

Dipankar Chakravorty

List of Publications by Year in descending order

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69
papers

947
citations

471509

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552781

26
g-index

70
all docs

70
docs citations

70
times ranked

1237
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Synthesis of nanocrystalline YFeO ₃ and its magnetic properties. Journal of Magnetism and Magnetic Materials, 2009, 321, 3274-3277. | 2.3 | 89 |
| 2 | Template based growth of nanoscaled films: a brief review. Indian Journal of Physics, 2011, 85, 649-666. | 1.8 | 53 |
| 3 | Magnetodielectric Effect in Graphene-PVA Nanocomposites. Journal of Physical Chemistry C, 2011, 115, 14285-14289. | 3.1 | 39 |
| 4 | Reduced graphene oxide synthesis by high energy ball milling. Materials Chemistry and Physics, 2015, 161, 123-129. | 4.0 | 34 |
| 5 | Multiferroic behaviour of nanoporous BaTiO ₃ . Journal of Applied Physics, 2011, 110, . | 2.5 | 32 |
| 6 | Electrical and magnetic properties of cold compacted iron-doped zinc sulfide nanoparticles synthesized by wet chemical method. Chemical Physics Letters, 2007, 444, 319-323. | 2.6 | 30 |
| 7 | Surface optical Raman modes in GaN nanoribbons. Journal of Raman Spectroscopy, 2011, 42, 429-433. | 2.5 | 30 |
| 8 | NiO Nanoparticle Synthesis Using a Triblock Copolymer: Enhanced Magnetization and High Specific Capacitance of Electrodes Prepared from the Powder. ACS Omega, 2017, 2, 283-289. | 3.5 | 28 |
| 9 | Magnetic and dielectric properties of sol-gel derived nanoparticles of double perovskite Y ₂ NiMnO ₆ . Journal of Applied Physics, 2012, 112, . | 2.5 | 27 |
| 10 | A brief review on graphene/inorganic nanostructure composites: materials for the future. Indian Journal of Physics, 2016, 90, 1019-1032. | 1.8 | 27 |
| 11 | Wet chemical route to transparent BiFeO ₃ films on SiO ₂ substrates. Thin Solid Films, 2010, 518, 4071-4075. | 1.8 | 24 |
| 12 | Large magnetodielectric effect and negative magnetoresistance in NiO nanoparticles at room temperature. RSC Advances, 2020, 10, 13708-13716. | 3.6 | 23 |
| 13 | Exchange bias in ferrimagnetic-antiferromagnetic nanocomposite produced by mechanical attrition. Journal of Magnetism and Magnetic Materials, 2009, 321, 2269-2275. | 2.3 | 22 |
| 14 | Multiferroic behavior in silicate glass nanocomposite having a core-shell microstructure. Journal of Non-Crystalline Solids, 2009, 355, 2254-2259. | 3.1 | 22 |
| 15 | Tunneling conduction in graphene/(poly)vinyl alcohol composite. Journal of Applied Physics, 2013, 113, . | 2.5 | 20 |
| 16 | Nanoglass in lithia-silica system grown within pores of pellets comprising CuO nanoparticles. Solid State Ionics, 2011, 186, 14-19. | 2.7 | 19 |
| 17 | Resistivity Hysteresis of Ag ₂ S Nanocomposites. Journal of Physical Chemistry C, 2007, 111, 13410-13413. | 3.1 | 18 |
| 18 | Magnetodielectric effect in Ni ⁵⁺ Zn ⁵⁺ Fe ₂ O ₄ -BaTiO ₃ nanocomposites. Bulletin of Materials Science, 2014, 37, 497-504. | 1.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Synthesis of multilayered structure of nano-dimensional silica glass/reduced graphene oxide for advanced electrochemical applications. <i>Nanoscale</i> , 2018, 10, 5539-5549. | 5.6 | 18 |
| 20 | Enhancement of ionic conductivity in Li ₂ O-SiO ₂ glass in nanodimensions grown within pellets of ZnO nanorods and magnetodielectric properties of these nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2013, 376, 12-17. | 3.1 | 17 |
| 21 | Nanostructured Multiferroics. <i>Transactions of the Indian Ceramic Society</i> , 2011, 70, 53-64. | 1.0 | 16 |
| 22 | 1,4-bis(4-vinylphenyl)-1,5-crown-5 Functionalized Graphene Oxide for 2D Graphene-Based Li ⁺ Ion Conductor. <i>ACS Nano</i> , 2015, 11, 3451-3457. | 10.0 | 16 |
| 23 | Giant Dielectric Constant of Copper Nanowires/Amorphous SiO ₂ Composite Thin Films for Supercapacitor Application. <i>ACS Omega</i> , 2020, 5, 12421-12430. | 3.5 | 16 |
| 24 | Growth of two-dimensional GaN in Na-4 mica nanochannels. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 235504. | 2.8 | 15 |
| 25 | Magnetodielectric effect in Co ₃ O ₄ nanoparticles grown within a silica glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 864-867. | 2.3 | 14 |
| 26 | Observation of spin-glass behavior in nickel adsorbed few layer graphene. <i>Journal of Applied Physics</i> , 2013, 113, 024307. | 2.5 | 14 |
| 27 | Studies on nanoconfinement effect of NiO-SiO ₂ spin glass within mesoporous Al ₂ O ₃ template. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161447. | 5.5 | 14 |
| 28 | Magnetodielectric effect in nickel nanosheet-Na-4 mica composites. <i>Europhysics Letters</i> , 2010, 92, 26003. | 2.0 | 13 |
| 29 | Giant magnetodielectric effect in composites of nanodimensional spin glass of system CoO-SiO ₂ and mesoporous silica SBA-15. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 491, 165633. | 2.3 | 13 |
| 30 | Fast Ion Conduction in Nanodimensional Lithium Silicate Glasses. <i>Journal of Physical Chemistry C</i> , 2016, 120, 431-436. | 3.1 | 12 |
| 31 | Giant dielectric permittivity in interrupted silver nanowires grown within mesoporous silica. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 245301. | 2.8 | 12 |
| 32 | Multifunctional behaviour of mesoporous LiNbO ₃ . <i>Journal of Applied Physics</i> , 2012, 111, . | 2.5 | 11 |
| 33 | Effect of Microstructure on Ionic Transport in Silica-Based Sodium Containing Nanoconfined Systems and Their Electrochemical Performance as Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21155-21169. | 3.1 | 11 |
| 34 | Composites of nanodimensional glass in the system Na ₂ O-SiO ₂ /Mesoporous silica and their high ionic conductivity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 142, 109470. | 4.0 | 11 |
| 35 | Crossover of positive and negative magnetoconductance in composites of nanosilica glass containing dual transition metal oxides. <i>RSC Advances</i> , 2021, 11, 16106-16121. | 3.6 | 11 |
| 36 | Magnetodielectric behaviour of composites of NiO-SiO ₂ nanoglass and mesoporous silica SBA-15. <i>Journal of Non-Crystalline Solids</i> , 2021, 569, 120997. | 3.1 | 11 |

