

# Subray V Bhat

## List of Publications by Year in descending order

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180  
papers

3,597  
citations

186265

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185  
docs citations

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times ranked

3788  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Tuning the bandgap of ZnO by substitution with Mn <sup>2+</sup> , Co <sup>2+</sup> and Ni <sup>2+</sup> . Solid State Communications, 2005, 135, 345-347.   | 1.9 | 206       |
| 2  | ZnO/Ag nanohybrid: synthesis, characterization, synergistic antibacterial activity and its mechanism. RSC Advances, 2012, 2, 930-940.   | 3.6 | 169       |
| 3  |   | 3.0 | 155       |
| 4  | Suppression of charge order, disappearance of antiferromagnetism, and emergence of ferromagnetism in Nd <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> nanoparticles. Physical Review B, 2006, 74, .                               | 3.2 | 145       |
| 5  | A Study of Mn <sup>2+</sup> +Doping in CdS Nanocrystals. Chemistry of Materials, 2007, 19, 3252-3259.   | 6.7 | 138       |
| 6  | Absorption of electromagnetic radiation by superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : an oxygen-induced phenomenon. Journal of Physics C: Solid State Physics, 1987, 20, L559-L563.                            | 1.5 | 134       |
| 7  | Effect of sintering temperature on electrical transport properties of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> . Physica B: Condensed Matter, 2005, 357, 370-379.   | 2.7 | 122       |
| 8  | Weakening of charge order and antiferromagnetic to ferromagnetic switch over in Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> nanowires. Applied Physics Letters, 2005, 87, 182503.  | 3.3 | 115       |
| 9  | On the analysis of broad Dysonian electron paramagnetic resonance spectra. Journal of Magnetic Resonance, 2004, 168, 284-287.   | 2.1 | 106       |
| 10 | Temperature-dependent electron paramagnetic resonance studies of charge-ordered Nd <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . Physical Review B, 2001, 65, .   | 3.2 | 93        |
| 11 | Investigating thermal stability of structural defects and its effect on d ferromagnetism in undoped SnO <sub>2</sub> . Journal of Applied Physics, 2013, 113, .   | 2.5 | 82        |
| 12 | Morphology and conductivity studies of a new solid polymer electrolyte: (PEG) <sub>x</sub> LiClO <sub>4</sub> . Bulletin of Materials Science, 2003, 26, 707-714.   | 1.7 | 81        |
| 13 | ESR evidence for 2 coexisting liquid phases in deeply supercooled bulk water. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11448-11453.  | 7.1 | 71        |
| 14 | Vitrification and Glass Transition of Water: Insights from Spin Probe ESR. Physical Review Letters, 2005, 95, 235702.   | 7.8 | 68        |
| 15 | Tuning of dielectric properties and magnetism of SrTiO <sub>3</sub> by site-specific doping of Mn. Physical Review B, 2011, 84, .   | 3.2 | 67        |
| 16 | Increased lithium-ion conductivity in (PEG) <sub>46</sub> LiClO <sub>4</sub> solid polymer electrolyte with $\gamma$ -Al <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Power Sources, 2004, 129, 280-287.                     | 7.8 | 61        |
| 17 | Graphene scavenges free radicals to synergistically enhance structural properties in a gamma-irradiated polyethylene composite through enhanced interfacial interactions. Physical Chemistry Chemical Physics, 2015, 17, 22900-22910. | 2.8 | 49        |
| 18 | Molecular ferromagnetism in C <sub>60</sub> -TDAE. Solid State Communications, 1993, 85, 971-974.   | 1.9 | 46        |

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|----|---|-----|-----------|
| 19 | An EPR study of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and related high-temperature superconductors. Pramana - Journal of Physics, 1987, 28, L425-L427.  | 1.8 | 43        |
