

# 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	ac Conductivity Spectra of Alkali Tellurite Glasses: Composition-Dependent Deviations from the Summerfield Scaling. <i>Physical Review Letters</i> , 2002, 89, 195902.	7.8	96
2	Temperature and frequency dependent conductivity of bismuth zinc vanadate semiconducting glassy system. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	88
3	Cation diffusion and ionic conductivity in soda-lime silicate glasses. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2279.	2.8	64
4	Investigation of the intrinsic magnetodielectric effect in $\text{La}_{2}\text{CoMnO}_{6}$ : role of magnetic disorder. <i>Journal of Materials Chemistry C</i> , 2015, 3, 836-843.	5.5	62
5	Structural study on amorphous and crystalline state of phase change material. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	59
6	Temperature and frequency dependent conductivity and electric modulus formulation of manganese modified bismuth silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 423-424, 1-8.	3.1	46
7	Conduction mechanism in bismuth silicate glasses containing titanium. <i>Physica B: Condensed Matter</i> , 2014, 452, 102-107.	2.7	45
8	Local structure and electrical switching in chalcogenide glasses. <i>Physical Review B</i> , 1998, 58, 3022-3025.	3.2	43
9	Composition tunable memory and threshold switching in $\text{Al}_{20}\text{As}_{x}\text{Te}_{80-x}$ semiconducting glasses. <i>Journal of Materials Research</i> , 1998, 13, 2982-2987.	2.6	40
10	Hopping conduction in bismuth modified zinc vanadate glasses: An applicability of Mott's model. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	40
11	Carrier-type reversal in Pb-modified chalcogenide glasses. <i>Physical Review B</i> , 1998, 58, 4449-4453.	3.2	35
12	Origin of Carrier-Type Reversal in $\text{Pb}^{\delta+}\text{Ge}^{\delta-}\text{Se}$ Glasses: A Detailed Thermal, Electrical, and Structural Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9717-9726.	2.6	34
13	Absence of Germanate Anomaly in Ternary Lithium Germanophosphate Glasses: Modification Behavior of Mixed Glass System of Strong and Fragile Formers. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5862-5873.	2.6	31
14	Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system. <i>Journal of Molecular Structure</i> , 2015, 1079, 189-193.	3.6	28
15	Ion Transport Mechanism in Glasses: Non-Arrhenius Conductivity and Nonuniversal Features. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13381-13385.	2.6	23
16	Electronic transport and relaxation studies in bismuth modified zinc boro-tellurite glasses. <i>Solid State Sciences</i> , 2015, 48, 230-236.	3.2	23
17	Electrical conductivity and modulus formulation in zinc modified bismuth boro-tellurite glasses. <i>Indian Journal of Physics</i> , 2016, 90, 1033-1040.	1.8	19
18	Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system. <i>Indian Journal of Physics</i> , 2014, 88, 1169-1173.	1.8	17

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19	Al coordination in bulk $\text{Al}_x\text{Te}_{1-x}$ glasses from solid-state NMR. <i>Physical Review B</i> , 1998, 57, 33-36.	3.2	16
20	Structural, optical, electrical, and magnetic properties of $\text{Zn}_{0.7}\text{Mn}_x\text{Ni}_{0.3-x}\text{O}$ nanoparticles synthesized by sol-gel technique. <i>Cogent Physics</i> , 2015, 2, 1055623.	0.7	16
21	Thermal diffusivities and molar volumes of ternary $\text{Al}_2\text{O}_3\text{As}_x\text{Te}_{80-x}$ alloy glasses: evidence of self-organization. <i>Solid State Communications</i> , 2005, 135, 323-326.	1.9	14
22	Conductivity and modulus formulation in lithium modified bismuth zinc borate glasses. <i>Solid State Sciences</i> , 2016, 55, 98-105.	3.2	14
23	Origin of non-Arrhenius conductivity in fast ion conducting glasses. <i>Physical Review B</i> , 2005, 72, .	3.2	13
24	Composition dependence of electrical properties of $\text{Al}_x\text{Te}$ glasses. <i>Journal of Non-Crystalline Solids</i> , 1999, 249, 145-149.	3.1	11
25	Composition dependence of photoconductivity of $\text{Al}_2\text{O}_3\text{As}_x\text{Te}_{80-x}$ glasses. <i>Journal of Non-Crystalline Solids</i> , 2002, 303, 296-298.	3.1	10
26	Zinc chloride modified electronic transport and relaxation studies in barium-tellurite glasses. <i>Electronic Materials Letters</i> , 2017, 13, 412-419.	2.2	8
27	Understanding the electrode polarization in bismuth zinc vanadate semiconducting glasses from dielectric spectroscopy: A new insight on electrode polarization effect. <i>Journal of Non-Crystalline Solids</i> , 2021, 574, 121174.	3.1	7
28	Murugavel and Roling Reply:. <i>Physical Review Letters</i> , 2003, 91, .	7.8	6
29	Thermal, structural, and defect studies on Pb modified Ge Se glasses. <i>Journal of Non-Crystalline Solids</i> , 2017, 460, 146-152.	3.1	6
30	Physical, Optical and Structural Properties of $x\text{Li}_2\text{O}-(50-x)\text{Bi}_2\text{O}_3-10\text{ZnO}-40\text{B}_2\text{O}_3$ Glasses. <i>Transactions of the Indian Ceramic Society</i> , 2012, 71, 225-228.	1.0	5
31	Investigations on the structure of Pb-Ge-Se glasses. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1