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|----|---|-----|-----------|
| 37 | Giant magnetocapacitance effect in nickel zinc ferrite impregnated mesoporous silica. <i>Materials Letters</i> , 2012, 79, 65-68. | 2.6 | 9 |
| 38 | Synthesis of lithium superionic conductor by growth of a nanoglass within mesoporous silica SBA-15 template. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 135301. | 2.8 | 9 |
| 39 | Riceâ€“Bernasconi Gorkovâ€“Eliashberg Effect of Giant Dielectric Permittivity in Silica-Based Films Containing Interrupted Silver Nanowires. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 1963-1969. | 1.5 | 9 |
| 40 | Magnetodielectric properties of nanodisc bismuth ferrite grown within Na-4 mica nanochannels. <i>Journal of Applied Physics</i> , 2010, 108, . | 2.5 | 8 |
| 41 | Magnetodielectric effect in composites of nanodimensional glass and CuO nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4073-4077. | 2.3 | 8 |
| 42 | Multiferroic properties of NiS nanoplates grown within Na-4 mica. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2861-2865. | 2.3 | 8 |
| 43 | Enhancement of electrical conductivity in CoO-SiO ₂ nanoglasses and large magnetodielectric effect in ZnO-nanoglass composites. <i>Journal of Applied Physics</i> , 2015, 117, . | 2.5 | 8 |
| 44 | Ferromagnetic Behavior of Ultrathin Manganese Nanosheets. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14673-14677. | 3.1 | 7 |
| 45 | Magnetodielectric effect in CdS nanosheets grown within Na-4 mica. <i>Journal of Applied Physics</i> , 2012, 111, 074303. | 2.5 | 7 |
| 46 | Multiphonon scattering and photoluminescence of two dimensional ZnS nanosheets grown within Na-4 mica. <i>Journal of Applied Physics</i> , 2012, 112, . | 2.5 | 7 |
| 47 | Epichlorohydrin functionalized graphene oxide for superior Li ⁺ ion conduction and supercapacitor application. <i>Materials Chemistry and Physics</i> , 2019, 223, 447-455. | 4.0 | 7 |
| 48 | Synthesis of two-dimensional metallic silver using sodium beta-alumina crystal channels. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1448-1452. | 3.1 | 6 |
| 49 | Exchange bias effect in nickel zinc ferriteâ€“mesoporous silica nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 332, 98-102. | 2.3 | 6 |
| 50 | Magnetodielectric effect of CuO grown within highly ordered two dimensional mesoporous silica template SBA 15. <i>Journal of Applied Physics</i> , 2012, 112, 074310. | 2.5 | 5 |
| 51 | Exchange bias effect in composites of cuo nanoparticles and nanosilica glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 184-187. | 2.3 | 5 |
| 52 | Ferromagnetic-Like Behavior in Nanosilica Glass Containing Iron Ions and Giant Magnetodielectric Effect in Composites of these Glasses with Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21679-21684. | 3.1 | 4 |
| 53 | Large magnetodielectric effect in nickel zinc ferriteâ€“lithium niobate nanocomposite. <i>Chemical Physics Letters</i> , 2012, 541, 96-100. | 2.6 | 4 |
| 54 | Stimuli-responsive coating by simple physical blending route. <i>Ceramics International</i> , 2021, 47, 26357-26365. | 4.8 | 4 |