| 20 | Magnetization, magnetotransport and electron magnetic resonance studies of nanoparticles and nanowires of Pr <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> . Journal Physics D: Applied Physics, 2009, 42, 075004.                      | 2.8 | 41        |
| 21 | New insights of superoxide dismutase inhibition of pyrogallol autoxidation. Molecular and Cellular Biochemistry, 2015, 400, 277-285.  | 3.1 | 41        |
| 22 | Studies on a nanocomposite solid polymer electrolyte with hydrotalcite as a filler. Solid State Ionics, 2010, 181, 964-970.   | 2.7 | 40        |
| 23 | Optical and Magnetic Properties of Manganese-Doped Zinc Sulfide Nanoclusters. Journal of Nanoscience and Nanotechnology, 2003, 3, 392-400.  | 0.9 | 39        |
| 24 | VTF to Arrhenius crossover in temperature dependence of conductivity in (PEG) <sub>x</sub> NH <sub>4</sub> ClO <sub>4</sub> polymer electrolyte. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 1201-1209.                  | 2.1 | 36        |
| 25 | ESR of the high-spin (S= 25/2) Mn <sup>5</sup> molecule. Journal of Chemical Physics, 1982, 76, 5636-5637.  | 3.0 | 34        |
| 26 | Temperature-dependent phase reversal of nonresonant microwave and rf absorption in high-T <sub>c</sub> superconductors. Physical Review B, 1991, 44, 10121-10125.   | 3.2 | 33        |
| 27 | An electron paramagnetic resonance study of Pr <sub>0.6</sub> Ca <sub>0.4</sub> MnO <sub>3</sub> across the charge-ordering transition. Journal of Physics Condensed Matter, 2000, 12, 6919-6926.   | 1.8 | 33        |
| 28 | Dense electronic excitation induced defects in fused silica. Journal Physics D: Applied Physics, 2003, 36, 3151-3155.   | 2.8 | 31        |
| 29 | Probing the existing magnetic phases in Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> (PCMO) nanowires and nanoparticles: magnetization and magneto-transport investigations. Journal of Physics Condensed Matter, 2010, 22, 116004. | 1.8 | 29        |
| 30 | Nature and stability of the ~60-K superconducting phase in the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> system. Physical Review B, 1990, 42, 6765-6768.  | 3.2 | 28        |
| 31 | Dielectric properties, thermal decomposition and related aspects of BiAlO <sub>3</sub> . Solid State Communications, 2008, 146, 435-437.  | 1.9 | 28        |
| 32 | Ba <sub>3</sub> (P <sub>1-x</sub> Mn <sub>x</sub> O <sub>4</sub> ) <sub>2</sub> : Blue/green inorganic materials based on tetrahedral Mn(V). Bulletin of Materials Science, 2011, 34, 1257-1262.  | 1.7 | 28        |
| 33 | Realizing the hindered charge ordered phase in nanoscale charge ordered manganites: magnetization, magneto-transport and EPR investigations. Journal of Physics Condensed Matter, 2009, 21, 196005.   | 1.8 | 27        |
| 34 | Electron paramagnetic resonance study of porous silicon. Applied Physics Letters, 1992, 60, 2116-2117.  | 3.3 | 25        |
| 35 | Color center formation in sapphire by swift heavy ion irradiation. Radiation Measurements, 2003, 36, 723-727.   | 1.4 | 25        |
| 36 | Line shapes of field dependent nonresonant microwave and rf absorption in high-T <sub>c</sub> superconductors. Journal of Applied Physics, 1994, 75, 4131-4136.   | 2.5 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Optical spectroscopic studies of composites of conducting PANI with CdSe and ZnO nanocrystals. Chemical Physics Letters, 2006, 433, 154-158.   | 2.6 | 23        |
| 38 | Cr 3 + electron paramagnetic resonance study of $\text{Sn}_{1-x}\text{Cr}_x\text{O}_2$ (0.00 ≤ x ≤ 0.10). Journal of Applied Physics, 2009, 105, .   | 2.5 | 23        |
| 39 | Magnetization in electron- and Mn- doped SrTiO <sub>3</sub> . Scientific Reports, 2013, 3, 1433.   | 3.3 | 23        |
| 40 | Preparation, structure, microwave absorption and other properties of the 125K superconductor $\text{Tl}_2\text{Ca}_2\text{Ba}_2\text{Cu}_3\text{O}_{10+\delta}$ . Solid State Communications, 1988, 67, 39-42. | 1.9 | 21        |
