D Krishna Rao

List of Publications by Year
in descending order

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69	1,571	279798	361022
papers	citations	23 h-index	35 g-index

69	69	69	937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of redox behavior of copper ions on dielectric and spectroscopic properties of Li2Oâ€“MoO3â€“B2O3: CuO glass system. Solid State Sciences, 2009, 11, 578-587.	3.2	115
2	Spectroscopic investigations on alkali earth bismuth borate glasses doped with CuO. Journal of Non-Crystalline Solids, 2011, 357, 836-841.	3.1	94
3	The role of titanium ions on structural, dielectric and optical properties of Li2Oâ€“MgOâ€“B2O3 glass system. Materials Chemistry and Physics, 2004, 87, 357-369.	4.0	68
4	Optical and other spectroscopic studies of lead, zinc bismuth borate glasses doped with CuO. Physica B: Condensed Matter, 2011, 406, 4366-4372.	2.7	65
5	Structural role of In2O3 in PbOâ€“P2O5â€“As2O3 glass system by means of spectroscopic and dielectric studies. Journal of Alloys and Compounds, 2007, 431, 303-312.	5.5	51
6	Studies on dielectric properties of LiFâ€“Sb2O3â€“B2O3:CuO glass system. Materials Chemistry and Physics, 2005, 91, 381-390.	4.0	49
7	Dielectric and Spectroscopic properties of CuO doped multi-component Li2OPbOB2O3SiO2Bi2O3Al2O3 glass system. Journal of Non-Crystalline Solids, 2013, 370, 21-30.	3.1	43
8	Influence of copper ions on thermoluminescence characteristics of CaF2â€“B2O3â€“P2O5 glass system. Ceramics International, 2014, 40, 3707-3713.	4.8	40
9	Dielectric dispersion and ac conduction phenomena of Li2Oâ^'Sb2O3â^'PbOâ^'GeO2:Cr2O3 glass system. Materials Science in Semiconductor Processing, 2015, 35, 96-108.	4.0	39
10	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
11	Investigation of luminescence and laser transition of Dy 3+ ion in P 2 O 5 PbO Bi 2 O 3 R 2 O 3 (RÂ=ÂAl, Ga,) Tj ETQq1 1 0.784314 rgBT	3.6	37
12	Spectroscopic and structural properties of Cr 3+ ions in lead niobium germanosilicate glasses. Journal of Luminescence, 2017, 183, 17-25.	3.1	37
13	Optical absorption and thermoluminescence studies on LiFâ€“Sb2O3â€“B2O3 glasses doped with Ni2+ ions. Journal of Luminescence, 2006, 117, 53-60.	3.1	33
14	The role of chromium ions on dielectric and spectroscopic properties of Li2Oâ€“PbOâ€“B2O3â€“P2O5 glasses. Journal of Non-Crystalline Solids, 2014, 398-399, 1-9.	3.1	33
15	Influence of molybdenum ions on spectroscopic and dielectric properties of ZnF2â€“Bi2O3â€“P2O5 glass ceramics. Journal of Non-Crystalline Solids, 2012, 358, 3372-3381.	3.1	31
16	Dielectric properties of PbOâ€“P2O5â€“As2O3 glass system with Ga2O3 as additive. Solid State Communications, 2008, 145, 401-406.	1.9	30
17	Effect of Bi2O3 proportion on physical, structural and electrical properties of zinc bismuth phosphate glasses. Journal of Non-Crystalline Solids, 2011, 357, 3585-3591.	3.1	29
18	Physical and spectroscopic properties of multi-component Na2Oâ€“PbOâ€“Bi2O3â€“SiO2 glass ceramics with Cr2O3 as nucleating agent. Optical Materials, 2015, 47, 315-322.	3.6	28

