

D Krishna Rao

List of Publications by Year in descending order

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69
papers

1,571
citations

279798

23
h-index

361022

35
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69
all docs

69
docs citations

69
times ranked

937
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and spectroscopic investigations of multi-component P_2O_5 - PbO - Ga_2O_3 - Dy_2O_3 - Bi_2O_3 glass system: An insight to the energy transfer between Bi^{3+} and Dy^{3+} ions. AIP Conference Proceedings, 2019, . .	0.4	0
2	Influence of valence state of vanadium ions on structural and spectroscopic features of multi-component PbO - Al_2O_3 - TeO_2 - GeO_2 - SiO_2 glass ceramics. AIP Conference Proceedings, 2019, . .	0.4	0
3	Effect of Cr_2O_3 on the structural, optical and dielectric studies of LiF - SrO - B_2O_3 glasses. Journal of Non-Crystalline Solids, 2019, 520, 119428.	3.1	12
4	Characterization, optical and luminescence features of cobalt ions in multi-component PbO - Al_2O_3 - TeO_2 - GeO_2 - SiO_2 glass ceramics. Optical Materials, 2019, 88, 289-298.	3.6	21
5	Characterization and spectroscopic studies of multi-component calcium zinc bismuth phosphate glass ceramics doped with iron ions. AIP Conference Proceedings, 2018, . .	0.4	0
6	Influence of Bi^{3+} ions on optical and luminescence properties of multi-component P_2O_5 - PbO - Ga_2O_3 - Pr_2O_3 glass system. Optical Materials, 2018, 77, 178-186.	3.6	7
7	Microstructure and spectroscopic investigations of calcium zinc bismuth phosphate glass ceramics doped with manganese ions. Indian Journal of Physics, 2018, 92, 97-109.	1.8	4
8	Assessment of role of iron ions on the physical and spectroscopic properties of multi-component Na_2O - PbO - Bi_2O_3 - SiO_2 glass ceramics. Phase Transitions, 2018, 91, 92-107.	1.3	5
9	Electrical and spectroscopic studies on ZnO - As_2O_3 - Sb_2O_3 glasses doped with Y_2O_3 . Materials Today: Proceedings, 2018, 5, 26356-26364.	1.8	4
10	Role of valence state of vanadium ions on structural and spectroscopic properties of sodium lead bismuth silicate glass ceramics. AIP Conference Proceedings, 2018, . .	0.4	1
11	Investigation of luminescence and laser transition of Dy^{3+} ion in P_2O_5 - PbO - Bi_2O_3 - R_2O_3 ($R=Al, Ca$) Tj ETQq1 1 0.784314 rgBT	3.6	37
12	Influence of tungsten ion valence states on electrical characteristics of quaternary lithium-antimony-lead-germanate glasses. Journal of Physics and Chemistry of Solids, 2017, 107, 108-117.	4.0	9
13	Physical and spectroscopic features of cobalt ions in multi-component CaF_2 - ZnO - Bi_2O_3 - P_2O_5 glass ceramics. Journal of Alloys and Compounds, 2017, 699, 392-400.	5.5	24
14	Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbO - Al_2O_3 - TeO_2 - GeO_2 - SiO_2 glass ceramic system- a possible material for memory switching devices. Optical Materials, 2017, 73, 7-15.	3.6	19
15	Spectroscopic and structural properties of Cr^{3+} ions in lead niobium germanosilicate glasses. Journal of Luminescence, 2017, 183, 17-25.	3.1	37
16	Spectroscopic and dielectric investigations on the role of molybdenum ions in lead niobium germanosilicate glasses. Journal of Non-Crystalline Solids, 2016, 442, 44-55.	3.1	12
17	Spectroscopic features of copper ions in multi-component Na_2O - PbO - Bi_2O_3 - SiO_2 glass ceramics. Journal of Molecular Structure, 2016, 1125, 624-632.	3.6	12
18	Role of titanium ions on the physical and structural properties of calcium zinc bismuth phosphate glass ceramics. Journal of Non-Crystalline Solids, 2016, 434, 62-70.	3.1	20