| 41 | Investigation of the (PEG)xLiCl system using conductivity, DSC and NMR techniques. Solid State Ionics, 1993, 67, 97-105.   | 2.7 | 21        |
| 42 | Paramagnetic Meissner effect in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . Physica C: Superconductivity and Its Applications, 1994, 219, 87-92.   | 1.2 | 21        |
| 43 | Effects of a plasticizer on protonic conductivity of polymer electrolyte (PEG)100NH <sub>4</sub> ClO <sub>4</sub> . Solid State Ionics, 1999, 122, 291-299.  | 2.7 | 21        |
| 44 | Electron spin resonance studies in the doped polyaniline PANI-AMPSA: Evidence for local ordering from linewidth features. Physical Review B, 2005, 72, .   | 3.2 | 21        |
| 45 | NMR study of fast protonic conduction in layered HLa <sub>2</sub> NbTi <sub>2</sub> O <sub>10</sub> ·1.5H <sub>2</sub> O. Solid State Ionics, 1992, 58, 303-309.   | 2.7 | 19        |
| 46 | An electron paramagnetic resonance study of electron "hole asymmetry in charge ordered Pr <sub>1-x</sub> CaxMnO <sub>3</sub> (x= 0.64, 0.36). Journal of Physics Condensed Matter, 2004, 16, 2869-2878.        | 1.8 | 19        |
| 47 | Large enhancement of the ionic conductivity in an electron-beam-irradiated [poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5<br>42, 1299-1311.   | 2.1 | 19        |
| 48 | Enhanced ionic conductivity in nano-composite solid polymer electrolyte: (PEG) x LiBr: y(SiO <sub>2</sub> ). Ionics, 2011, 17, 21-27.  | 2.4 | 19        |
| 49 | Role of silica nanoparticles in conductivity enhancement of nanocomposite solid polymer electrolytes: (PEGx NaBr): ySiO <sub>2</sub> . Ionics, 2013, 19, 1375-1379.  | 2.4 | 19        |
| 50 | Bi <sub>2-x</sub> Pbx(Ca, Sr) <sub>n+1</sub> Cu <sub>n</sub> O <sub>2n+4+δ</sub> (n = 1, 2, 3, and 4) family of superconductors. Journal of Solid State Chemistry, 1989, 79, 177-180.                          | 2.9 | 18        |
| 51 | Magnetic study of an amorphous conducting polyaniline. Applied Physics Letters, 2003, 82, 1733-1735.   | 3.3 | 18        |
| 52 | Electron paramagnetic resonance studies on multiferroic DyMnO <sub>3</sub> and Dy <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> . Journal of Applied Physics, 2008, 104, .                                 | 2.5 | 18        |
| 53 | Investigation on two magnon scattering processes in pulsed laser deposited epitaxial nickel zinc ferrite thin film. Journal Physics D: Applied Physics, 2015, 48, 125004.                                      | 2.8 | 18        |
| 54 | 123, 247, and 124 cuprate superconductors: Investigations of thermodynamic stabilities, defect structures, and intergrowths. Journal of Solid State Chemistry, 1990, 88, 163-176.                              | 2.9 | 17        |

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|----|--|-----|-----------|
| 55 | Nonresonant microwave absorption study of intrinsic Josephson coupling in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. <i>Physical Review B</i> , 1996, 53, 9366-9370.  | 3.2 | 17        |
| 56 | Electron spin resonance absorption in organic metal polyaniline and its blend with PMMA. <i>Solid State Communications</i> , 1999, 110, 503-508.   | 1.9 | 17        |
| 57 | Enhanced lithium-ion transport in PEG-based composite polymer electrolyte with Mn <sub>0.03</sub> Zn <sub>0.97</sub> Al <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Solid State Ionics</i> , 2002, 154-155, 21-27.   | 2.7 | 17        |
| 58 | An electron paramagnetic resonance study of phase segregation in Nd <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 279, 91-102.  | 2.3 | 17        |
| 59 | Surface-Enhanced Raman Spectra of Aza-aromatics on Nanocrystals of Metallic ReO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2007, 111, 5689-5693.  | 3.1 | 17        |
| 60 | Vitrification, relaxation and free volume in glycerol-water binary liquid mixture: Spin probe ESR studies. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2433-2438.  | 3.1 | 17        |
