated Coinage Nanometals on Crystallization and Microstructure of Fluorophlogopite Mica Containing Glass-Ceramics. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 110-119	9.1	25
72	Optical properties of Eu(3+)-doped antimony-oxide-based low phonon disordered matrices. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 035603	1.8	24
71	Effects of lanthanum oxide on the properties of barium-free alkaline-earth borosilicate sealant glass. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 387, 62-70	3.9	23
70	Synthesis and properties of glasses in the K <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> system and bismuth titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ) nano glass/ceramics thereof. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 2967-2976	4.3	23
69	Nanometal-Glass Hybrid Nanocomposites: Synthesis, Properties and Applications. <i>Transactions of the Indian Ceramic Society</i> , <b>2010</b> , 69, 171-186	1.8	21
68	Structure, dielectric and optical properties of Nd <sup>3+</sup> -doped LiTaO <sub>3</sub> transparent ferroelectric glass/ceramic nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 489, 281-288	5.7	21
67	Plasmon tuning of nano-Au in dichroic devitrified antimony glass nanocomposites by refractive index control. <i>Chemical Physics Letters</i> , <b>2009</b> , 479, 100-104	2.5	21
66	Processing and Properties of Eu <sup>3+</sup> :LiTaO <sub>3</sub> TransparentGlass/Ceramic Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 1934-1939	3.8	20
65	Optical and dielectric properties of isothermally crystallized nano-KNbO <sub>3</sub> in Er <sup>3+</sup> -doped K <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2010</b> , 75, 243-50	4.4	20
64	Rare earth ion controlled crystallization of mica glass-ceramics. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 678, 360-369	5.7	20
63	Controlled oxidative synthesis of Bi nanoparticles and emission centers in bismuth glass nanocomposites for photonic application. <i>Optical Materials</i> , <b>2011</b> , 33, 1760-1765	3.3	19
62	Electron paramagnetic resonance, optical absorption and photoluminescence properties of Cu <sup>2+</sup> ions in ZnO-Bi <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 346, 21-25	2.8	18
61	Synthesis and Properties of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> -Based Glass-Ceramics Modified with Eu <sup>3+</sup> . <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1851-1857	3.8	17

60	Photoluminescence enhancement of Eu <sup>3+</sup> by energy transfer from Bi <sup>2+</sup> to Eu <sup>3+</sup> in bismuth glass nanocomposites. <i>RSC Advances</i> , <b>2011</b> , 1, 751	3.7	17
59	Transparent Eu <sup>3+</sup> -Doped Ferroelectric Bismuth Titanate Glass-Ceramic Nanocomposites: Fabrication and Properties. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3056-3063	3.8	16
58	Synthesis and optical properties of multifunctional CdS nanostructured dielectric nanocomposites. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 1761	1.7	16
57	Effects of nano-YAG (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ) crystallization on the structure and photoluminescence properties of Nd <sup>3+</sup> -doped K <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> glasses. <i>Solid State Sciences</i> , <b>2010</b> , 12, 1756-1763	3.4	16
56	Structure and Properties of Low Phonon Antimony Glasses in the K <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -nO System. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2230-2236	3.8	15
55	Fabrication and photoluminescence properties of Ag <sup>0</sup> and Ag <sup>0</sup> /Er <sup>3+</sup> containing plasmonic glass nanocomposites in the K <sub>2</sub> O-nO-Bi <sub>2</sub> O <sub>3</sub> system. <i>Solid State Sciences</i> , <b>2014</b> , 37, 144-153	3.4	14
54	Synthesis and characterization of chloroborosilicate glasses in the K <sub>2</sub> O-BaO-Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -BaCl <sub>2</sub> system. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 398-399, 32-41	3.9	14
53	Processing and Properties of Eu <sup>3+</sup> -Doped Barium Bismuth Titanate (BaBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> ) Glass-Ceramic Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2387-2395	3.8	14
52	Blue, green and red upconversions in Ho <sub>2</sub> O <sub>3</sub> -doped fluorophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1377-1382	3.9	14
51	Fabrication and properties of Nd <sup>3+</sup> -doped ferroelectric barium bismuth titanate glass-ceramic nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 680, 237-246	5.7	14
50	Microstructural characterization and wear properties of silver and gold nanoparticle doped K-Mg-Al-Si-O-F glass-ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 22308-22317	5.1	13