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19	Thermoacoustic, volumetric, and viscometric investigations in the binary mixtures of 1,4-dioxane with n-hexane or n-heptane or n-octane. Journal of Thermal Analysis and Calorimetry, 2016, 123, 2241-2255.	3.6	19
20	Ionic conductivity, dielectric and optical properties of lithium lead borophosphate glasses combined with manganese ions. Journal of Alloys and Compounds, 2016, 663, 708-717.	5.5	39
21	Influence of local structural disorders on spectroscopic properties of multi-component $\text{CaF}_2\text{-Bi}_2\text{O}_3\text{-P}_2\text{O}_5\text{-B}_2\text{O}_3$ glass ceramics with Cr_2O_3 as nucleating agent. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 281-288.	3.9	18
22	Structural investigations of lead germanosilicate glasses doped with Nb_2O_5 by means of spectroscopic and dielectric studies. Journal of Molecular Structure, 2015, 1098, 181-190.	3.6	14
23	Physical and spectroscopic properties of multi-component $\text{Na}_2\text{O-PbO-Bi}_2\text{O}_3\text{-SiO}_2$ glass ceramics with Cr_2O_3 as nucleating agent. Optical Materials, 2015, 47, 315-322.	3.6	28
24	Dielectric dispersion and ac conduction phenomena of $\text{Li}_2\text{O-Sb}_2\text{O}_3\text{-PbO-GeO}_2\text{:Cr}_2\text{O}_3$ glass system. Materials Science in Semiconductor Processing, 2015, 35, 96-108.	4.0	39
25	Acoustic and Volumetric Properties of Mixture of (<i>N,N</i> -Dimethylacetamide + Ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock Thermodynamics, 2014, 2014, 1-9.	0.8	3
26	Ultrasonic Investigations of Molecular Interaction in Binary Mixtures of Cyclohexanone with Isomers of Butanol. Hindawi Journal of Chemistry, 2014, 2014, 1-11.	1.6	13
27	Thermoacoustic, Volumetric, and Viscometric Investigations in Binary Liquid System of Cyclohexanone with Benzyl Benzoate at $T = 308.15, 313.15, \text{ and } 318.15\text{ }^\circ\text{K}$. Journal of Thermodynamics, 2014, 2014, 1-13.	0.8	17
28	Influence of copper ions on thermoluminescence characteristics of $\text{CaF}_2\text{-B}_2\text{O}_3\text{-P}_2\text{O}_5$ glass system. Ceramics International, 2014, 40, 3707-3713.	4.8	40
29	The role of chromium ions on dielectric and spectroscopic properties of $\text{Li}_2\text{O-PbO-B}_2\text{O}_3\text{-P}_2\text{O}_5$ glasses. Journal of Non-Crystalline Solids, 2014, 398-399, 1-9.	3.1	33
30	Influence of modifier oxide on dielectric dispersion and a.c. conduction phenomena of $\text{Li}_2\text{O-Sb}_2\text{O}_3\text{-GeO}_2$ glass system. Journal of Non-Crystalline Solids, 2014, 386, 67-75.	3.1	24
31	Densities, viscosities, and excess properties for binary mixtures of ethylene glycol with amides at $308.15\text{ }^\circ\text{K}$. Journal of Thermal Analysis and Calorimetry, 2014, 118, 475-483.	3.6	16
32	Molybdenum ion: a structural probe in lithium-antimony-germanate glass system by means of dielectric and spectroscopic studies. Journal of Materials Science, 2014, 49, 6203-6216.	3.7	7
33	Spectroscopic and dielectric response of zinc bismuth phosphate glasses as a function of chromium content. Materials Research Bulletin, 2014, 57, 58-66.	5.2	19
34	Dielectric and Spectroscopic properties of CuO doped multi-component $\text{Li}_2\text{OPbOB}_2\text{O}_3\text{SiO}_2\text{Bi}_2\text{O}_3\text{Al}_2\text{O}_3$ glass system. Journal of Non-Crystalline Solids, 2013, 370, 21-30.	3.1	43
35	Influence of Ca^{3+} ions on spectroscopic and dielectric features of multi component lithium lead boro bismuth silicate glasses doped with manganese ions. Materials Research Bulletin, 2013, 48, 4618-4627.	5.2	10
36	Influence of alkaline earth oxides (R=Ca, Sr and Ba) on spectroscopic and dielectric studies of iron doped $\text{RO-Na}_2\text{O-B}_2\text{O}_3$ glasses. Journal of Non-Crystalline Solids, 2013, 364, 62-68.	3.1	19