| 61 | Nonresonant microwave absorption studies of surface passivation of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films. <i>Applied Physics Letters</i> , 1995, 66, 1995-1997.   | 3.3 | 16        |
| 62 | Irreversibility line and the hierarchy of weak links in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> . <i>Physical Review B</i> , 1995, 51, 8521-8528.   | 3.2 | 16        |
| 63 | Concentration-dependent NMR and conductivity studies of (PEG) <sub>x</sub> NH <sub>4</sub> ClO <sub>4</sub> . <i>Solid State Ionics</i> , 1996, 92, 261-264.   | 2.7 | 16        |
| 64 | Martensite-like transition and spin-glass behavior in nanocrystalline Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>AIP Advances</i> , 2011, 1, .  | 1.3 | 16        |
| 65 | Molecular Probe Dynamics Reveals Suppression of Ice-Like Regions in Strongly Confined Supercooled Water. <i>PLoS ONE</i> , 2012, 7, e44382.  | 2.5 | 16        |
| 66 | Complete 'Melting' of Charge Order in Hydrothermally Grown Pr <sub>0.57</sub> Ca <sub>0.41</sub> Ba <sub>0.02</sub> MnO <sub>3</sub> Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1775-1778.   | 0.9 | 15        |
| 67 | Study of coexisting phases in Bi doped La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 406, 22-29.   | 2.3 | 15        |
| 68 | Synthesis, Structure, and Magnetic Properties of a New Three-Dimensional Iron Phosphite, [C <sub>4</sub> N <sub>2</sub> H <sub>12</sub> ][Fe <sub>4</sub> (H <sub>2</sub> O) <sub>3</sub> ](HPO <sub>3</sub> ) <sub>7</sub> · 4H <sub>2</sub> O. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1386-1391. | 1.4 | 15        |
| 69 | The effect of composition, electron irradiation and quenching on ionic conductivity in a new solid polymer electrolyte: (PEG) x NH <sub>4</sub> I. <i>Pramana - Journal of Physics</i> , 2009, 72, 555-568.  | 1.8 | 14        |
| 70 | Fluorite and Mixed-Metal Kagome-Related Topologies in Metal-Organic Framework Compounds: Synthesis, Structure, and Properties. <i>Chemistry - an Asian Journal</i> , 2009, 4, 936-947.   | 3.3 | 14        |
| 71 | Rb <sup>87</sup> nuclear-magnetic-resonance study of the cubic to tetragonal phase transition in RbCaF <sub>3</sub> . <i>Physical Review B</i> , 1979, 20, 1812-1816.  | 3.2 | 13        |
| 72 | Esr study of (SO <sub>4</sub> ) <sub>2</sub> dynamics in relation to the ferroelectric phase transition in ammonium sulfate. <i>Journal of Physics and Chemistry of Solids</i> , 1982, 43, 1157-1164.  | 4.0 | 13        |

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|----|---|-----|-----------|
| 73 | Role of Crystal Field in Mixed Alkali Metal Effect: Electron Paramagnetic Resonance Study of Mixed Alkali Metal Oxyfluoro Vanadate Glasses. <i>Journal of Physical Chemistry A</i> , 2014, 118, 573-578.                        | 2.5 | 13        |
| 74 | Synthesis and optical properties of In-doped GaN nanocrystals. <i>Solid State Communications</i> , 2007, 141, 325-328.  | 1.9 | 12        |
| 75 | Oscillatory exchange bias and training effects in nanocrystalline Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>AIP Advances</i> , 2012, 2, .   | 1.3 | 12        |
| 76 | ESR Studies of Phase Transitions in Double Propionates: Dicalcium Barium Propionate Ca <sub>2</sub> Ba(C <sub>2</sub> H <sub>5</sub> COO) <sub>6</sub> . <i>Journal of the Physical Society of Japan</i> , 1981, 50, 2312-2316. | 1.6 | 12        |
| 77 | Synthesis, Structure, and Magnetic Properties of Amine-templated Transition-Metal Phosphites. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1829-1838.   | 2.0 | 11        |
| 78 | Lithium nuclear magnetic resonance in lithium formate monohydrate. <i>Physica Status Solidi A</i> , 1972, 11, K109-K112.  | 1.7 | 10        |
| 79 | ESR of matrix isolated bromine atoms produced in the H+Br <sub>2</sub> reaction. <i>Journal of Chemical Physics</i> , 1980, 73, 1498-1502.  | 3.0 | 10        |