49	White light emitting Ho <sup>3+</sup> -doped CdS nanocrystal ingrained glass nanocomposites. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 083106	3.4	12
48	Enhanced photoluminescence up and downconversions of Sm <sup>3+</sup> ions by Ag nanoparticles in chloroborosilicate glass nanocomposites. <i>RSC Advances</i> , <b>2015</b> , 5, 81123-81133	3.7	12
47	Cr <sup>6+</sup> Controlled Nucleation in SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> -K <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -F Glass Sealant (SOFC). <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	12
46	Enhancement and tuning of photoluminescence properties in Pr <sup>3+</sup> /Au co-doped antimony oxide glass nanocomposites by thermal treatment. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 313-322	5.7	12
45	Infrared Spectroscopic Method for Determination of Thermal Properties of Fluorophosphate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1305-1307	3.8	11
44	Alkoxide Hydrolysis and Preparation of TiO <sub>2</sub> Powders. <i>Transactions of the Indian Ceramic Society</i> , <b>1985</b> , 44, 10-14	1.8	11
43	Localized Surface Plasmon Absorption and Photoluminescence of In Situ-Generated Nano Silver in a Novel Chloroborosilicate Glass and Glass Ceramics. <i>Plasmonics</i> , <b>2015</b> , 10, 191-202	2.4	10

42	Synthesis and Characterization of Eu <sup>3+</sup> -Doped Transparent Glass/ceramics Containing Nanocrystalline SrInNbIVO <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2155-2162	3.8	10
41	Enhanced photoluminescence and structure of Dy <sup>3+</sup> -doped SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> -containing transparent glass-ceramics. <i>Optical Materials</i> , <b>2013</b> , 35, 1549-1556	3.3	10
40	Structure and dielectric properties of potassium niobate nano glass/ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2011</b> , 22, 728-734	2.1	10
39	White light-emitting Dy <sup>3+</sup> -doped transparent chloroborosilicate glass: synthesis and optical properties. <i>Journal of Asian Ceramic Societies</i> , <b>2019</b> , 7, 42-52	2.4	10
38	Plasmonic Au x Ag y bimetallic alloy nanoparticles enhanced photoluminescence upconversion of Er <sup>3+</sup> ions in antimony glass hybrid nanocomposites. <i>Journal of Modern Optics</i> , <b>2011</b> , 58, 1012-1023	1.1	9
37	In situ electron beam irradiated rapid growth of bismuth nanoparticles in bismuth-based glass dielectrics at room temperature. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 3599-3606	2.3	9
36	Single-step in-situ synthesis and optical properties of ZnSe nanostructured dielectric nanocomposites. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 134309	2.5	8
35	Quantum and dielectric confinements of sub-10nm gold in dichroic phosphate glass nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 146, 198-203	4.4	7
34	Effects of M <sup>2+</sup> (M = Ca, Sr, and Ba) Addition on Crystallization and Microstructure of SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -K <sub>2</sub> O-F Glass. <i>Indian Journal of Materials Science</i> , <b>2015</b> , 2015, 1-8		7
33	Transparent Nd <sup>3+</sup> -doped bismuth titanate glass-ceramic nanocomposites: Fabrication and properties. <i>Optical Materials Express</i> , <b>2014</b> , 4, 843	2.6	7
32	Nanostructuring and fluorescence properties of Eu <sup>3+</sup> :LiTaO <sub>3</sub> in Li <sub>2</sub> O-Ta <sub>2</sub> O <sub>5</sub> -Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> glass-ceramics. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 4495-4498	4.3	7
31	Microstructure-mechanical properties of Ag/Au doped K-Mg-Al-Si-O-F glass-ceramics.. <i>RSC Advances</i> , <b>2021</b> , 11, 11415-11424	3.7	7
30	Tuneable and Au-enhanced yellow emission in Dy <sup>3+</sup> /Au co-doped antimony oxide glass nanocomposites. <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 463, 40-49	3.9	6
29	Enhancement of photoluminescence in white light emitting glasses by localized surface plasmons of Ag and Au nanoparticles. <i>Chemical Physics Letters</i> , <b>2020</b> , 754, 137713	2.5	6
28	One-step synthesis and properties of monolithic photoluminescent ruby colored cuprous oxide antimony oxide glass nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4999-5007	5.7	6
27	Effects of Nano-LiTaO <sub>3</sub> Crystallization on the Dielectric and Optical Properties in Er <sup>3+</sup> -Doped Li <sub>2</sub> O-Ta <sub>2</sub> O <sub>5</sub> -Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Glasses. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 1031-1041	2	6