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37	Spectroscopic and dielectric investigations of tungsten ions doped zinc bismuth phosphate glass-ceramics. <i>Journal of Molecular Structure</i> , 2013, 1036, 452-463.	3.6	11
38	Structural impact of cobalt ions on BaBiBO ₄ glass system by means of spectroscopic and dielectric studies. <i>Journal of Molecular Structure</i> , 2013, 1033, 200-207.	3.6	24
39	Volumetric and Viscometric Properties of Propanoic Acid in Equimolar Mixtures of N,N-dimethyl Formamide+Alkanols at T/K=303.15, 313.15, and 323.15. <i>Journal of Solution Chemistry</i> , 2013, 42, 494-515.	1.2	12
40	Structural changes in the ZnF ₂ -Bi ₂ O ₃ -GeO ₂ glass system doped with Fe ₂ O ₃ by spectroscopic and dielectric investigations. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 963-970.	4.0	13
41	Influence of temperature on thermodynamic properties of acid-base liquid mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1341-1352.	3.6	15
42	Densities and Viscosities of Binary Mixtures of Propanoic Acid with <i>N,N</i> -Dimethylaniline and <i>N,N</i> -Diethylaniline at <i>T</i> = (303.15, 313.15, and 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 352-357.	1.9	17
43	Excess Acoustical and Volumetric Properties and Theoretical Estimation of Ultrasonic Velocities in Binary Liquid Mixtures of 2-Chloroaniline with Acrylic Esters at 308.15 K. <i>Journal of Solution Chemistry</i> , 2012, 41, 1088-1102.	1.2	17
44	Influence of manganese ions on spectroscopic and dielectric properties of LiF-SrO-B ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1391-1398.	3.1	25
45	Structural impact of iron ions on BaBiBO ₄ glasses: Spectroscopic and dielectric investigations. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2597-2605.	3.1	17
46	Influence of molybdenum ions on spectroscopic and dielectric properties of ZnF ₂ -Bi ₂ O ₃ -P ₂ O ₅ glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 3372-3381.	3.1	31
47	Effect of some VA group modifiers on R ₂ O ₃ (R=Sb, Bi)-ZnF ₂ -GeO ₂ glasses doped with CuO by means of spectroscopic and dielectric investigations. <i>Materials Chemistry and Physics</i> , 2012, 133, 239-248.	4.0	15
48	Spectroscopic properties of RBiBO ₄ (R=Ca, Sr) glasses doped with TiO ₂ . <i>Journal of Molecular Structure</i> , 2012, 1007, 168-174.	3.6	23
49	Structural and electrical properties of ZnF ₂ -Bi ₂ O ₃ -GeO ₂ glasses doped with CoO. <i>Journal of Molecular Structure</i> , 2012, 1014, 119-125.	3.6	18
50	Spectroscopic investigations on alkali earth bismuth borate glasses doped with CuO. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 836-841.	3.1	94
51	Effect of Bi ₂ O ₃ proportion on physical, structural and electrical properties of zinc bismuth phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3585-3591.	3.1	29
52	Vanadyl ions influence on spectroscopic and dielectric properties of glass network. <i>Journal of Molecular Structure</i> , 2011, 1005, 83-90.	3.6	24
53	Optical and other spectroscopic studies of lead, zinc bismuth borate glasses doped with CuO. <i>Physica B: Condensed Matter</i> , 2011, 406, 4366-4372.	2.7	65
54	Volumetric and viscometric study of molecular interactions in the mixtures of some secondary alcohols with equimolar mixture of ethanol and N,N-dimethylacetamide at 308.15K. <i>Physica B: Condensed Matter</i> , 2011, 406, 854-858.	2.7	20

