S Murugavel

List of Publications by Year
in descending order

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31 papers	920 citations	471509 17 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	896 citing authors

#	Article	IF	Citations
1	Understanding the electrode polarization in bismuth zinc vanadate semiconducting glasses from dielectric spectroscopy: A new insight on electrode polarization effect. Journal of Non-Crystalline Solids, 2021, 574, 121174.	3.1	7
2	Thermal, structural, and defect studies on Pb modified Ge Se glasses. Journal of Non-Crystalline Solids, 2017, 460, 146-152.	3.1	6
3	Zinc chloride modified electronic transport and relaxation studies in barium-tellurite glasses. Electronic Materials Letters, 2017, 13, 412-419.	2.2	8
4	Investigations on the structure of Pb-Ge-Se glasses. AIP Conference Proceedings, 2016, , .	0.4	1
5	Electrical conductivity and modulus formulation in zinc modified bismuth boro-tellurite glasses. Indian Journal of Physics, 2016, 90, 1033-1040.	1.8	19
6	Conductivity and modulus formulation in lithium modified bismuth zinc borate glasses. Solid State Sciences, 2016, 55, 98-105.	3.2	14
7	Temperature and frequency dependent conductivity and electric modulus formulation of manganese modified bismuth silicate glasses. Journal of Non-Crystalline Solids, 2015, 423-424, 1-8.	3.1	46
8	Structural, optical, electrical, and magnetic properties of Zn_{0.7}Mn_xNi_{0.3â”x}O nanoparticles synthesized by solâ€“gel technique. Cogent Physics, 2015, 2, 1055623.	0.7	16
9	Investigation of the intrinsic magnetodielectric effect in La₂CoMnO₆: role of magnetic disorder. Journal of Materials Chemistry C, 2015, 3, 836-843.	5.5	62
10	Electronic transport and relaxation studies in bismuth modified zinc boro-tellurite glasses. Solid State Sciences, 2015, 48, 230-236.	3.2	23
11	Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system. Journal of Molecular Structure, 2015, 1079, 189-193.	3.6	28
12	Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system. Indian Journal of Physics, 2014, 88, 1169-1173.	1.8	17
13	Conduction mechanism in bismuth silicate glasses containing titanium. Physica B: Condensed Matter, 2014, 452, 102-107.	2.7	45
14	Temperature and frequency dependent conductivity of bismuth zinc vanadate semiconducting glassy system. Journal of Applied Physics, 2012, 112, .	2.5	88
15	Physical, Optical and Structural Properties of xLi2O-(50â€“x)Bi2O3-10ZnO-40B2O3Glasses. Transactions of the Indian Ceramic Society, 2012, 71, 225-228.	1.0	5
16	Hopping conduction in bismuth modified zinc vanadate glasses: An applicability of Mott's model. Journal of Applied Physics, 2012, 112, .	2.5	40
17	Structural study on amorphous and crystalline state of phase change material. Journal of Applied Physics, 2011, 110, .	2.5	59
18	Ion Transport Mechanism in Glasses: Non-Arrhenius Conductivity and Nonuniversal Features. Journal of Physical Chemistry B, 2010, 114, 13381-13385.	2.6	23

#	Article	IF	Citations
19	Thermal diffusivities and molar volumes of ternary Al20 AsxTe80â^'x alloy glasses: evidence of self-organization. Solid State Communications, 2005, 135, 323-326.	1.9	14
20	Origin of non-Arrhenius conductivity in fast ion conducting glasses. Physical Review B, 2005, 72, .	3.2	13
21	Cation diffusion and ionic conductivity in soda-lime silicate glasses. Physical Chemistry Chemical Physics, 2005, 7, 2279.	2.8	64
22	Murugavel and Roling Reply:. Physical Review Letters, 2003, 91, .	7.8	6
23	ac Conductivity Spectra of Alkali Tellurite Glasses: Composition-Dependent Deviations from the Summerfield Scaling. Physical Review Letters, 2002, 89, 195902.	7.8	96
24	Composition dependence of photoconductivity of Al20AsxTe80â^'x glasses. Journal of Non-Crystalline Solids, 2002, 303, 296-298.	3.1	10
25	Absence of Germanate Anomaly in Ternary Lithium Germanophosphate Glasses:â€‰ Modification Behavior of Mixed Glass System of Strong and Fragile Formers. Journal of Physical Chemistry B, 2001, 105, 5862-5873.	2.6	31
26	Composition dependence of electrical properties of Alâ€“Te glasses. Journal of Non-Crystalline Solids, 1999, 249, 145-149.	3.1	11
27	Composition tunable memory and threshold switching in Al₂₀As_xTe_{80â^'x} semiconducting glasses. Journal of Materials Research, 1998, 13, 2982-2987.	2.6	40
28	Local structure and electrical switching in chalcogenide glasses. Physical Review B, 1998, 58, 3022-3025.	3.2	43
29	Carrier-type reversal in Pb-modified chalcogenide glasses. Physical Review B, 1998, 58, 4449-4453.	3.2	35
30	Al coordination in bulkAlxTe1â^'xglasses from solid-state NMR. Physical Review B, 1998, 57, 33-36.	3.2	16
31	Origin of Carrier-Type Reversal in Pbâ^'Geâ^'Se Glasses:Â A Detailed Thermal, Electrical, and Structural StudyÂ§. Journal of Physical Chemistry B, 1997, 101, 9717-9726.	2.6	34