| 80 | NMR and X-ray Investigations of a Plastic Crystalline Phase in MBBA. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 126, 161-173.  | 0.8 | 10        |
| 81 | EPR investigations of phase transitions in lithium potassium sulfate: LiKSO <sub>4</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 1986, 47, 927-931.   | 4.0 | 10        |
| 82 | EPR study of LiKSO <sub>4</sub> in phase IV below -138 degrees C. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 597-605.   | 1.5 | 10        |
| 83 | Magnetic, electron magnetic resonance and optical studies of Pr <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 155011.                                  | 2.8 | 10        |
| 84 | Magnetocaloric effect and nature of magnetic transition in nanoscale Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2012, 112, .  | 2.5 | 10        |
| 85 | ESR studies of phase transitions in double propionates. <i>Ferroelectrics</i> , 1982, 40, 49-52.  | 0.6 | 9         |
| 86 | Critical current density measurements of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films by non-resonant r.f. absorption method. <i>Solid State Communications</i> , 1991, 79, 713-716.          | 1.9 | 9         |
| 87 | Anomalous d.c. field dependence of non-resonant r.f. absorption at high r.f. fields in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> powders. <i>Solid State Communications</i> , 1994, 89, 375-378.      | 1.9 | 9         |
| 88 | Preparation, Characterization, and Magnetic Studies of Bi <sub>0.5</sub> X <sub>0.5</sub> (X = Ca, Sr)MnO <sub>3</sub> Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2025-2028.                    | 0.9 | 9         |
| 89 | On exceeding the solubility limit of Cr <sup>3+</sup> dopants in SnO <sub>2</sub> nanoparticles based dilute magnetic semiconductors. <i>Journal of Applied Physics</i> , 2018, 123, 161518.                                    | 2.5 | 9         |
| 90 | Growth and extraction of flux free YBCO crystals. <i>Journal of Crystal Growth</i> , 1992, 121, 531-535.  | 1.5 | 8         |

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|-----|--|-----|-----------|
| 91  | Electron spin resonance study on high energy heavy ion irradiated conducting carbon films. Solid State Communications, 1998, 105, 543-546.   | 1.9 | 8         |
| 92  | Influence of cobalt doping on superconducting transition in as-grown YBCO single crystals. Solid State Communications, 1999, 109, 333-338.   | 1.9 | 8         |
| 93  | Anomalous spin dynamics in the charge-ordered two-electron doped manganite $\text{Ca}_{0.9}\text{Ce}_{0.1}\text{MnO}_3$ : Possibility of a spin-liquid phase. Physical Review B, 2006, 73, .   | 3.2 | 8         |
| 94  | Study of effect of composition, irradiation and quenching on ionic conductivity in (PEG) x : $\text{NH}_4\text{NO}_3$ solid polymer electrolyte. Bulletin of Materials Science, 2008, 31, 869-876.   | 1.7 | 8         |
| 95  | EPR Evidence for Premonitory Charge-Ordering Fluctuations in Nanomanganite $\text{Pr}_{0.57}\text{Ca}_{0.41}\text{Ba}_{0.02}\text{MnO}_3$ . Applied Magnetic Resonance, 2008, 33, 127-136.   | 1.2 | 8         |
| 96  | Enhancement of uniaxial magnetic anisotropy in Fe thin films grown on GaAs(001) with an MgO underlayer. Journal of Applied Physics, 2011, 109, 07C114.   | 2.5 | 8         |
| 97  | Charge order suppression, emergence of ferromagnetism and absence of exchange bias effect in $\text{Bi}_{0.25}\text{Ca}_{0.75}\text{MnO}_3$ nanoparticles: Electron paramagnetic resonance and magnetization studies. Journal of Applied Physics, 2012, 111, . | 2.5 | 8         |
| 98  | Signatures of field-induced Berezinskii-Kosterlitz-Thouless correlations in the three-dimensional manganite $\text{Bi}_{0.5}/\text{Mn}_{0.5}$ . Physical Review B, 2020, 102, .  | 3.2 | 8         |
| 99  | A high resolution NMR study of ionic transport in the hydrate of ammonium ferrocyanide. Solid State Ionics, 1987, 23, 267-270.   | 2.7 | 7         |