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|----|---|-----|-----------|
| 55 | Multiferroic behavior in glass/crystal nanocomposites containing Te ₂ NiMnO ₆ . Journal of Alloys and Compounds, 2011, 509, 6056-6060. | 5.5 | 3 |
| 56 | Ionic conductivity of sodium silicate glasses grown within confined volume of mesoporous silica template. AIP Conference Proceedings, 2018, , . | 0.4 | 3 |
| 57 | Metal-semiconductor nanojunctions and their rectification characteristics. Bulletin of Materials Science, 2009, 32, 227-230. | 1.7 | 2 |
| 58 | Multifunctional Mesoporous Nanocomposites. Materials Science Forum, 2012, 736, 98-119. | 0.3 | 2 |
| 59 | Enhanced magnetic anisotropy of nickel nanosheet prepared in Na-4 mica. Journal of Magnetism and Magnetic Materials, 2012, 324, 2452-2457. | 2.3 | 2 |
| 60 | Large magnetodielectric effect in composites of Fe ₂ O ₃ -SiO ₂ nanoglass and mesoporous silica. Journal Physics D: Applied Physics, 2016, 49, 255001. | 2.8 | 2 |
| 61 | Piezomagnetic behaviour in \pm -Fe ₂ O ₃ nanofilms grown within nanochannels of Na-4 mica. Journal of Magnetism and Magnetic Materials, 2016, 402, 64-68. | 2.3 | 2 |
| 62 | Enhanced ionic conduction in nanodimensional lithium borosilicate glass confined within mesoporous alumina. AIP Conference Proceedings, 2020, , . | 0.4 | 2 |
| 63 | Room temperature magnetodielectric effect in composites of cobalt containing silica based nanoglass and mesoporous alumina. AIP Conference Proceedings, 2020, , . | 0.4 | 2 |
| 64 | Multiferroic Behavior in Composites of Nickel-Exchanged Glass Containing Nanoparticles of Barium Titanate. Journal of the American Ceramic Society, 2011, 94, 3006-3011. | 3.8 | 1 |
| 65 | Synthesis and Raman studies of wurtzite CdS nanosheets. , 2012, , . | | 1 |
| 66 | Magneto-dielectric effect in Pb(Zr _{0.52} Ti _{0.48})O ₃ filled nanoporous Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ composite. Bulletin of Materials Science, 2012, 35, 919-924. | 1.7 | 1 |
| 67 | Study of dielectric relaxation process in nanocomposite of Li ₂ O-SiO ₂ nanoglass-CuO nanoparticles. , 2014, , . | | 1 |
| 68 | Na ⁺ ion migration on the surface of reduced graphene oxide. Journal Physics D: Applied Physics, 2018, 51, 325301. | 2.8 | 1 |
| 69 | Large ionic conductivity and relaxation studies of lithium silicate nanoglasses grown into TiO ₂ nanoparticles. Journal of Non-Crystalline Solids, 2020, 544, 120175. | 3.1 | 1 |