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55	Role of chromium ion valence states in ZnO-As ₂ O ₃ -Sb ₂ O ₃ glass system by means of spectroscopic and dielectric studies. <i>Materials Research Bulletin</i> , 2010, 45, 1783-1791.	5.2	21
56	Influence of molybdenum ions on the structure of ZnO-As ₂ O ₃ -Sb ₂ O ₃ glass system by means of spectroscopic and dielectric studies. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1754-1761.	3.1	25
57	Influence of redox behavior of copper ions on dielectric and spectroscopic properties of Li ₂ O-MoO ₃ -B ₂ O ₃ : CuO glass system. <i>Solid State Sciences</i> , 2009, 11, 578-587.	3.2	115
58	The structural, optical, and dielectric spectroscopy studies of novel ZnO-As ₂ O ₃ glass system with Sb ₂ O ₃ as additive. <i>Physica B: Condensed Matter</i> , 2009, 404, 3898-3905.	2.7	14
59	Influence of chromium ions on dielectric and spectroscopic properties of Na ₂ O-PbO-B ₂ O ₃ glass system. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 2, 012028.	0.6	3
60	Dielectric dispersion and spectroscopic properties of NaF-SrO-B ₂ O ₃ glasses doped with V ₂ O ₅ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 2, 012021.	0.6	2
61	Dielectric properties of PbO-P ₂ O ₅ -As ₂ O ₃ glass system with Ga ₂ O ₃ as additive. <i>Solid State Communications</i> , 2008, 145, 401-406.	1.9	30
62	Structural role of In ₂ O ₃ in PbO-P ₂ O ₅ -As ₂ O ₃ glass system by means of spectroscopic and dielectric studies. <i>Journal of Alloys and Compounds</i> , 2007, 431, 303-312.	5.5	51
63	Molecular interactions in the mixtures of 2-chloroaniline with equimolar mixture of methanol and isopropanol/isobutanol. <i>Journal of Molecular Liquids</i> , 2007, 136, 90-93.	4.9	16
64	Influence of aluminium ions on physical properties of PbO-P ₂ O ₅ -As ₂ O ₃ glasses. <i>EPJ Applied Physics</i> , 2006, 34, 97-106.	0.7	19
65	Optical absorption and thermoluminescence studies on LiF-Sb ₂ O ₃ -B ₂ O ₃ glasses doped with Ni ²⁺ ions. <i>Journal of Luminescence</i> , 2006, 117, 53-60.	3.1	33
66	Studies on dielectric properties of LiF-Sb ₂ O ₃ -B ₂ O ₃ :CuO glass system. <i>Materials Chemistry and Physics</i> , 2005, 91, 381-390.	4.0	49
67	Magnetic properties of PbO-Sb ₂ O ₃ -As ₂ O ₃ glasses containing iron ions. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 284, 363-368.	2.3	24
68	The role of titanium ions on structural, dielectric and optical properties of Li ₂ O-MgO-B ₂ O ₃ glass system. <i>Materials Chemistry and Physics</i> , 2004, 87, 357-369.	4.0	68
69	Combined ³⁵ Cl and ⁷⁹ Br NQR Zeeman effect study in \hat{l} -bromo-p-chloroacetophenone. <i>Magnetic Resonance in Chemistry</i> , 1983, 21, 205-207.	0.7	6