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19	Influence of molybdenum ions on the structure of ZnOâ€“As2O3â€“Sb2O3 glass system by means of spectroscopic and dielectric studies. Journal of Non-Crystalline Solids, 2010, 356, 1754-1761.	3.1	25
20	Influence of manganese ions on spectroscopic and dielectric properties of LiF-SrO-B2O3 glasses. Journal of Non-Crystalline Solids, 2012, 358, 1391-1398.	3.1	25
21	Magnetic properties of PbOâ€“Sb2O3â€“As2O3 glasses containing iron ions. Journal of Magnetism and Magnetic Materials, 2004, 284, 363-368.	2.3	24
22	Vanadyl ions influence on spectroscopic and dielectric properties of glass network. Journal of Molecular Structure, 2011, 1005, 83-90.	3.6	24
23	Structural impact of cobalt ions on BaBiBO4 glass system by means of spectroscopic and dielectric studies. Journal of Molecular Structure, 2013, 1033, 200-207.	3.6	24
24	Influence of modifier oxide on dielectric dispersion and a.c. conduction phenomena of Li2Oâ€“Sb2O3â€“GeO2 glass system. Journal of Non-Crystalline Solids, 2014, 386, 67-75.	3.1	24
25	Physical and spectroscopic features of cobalt ions in multi-component CaF2â€“ZnOâ€“Bi2O3â€“P2O5 glass ceramics. Journal of Alloys and Compounds, 2017, 699, 392-400.	5.5	24
26	Spectroscopic properties of RBiBO4 (R=Ca, Sr) glasses doped with TiO2. Journal of Molecular Structure, 2012, 1007, 168-174.	3.6	23
27	Role of chromium ion valence states in ZnOâ€“As2O3â€“Sb2O3 glass system by means of spectroscopic and dielectric studies. Materials Research Bulletin, 2010, 45, 1783-1791.	5.2	21
28	Characterization, optical and luminescence features of cobalt ions in multi-component PbO Al2O3TeO2GeO2SiO2 glass ceramics. Optical Materials, 2019, 88, 289-298.	3.6	21
29	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. Physica B: Condensed Matter, 2011, 406, 854-858.	2.7	20
30	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
31	Influence of aluminium ions on physical properties of PbO-P2O5-As2O3glasses. EPJ Applied Physics, 2006, 34, 97-106.	0.7	19
32	Influence of alkaline earth oxides (R=Ca, Sr and Ba) on spectroscopic and dielectric studies of iron doped ROâ€“Na2Oâ€“B2O3 glasses. Journal of Non-Crystalline Solids, 2013, 364, 62-68.	3.1	19
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	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
35	Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbOâ€“Al2O3â€“TeO2â€“GeO2â€“SiO2 glass ceramic system- a possible material for memory switching devices. Optical Materials, 2017, 73, 7-15.	3.6	19
36	Structural and electrical properties of ZnF2â€“Bi2O3â€“GeO2 glasses doped with CoO. Journal of Molecular Structure, 2012, 1014, 119-125.	3.6	18