| 100 | Critical-current variation with Pr content in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_7$ epitaxial films. Physical Review B, 1993, 48, 6465-6469.   | 3.2 | 7         |
| 101 | Rapid screening for HIV-1 protease inhibitor leads through X-ray diffraction. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 594-596.   | 2.5 | 7         |
| 102 | Spin probe ESR studies of dynamics of single walled carbon nanotubes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 1178-1182.  | 3.9 | 7         |
| 103 | Lithium nuclear-magnetic-resonance in lithium acetate dihydrate, $\text{Li}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$ . Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1974, 30, 846-848.                       | 0.4 | 6         |
| 104 | Nuclear magnetic resonance studies of the structural phase transitions in $\text{RbCaF}_3$ . Solid State Communications, 1979, 30, 129-131.  | 1.9 | 6         |
| 105 | $^1\text{H}$ NMR study of $[\text{N}(\text{CH}_3)_4]_2\text{ZnCl}_4$ at high pressures and low temperatures. Phase Transitions, 1987, 9, 259-268.  | 1.3 | 6         |
| 106 | Surface barrier effects in non-resonant microwave absorption by thin superconducting films of $\text{YBa}_2\text{Cu}_3\text{O}_7$ . Physica C: Superconductivity and Its Applications, 1994, 234, 229-231.   | 1.2 | 6         |
| 107 | An electron spin-resonance study of radicals in single crystals. Journal of Physics Condensed Matter, 1997, 9, 3219-3226.  | 1.8 | 6         |
| 108 | Electron paramagnetic resonance studies of the insulating ferromagnetic manganite $\text{Nd}_{0.8}\text{Pb}_{0.2}\text{MnO}_3$ above the transition temperature. Solid State Communications, 2002, 123, 379-382.   | 1.9 | 6         |

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|-----|--|-----|-----------|
| 109 | Spin probe ESR studies of PEGxLiClO <sub>4</sub> polymer electrolyte systems. <i>Ionics</i> , 2004, 10, 139-141.   | 2.4 | 6         |
| 110 | Apparatus for nonresonant rf power absorption studies in high T <sub>c</sub> superconductors and CMR materials using rf oscillators. <i>Review of Scientific Instruments</i> , 2005, 76, 023905.   | 1.3 | 6         |
| 111 | <sup>7</sup> Li Spin-flip satellites in the EPR spectra of NH <sub>3</sub> <sup>+</sup> -doped LiKSO <sub>4</sub> . <i>Chemical Physics Letters</i> , 1987, 133, 455-457.  | 2.6 | 5         |
| 112 | Electron paramagnetic resonance evidence for Jahn-Teller glasses. <i>Molecular Physics</i> , 1988, 65, 181-191.  | 1.7 | 5         |
| 113 | Frequency modulated non-resonant r.f. and microwave absorption in high-T <sub>c</sub> superconductors. <i>Solid State Communications</i> , 1994, 89, 633-635.  | 1.9 | 5         |
| 114 | Mechanism of protonic conduction in defect pyrochlore HNbWO <sub>6</sub> ·xH <sub>2</sub> O using MAS NMR. <i>Solid State Ionics</i> , 1996, 86-88, 665-668.   | 2.7 | 5         |
| 115 | Superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thick films on Ba <sub>2</sub> RETaO <sub>6</sub> (RE = Pr, Nd, Eu, and Dy) substrates. <i>Journal of Superconductivity and Novel Magnetism</i> , 1997, 10, 193-197. | 0.5 | 5         |
| 116 | Charge ordering and antiferromagnetic transitions in Nd <sub>x</sub> Ca <sub>1-x</sub> MnO <sub>3</sub> (x=0.2,0.3) manganites. <i>Physica B: Condensed Matter</i> , 2004, 349, 35-43.   | 2.7 | 5         |
| 117 | EPR Study of Mn <sup>2+</sup> Doped Dicalcium Barium Propionate Single Crystals under Hydrostatic Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 1987, 141, K133.  | 1.5 | 4         |
| 118 | Critical current densities of high pressure oxygen sputtered thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> by non-resonant rf absorption method. <i>Pramana - Journal of Physics</i> , 1993, 40, 119-122.                              | 1.8 | 4         |
| 119 | Oxygen displacement in a 107Ag <sup>17+</sup> ion irradiated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystal. <i>Applied Physics Letters</i> , 1997, 71, 1576-1578.  | 3.3 | 4         |