26	Synthesis of nanocrystalline and mesoporous zinc sulphide from a single precursor Zn(SOCCH <sub>3</sub> ) <sub>2</sub> Lut <sub>2</sub> complex. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 784-788	3.9	6
25	Nanocrystalline microstructure in Sm <sup>3+</sup> and Gd <sup>3+</sup> doped K <sub>2</sub> O-MgO-Al <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> glass-ceramic sealant (SOFC). <i>Materials Advances</i> , <b>2020</b> , 1, 463-468	3.3	6

24	Synthesis of transparent chloroborosilicate nanoglass-ceramics: Crystallization and growth mechanism of BaCl <sub>2</sub> nanocrystalsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2015</b> , 3, 390-401	2.4	5
23	Structural and optical properties of ZnSe quantum dots in glass nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 163, 554-561	4.4	5
22	SECOND HARMONIC GENERATION IN FERROELECTRIC LiTaO <sub>3</sub> AND KNbO <sub>3</sub> CONTAINING BULK NANO GLASS-CERAMICS. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2011</b> , 20, 49-61	0.8	5
21	Mica (KMg <sub>3</sub> AlSi <sub>3</sub> O <sub>10</sub> F <sub>2</sub> ) based glass-ceramic composite sealant with thermal stability for SOFC application. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 46, 23480-23480	6.7	5
20	Zr <sup>4+</sup> -controlled nucleation and microstructure in Si-Mg-Al-K-B-F glass-ceramic sealant (solid oxide fuel cell). <i>Materials Today Energy</i> , <b>2020</b> , 18, 100535	7	5
19	Synthesis and properties of ZnTe and Eu <sup>3+</sup> ion co-doped glass nanocomposites. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 163510	2.5	4
18	In situ generated CdS nanostructure induced enhanced photoluminescence from Dy <sup>3+</sup> ions doped dielectric nanocomposites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700105	1.6	3
17	CdSe nanocrystals ingrained dielectric nanocomposites: synthesis and photoluminescence properties. <i>Materials Research Express</i> , <b>2015</b> , 2, 015014	1.7	3
16	Preparation and Properties of BaBiBO <sub>4</sub> BiO <sub>2</sub> Glasses. <i>International Journal of Applied Glass Science</i> , <b>2010</b> , 1, 368-377	1.8	3
15	Enhanced green and orange photoluminescence of nanostructured CdS in glass nanocomposites by energy transfer From Ho <sup>3+</sup> and Eu <sup>3+</sup> ions. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 015003	1.8	2
14	Effects of TiO <sub>2</sub> BiO <sub>2</sub> fillers on thermal and dielectric properties of bismuth glass microcomposite dielectrics for plasma display panel. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2011</b> , 22, 515-522	2.1	2
13	Surface Properties of TiO <sub>2</sub> ZrO <sub>2</sub> Powders in Aqueous Suspensions. <i>Transactions of the Indian Ceramic Society</i> , <b>1987</b> , 46, 53-54	1.8	2
12	Wide thermal expansion in Ag <sub>0</sub> /Au <sub>0</sub> nanoparticle doped SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -K <sub>2</sub> O-MgF <sub>2</sub> glass-ceramics. <i>Materials Today: Proceedings</i> , <b>2021</b> , 50, 134-134	1.4	2
11	Anomalous properties of chloroborosilicate glasses in the K <sub>2</sub> O-BaO-Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -BiO <sub>2</sub> -BaCl <sub>2</sub> system. <i>Bulletin of Materials Science</i> , <b>2015</b> , 38, 1487-1497	1.7	1
10	Functionalization of glasses by 4f rare-earth metal ion doping <b>2017</b> , 65-117		1
9	Nano Gold (Au <sub>0</sub> ) and Au <sub>0</sub> -Er <sup>3+</sup> Containing Plasmonic K <sub>2</sub> O-ZnO-SiO <sub>2</sub> Glass Nanocomposites: Processing and Properties. <i>Transactions of the Indian Ceramic Society</i> , <b>2018</b> , 77, 12-19	1.8	1
8	Novel Plasmonic Nanometal - Rare-Earth Ions co-doped Antimony Glasses for Nanophotonic Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1788, 1-6		1
7	Nanostructured LiTaO <sub>3</sub> and KNbO <sub>3</sub> Ferroelectric Transparent Glass-Ceramics for Applications in Optoelectronics <b>2011</b> ,		1

6	Influence of SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> Fillers on Thermal and Dielectric Properties of Barium Zinc Borate Glass Microcomposites for Barrier Rib of Plasma Display Panels (PDPs). <i>Transactions of the Indian Ceramic Society</i> , <b>2010</b> , 69, 75-82	1.8	1
5	Functional glass-ceramics <b>2017</b> , 119-208		0
4	Synthesis and characterization of low T <sub>g</sub> As-S-I chalcogenide glass for processing of raw diamonds. <i>International Journal of Applied Glass Science</i> , <b>2017</b> , 8, 132-135	1.8	
3	Functionalization of glasses by incorporation of semiconductor <b>2017</b> , 235-252		
2	Glasses and glass-ceramics for biomedical applications <b>2017</b> , 253-280		
1	Effects of Some Variables on the Point of Zero Charge of TiO <sub>2</sub> /ZrO <sub>2</sub> Double Oxides. <i>Bulletin of the Chemical Society of Japan</i> , <b>1989</b> , 62, 1373-1375		5.1