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37	Influence of local structural disorders on spectroscopic properties of multi-component CaF2â€“Bi2O3â€“P2O5â€“B2O3 glass ceramics with Cr2O3 as nucleating agent. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 281-288.	3.9	18
38	Densities and Viscosities of Binary Mixtures of Propanoic Acid with N,N-Dimethylaniline and N,N-Diethylaniline at T = (303.15, 313.15, and 323.15) K. Journal of Chemical & Engineering Data, 2012, 57, 352-357.	1.9	17
39	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. Journal of Solution Chemistry, 2012, 41, 1088-1102.	1.2	17
40	Structural impact of iron ions on BaBiBO4 glasses: Spectroscopic and dielectric investigations. Journal of Non-Crystalline Solids, 2012, 358, 2597-2605.	3.1	17
41	Thermoacoustic, Volumetric, and Viscometric Investigations in Binary Liquid System of Cyclohexanone with Benzyl Benzoate at T = 308.15, 313.15, and 318.15â€‰K. Journal of Thermodynamics, 2014, 2014, 1-13.	0.8	17
42	Molecular interactions in the mixtures of 2-chloroaniline with equimolar mixture of methanol and isopropanol/isobutanol. Journal of Molecular Liquids, 2007, 136, 90-93.	4.9	16
43	Densities, viscosities, and excess properties for binary mixtures of ethylene glycol with amides at 308.15ÂK. Journal of Thermal Analysis and Calorimetry, 2014, 118, 475-483.	3.6	16
44	Influence of temperature on thermodynamic properties of acidâ€“base liquid mixtures. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1341-1352.	3.6	15
45	Effect of some VA group modifiers on R2O3 (R=Sb, Bi)â€“ZnF2â€“GeO2 glasses doped with CuO by means of spectroscopic and dielectric investigations. Materials Chemistry and Physics, 2012, 133, 239-248.	4.0	15
46	The structural, optical, and dielectric spectroscopy studies of novel ZnOâ€“As2O3 glass system with Sb2O3 as additive. Physica B: Condensed Matter, 2009, 404, 3898-3905.	2.7	14
47	Structural investigations of lead germanosilicate glasses doped with Nb2O5 by means of spectroscopic and dielectric studies. Journal of Molecular Structure, 2015, 1098, 181-190.	3.6	14
48	Structural changes in the ZnF2â€“Bi2O3â€“GeO2 glass system doped with Fe2O3 by spectroscopic and dielectric investigations. Journal of Physics and Chemistry of Solids, 2013, 74, 963-970.	4.0	13
49	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
50	Volumetric and Viscometric Properties of Propanoic Acid in Equimolar Mixtures of N,N-dimethyl FormamideÂ+ÂAlkanols at T/KÂ=Â303.15, 313.15, and 323.15. Journal of Solution Chemistry, 2013, 42, 494-515.	1.2	12
51	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
52	Spectroscopic features of copper ions in multi-component Na 2 O PbO Bi 2 O 3 SiO 2 glass ceramics. Journal of Molecular Structure, 2016, 1125, 624-632.	3.6	12
53	Effect of Cr2O3 on the structural, optical and dielectric studies of LiF-SrO-B2O3 glasses. Journal of Non-Crystalline Solids, 2019, 520, 119428.	3.1	12
54	Spectroscopic and dielectric investigations of tungsten ions doped zinc bismuth phosphate glass-ceramics. Journal of Molecular Structure, 2013, 1036, 452-463.	3.6	11

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55	Influence of Ga3+ 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
56	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
57	Molybdenum ion: a structural probe in lithiumâ€“antimonyâ€“germanate glass system by means of dielectric and spectroscopic studies. Journal of Materials Science, 2014, 49, 6203-6216.	3.7	7
58	Influence of Bi3+ ions on optical and luminescence properties of multi- component P2O5â”€PbOâ”€Ga2O3 â”€Pr2O3 glass system. Optical Materials, 2018, 77, 178-186.	3.6	7
59	Combined35Cl and79Br NQR Zeeman effect study in Î±-bromo-p-chloroacetophenone. Magnetic Resonance in Chemistry, 1983, 21, 205-207.	0.7	6
60	Assessment of role of iron ions on the physical and spectroscopic properties of multi-component Na₂Oâˆ’PbOâˆ’Bi₂O₃â€“SiO₂ glass ceramics. Phase Transitions, 2018, 91, 92-107.	1.3	5
61	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
62	Electrical and spectroscopic studies on ZnO-As2O3-Sb2O3 glasses doped with Y2O3. Materials Today: Proceedings, 2018, 5, 26356-26364.	1.8	4
63	Influence of chromium ions on dielectric and spectroscopic properties of Na2O-PbO-B2O3glass system. IOP Conference Series: Materials Science and Engineering, 2009, 2, 012028.	0.6	3
64	Acoustic and Volumetric Properties of Mixture of (N,N-Dimethylacetamide + Ethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Thermodynamics, 2014, 2014, 1-9.	0.8	3
65	Dielectric dispersion and spectroscopic properties of NaF-SrO-B2O3glasses doped with V2O5. IOP Conference Series: Materials Science and Engineering, 2009, 2, 012021.	0.6	2
66	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
67	Characterization and spectroscopic studies of multi-component calcium zinc bismuth phosphate glass ceramics doped with iron ions. AIP Conference Proceedings, 2018, , .	0.4	0
68	Structural and spectroscopic investigations of multiâ€“component P2O5â”€PbO â”€Ga2O3â”€Dy2O3â”€Bi2O3 glass system: An insight to the energy transfer between Bi3+ and Dy3+ ions. AIP Conference Proceedings, 2019, , .	0.4	0
69	Influence of valence state of vanadium ions on structural and spectroscopic features of multi-component PbOâ€“Al2O3â€“TeO2â€“GeO2Ââ€“SiO2 glass ceramics. AIP Conference Proceedings, 2019, , .	0.4	0