| 120 | Frequent Josephson junction decoupling is the main origin of ac losses in the superconducting state. <i>Journal of Applied Physics</i> , 2005, 98, 073906.   | 2.5 | 4         |
| 121 | Size Dependent Magnetic Properties of Nd <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> Nanomanganite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 73, 012007.  | 0.6 | 4         |
| 122 | Disappearance of electron-hole asymmetry in nanoparticles of Nd <sub>1-x</sub> CaxMnO <sub>3</sub> (x=0.6,0.4): magnetization and electron paramagnetic resonance evidence. <i>Journal of Applied Physics</i> , 2015, 117, 17D514.                       | 2.5 | 4         |
| 123 | ESR studies of phase transitions in double propionates. <i>Ferroelectrics</i> , 1981, 39, 1167-1167.   | 0.6 | 3         |
| 124 | Evaluation of diffusion coefficient and ionic mobility in (NH <sub>4</sub> ) <sub>4</sub> Fe(CN) <sub>6</sub> ·1.5 H <sub>2</sub> O. <i>Solid State Ionics</i> , 1988, 28-30, 647-650.   | 2.7 | 3         |
| 125 | A pulsed field gradient spin echo NMR spectrometer for diffusion coefficient measurements. <i>Pramana - Journal of Physics</i> , 1988, 31, 51-57.  | 1.8 | 3         |
| 126 | NMR studies of the protonic conductor (NH <sub>4</sub> ) <sub>4</sub> Fe(CN) <sub>6</sub> ·1.5H <sub>2</sub> O. <i>Solid State Ionics</i> , 1989, 35, 123-125.   | 2.7 | 3         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Protonic conductivity of $(\text{NH}_4)_4\text{Fe}(\text{CN})_6 \cdot 1.5\text{H}_2\text{O}$ by complex admittance method. <i>Solid State Ionics</i> , 1991, 48, 271-275.   | 2.7 | 3         |
| 128 | Chemical shift spectroscopy of protonic conduction in layered and defect pyrochlore $\text{HNbWO}_6 \cdot x\text{H}_2\text{O}$ . <i>Chemical Physics Letters</i> , 1994, 231, 487-490.  | 2.6 | 3         |
| 129 | Effects of granularity on magnetic field dependent microwave response and surface degradation in thin films of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . <i>Solid State Communications</i> , 1996, 98, 77-81.                           | 1.9 | 3         |
| 130 | Vortex dynamics at rf frequencies in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 297, 253-261.  | 1.2 | 3         |
| 131 | EPR studies on single crystals of. <i>Physica B: Condensed Matter</i> , 2007, 398, 107-111.   | 2.7 | 3         |
| 132 | Charge-Ordered Antiferromagnetic to Ferromagnetic Phase Transition in Cr-Doped $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$ : EMR and Magnetization Study. <i>Applied Magnetic Resonance</i> , 2008, 33, 11-17. | 1.2 | 3         |
| 133 | Electron Magnetic Resonance Studies of Nanosized $\text{Nd}_{0.65}\text{Ca}_{0.35}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$ ( $x = 0, 0.06, 0.1$ ) Manganite. <i>Applied Magnetic Resonance</i> , 2015, 46, 1059-1068.                      | 1.2 | 3         |
| 134 | Magnetic and electron paramagnetic resonance studies of $\text{Ln}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ (Ln = Pr, Bi) manganite. <i>AIP Advances</i> , 2021, 11, 015144.   | 1.3 | 3         |
| 135 | A microprocessor-controlled programmable pulse generator. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 100-101.  | 0.7 | 2         |
| 136 | High pressure NMR and compressibility evidence for a phase transition in the protonic conductor $(\text{NH}_4)_4\text{Fe}(\text{CN})_6 \cdot 1.5\text{H}_2\text{O}$ . <i>Solid State Ionics</i> , 1988, 28-30, 664-667.                 | 2.7 | 2         |
| 137 | Superconductivity in the 100-120 K region in oxides of the Tl-Ca-Ba-Cu-O system. <i>Pramana - Journal of Physics</i> , 1988, 30, L483-L490.   | 1.8 | 2         |
| 138 | An electron spin resonance study of $\text{Mn}^{2+}$ doped calcium hydrazine carboxylate monohydrate. <i>Bulletin of Materials Science</i> , 1994, 17, 1131-1141.   | 1.7 | 2         |
