

# Anindya Sundar Das

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

288  
citations

759233

12  
h-index

940533

16  
g-index

24  
all docs

24  
docs citations

24  
times ranked

143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of samarium content on structural, thermal, linear and non-linear optical properties of ZnO–TeO <sub>2</sub> –P <sub>2</sub> O <sub>5</sub> glasses. <i>Materials Chemistry and Physics</i> , 2020, 255, 123561.	4.0	32
2	Investigation of Ac conductivity mechanism and dielectric relaxation of semiconducting neodymium-vanadate nanocomposites: temperature and frequency dependency. <i>Materials Research Express</i> , 2019, 6, 075206.	1.6	25
3	Structural characterization and electrical conductivity analysis of MoO <sub>3</sub> –SeO <sub>2</sub> –ZnO semiconducting glass nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2019, 515, 21-33.	3.1	21
4	Investigation of microstructural, optical, physical properties and dielectric relaxation process of sulphur incorporated selenium–tellurium ternary glassy systems. <i>Materials Chemistry and Physics</i> , 2021, 257, 123793.	4.0	19
5	Lithium ion conductivity in Li <sub>2</sub> O–P <sub>2</sub> O <sub>5</sub> –ZnO glass-ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 786, 707-716.	5.5	18
6	Structural properties and electrical conductivity mechanisms of semiconducting quaternary nanocomposites: Effect of two transition metal oxides. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 144, 109505.	4.0	17
7	Defects characterization and study of amorphous phase formation in xV <sub>2</sub> O <sub>5</sub> –(1-x)Nd <sub>2</sub> O <sub>3</sub> binary glass nanocomposites using positron annihilation and correlated experimental techniques. <i>Journal of Alloys and Compounds</i> , 2018, 753, 748-760.	5.5	16
8	An investigation of S–Se–Te semiconducting glassy alloys: Structural characterization and electrical conductivity. <i>Journal of Non-Crystalline Solids</i> , 2019, 510, 101-111.	3.1	16
9	Investigation of optical properties and electrical conductivity mechanism of Fe <sub>2</sub> O <sub>3</sub> –Sm <sub>2</sub> O <sub>3</sub> –ZnO–P <sub>2</sub> O <sub>5</sub> quaternary glass nanocomposite systems. <i>Materialia</i> , 2021, 15, 100963.	2.7	15
10	Study of microstructure and electrical conduction mechanisms of quaternary semiconducting glassy systems: Effect of mixed modifiers. <i>Journal of Non-Crystalline Solids</i> , 2020, 542, 120104.	3.1	15
11	Structural defects characterization of silver-phosphate glass nanocomposites by positron annihilation and related experimental studies. <i>Materials Characterization</i> , 2019, 158, 109928.	4.4	14
12	Identification of defects in the transition metal oxide-doped glass nanocomposite xV <sub>2</sub> O <sub>5</sub> –(1-x)(0.05MoO <sub>3</sub> –0.95ZnO) using positron annihilation spectroscopy and other techniques. <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 52-62.	3.1	12
13	Investigation of microstructure and temperature and frequency dependent dielectric relaxation of Molybdenum-zinc-selenite glass nanocomposite systems. <i>Materials Research Express</i> , 2019, 6, 115205.	1.6	9
14	Compositional dependence of structural, physical, and, in particular, optical parameters of Se <sub>50</sub> –Te <sub>30</sub> Sn <sub>20</sub> Sb chalcogenide glassy systems. <i>Materials Chemistry and Physics</i> , 2021, 274, 125153.	4.0	9
15	The effect of transition metal and heavy metal incorporation on the structural, optical and electrical properties of zinc-phosphate ternary glassy system: A comparative study. <i>Materials Chemistry and Physics</i> , 2022, 278, 125672.	4.0	9
16	Investigations of Microstructure and Dc Conductivity of V <sub>2</sub> O <sub>5</sub> –Nd <sub>2</sub> O <sub>3</sub> Glass Nanocomposites. <i>ChemistrySelect</i> , 2017, 2, 11273-11280.	1.5	7
17	Positron annihilation and correlated dielectric property studies of a transition metal oxide-modified quaternary nanocomposite 0.1P <sub>2</sub> O <sub>5</sub> –0.4ZnO–0.5(xV <sub>2</sub> O <sub>5</sub> –(1–x)MoO <sub>3</sub> ). <i>Journal of Alloys and Compounds</i> , 5.5 2021, 864, 158395.		7
18	Structural and Optical Properties of V <sub>2</sub> O <sub>5</sub> -MoO <sub>3</sub> -ZnO Glass-Nanocomposite System. <i>Transactions of the Indian Ceramic Society</i> , 2016, 75, 120-125.	1.0	5

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19	Effect of Zn incorporation on physical properties of quaternary $0.7\text{Se}^{1-x}\text{Ge}^x(0.1-x)\text{Sb}^{1-x}\text{Zn}^x$ chalcogenide system: A theoretical prediction. <i>Physica B: Condensed Matter</i> , 2021, 612, 412896.	2.7	5
20	Influence of $\text{V}_2\text{O}_5$ concentration on structural and electrical transport properties of semiconducting ternary glass and glass-ceramics nanocomposite system. <i>Journal of Non-Crystalline Solids</i> , 2022, 589, 121659.	3.1	5
21	Study of mixed modifier effect on dielectric and optical properties of zinc-phosphate based ternary and quaternary nanocomposite systems. <i>Journal of Non-Crystalline Solids</i> , 2022, 591, 121701.	3.1	5
22	Consequence of the heat-treatment on the ionic conductivity of silver-tellurite glass nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2019, 506, 51-57.	3.1	3
23	Structural evolution of zinc selenite nanocomposite system with molybdenum trioxide as modifier studied by positron annihilation and allied experimental methods. <i>Materialia</i> , 2021, 15, 100969.	2.7	2
24	Microstructure and defects of $0.1\text{P}_2\text{O}_5^{1-x}\text{ZnO}^x0.25(x\text{TeO}_2^{1-x})\text{MoO}_3$ quaternary glass nanocomposites using positron annihilation and correlated experimental methods. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 163, 110598.	4.0	2