| 139 | Non-resonant rf absorption evidence for reentrant melting of vortex lattice in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1975-1976.    | 1.2 | 2         |
| 140 | Possible non-resonant r.f. absorption evidence for superconducting fluctuations above $T_C$ in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. <i>Solid State Communications</i> , 1998, 107, 373-378.                 | 1.9 | 2         |
| 141 | Non-resonant microwave absorption studies of superconducting $\text{MgB}_2$ and $\text{MgB}_2 + \text{MgO}$ . <i>Pramana - Journal of Physics</i> , 2002, 58, 361-369.  | 1.8 | 2         |
| 142 | EPR Evidence for Premonitory Charge-Ordering Fluctuations in Hydrothermally Grown $\text{Pr}_{0.57}\text{Ca}_{0.41}\text{Ba}_{0.02}\text{MnO}_3$ Nanowires. <i>Applied Magnetic Resonance</i> , 2009, 36, 347-356.                      | 1.2 | 2         |
| 143 | Contactless conductivity of nanoparticles from electron magnetic resonance lineshape analysis. <i>Solid State Communications</i> , 2010, 150, 1518-1520.  | 1.9 | 2         |
| 144 | FMR Investigations on Magnetic Anisotropy in Epitaxial Fe Films Grown on $\text{GaAs}(001)$ by Pulsed Laser Deposition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2799-2802.                                  | 1.8 | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | Ferromagnetic Resonance Study on a Grid of Permalloy Nanowires. IEEE Transactions on Magnetics, 2013, 49, 3097-3100.   | 2.1 | 2         |
| 146 | Comparative study of magnetic ordering in bulk and nanoparticles of Sm <sub>0.65</sub> Ca <sub>0.35</sub> MnO <sub>3</sub> : Magnetization and electron magnetic resonance measurements. Journal of Applied Physics, 2015, 117, 17E111.          | 2.5 | 2         |
| 147 | Zinc doping effects on the magnetic properties of Nd <sub>0.65</sub> Ca <sub>0.35</sub> Mn <sub>0.9</sub> Zn <sub>0.1</sub> O <sub>3</sub> nanomanganite. International Journal of Nanotechnology, 2017, 14, 885.                                | 0.2 | 2         |
| 148 | Occurrence of Mixed Phase in $\text{Bi}_{0.5}\text{Sr}_{0.5}\text{Mn}_{0.9}\text{Cr}_{0.1}\text{O}_3$ Bulk Sample: Electron Paramagnetic Resonance and Magnetization Studies. Applied Magnetic Resonance, 2019, 50, 1049-1058.                   | 1.2 | 2         |
| 149 | Size dependence of charge order and magnetism in Sm <sub>0.35</sub> Ca <sub>0.65</sub> MnO <sub>3</sub> . AIP Advances, 2021, 11, 025313.  | 1.3 | 2         |
| 150 | High-pressure NMR investigations of the protonic conductor (NH <sub>4</sub> ) <sub>4</sub> Fe(CN) <sub>6</sub> ·1.5H <sub>2</sub> O. Journal of Physics Condensed Matter, 1989, 1, 1495-1502.  | 1.8 | 1         |
| 151 | Surface barrier effects in non-resonant microwave absorption by superconducting thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Physica C: Superconductivity and Its Applications, 1994, 235-240, 2056-2057. | 1.2 | 1         |
| 152 | (PEG) x NH <sub>4</sub> ClO <sub>4</sub> : a new polymeric fast proton conductor. Bulletin of Materials Science, 1995, 18, 917-920.  | 1.7 | 1         |
| 153 | Phase reversal of non-resonant microwave absorption in superconducting powder mixtures. Solid State Communications, 1996, 99, 665-668.   | 1.9 | 1         |
| 154 | Ionic transport in (PEG)xLiBr systems. Solid State Ionics, 1996, 85, 187-192.  | 2.7 | 1         |
| 155 | <sup>1</sup> H MAS NMR study of protonic conduction in layered HNbWO <sub>6</sub> · xH <sub>2</sub> O (x = 1.5, 0.5). Solid State Ionics, 1996, 86-88, 609-611.  | 2.7 | 1         |
| 156 | Suppressed rf dissipation in 107Ag <sup>17+</sup> ion irradiated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals by enhanced flux line tilt modulus. Applied Physics Letters, 1998, 72, 2325-2327.              | 3.3 | 1         |
| 157 | Non-resonant microwave absorption evidence for intrinsic Josephson coupling in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1229-1230.    | 1.2 | 1         |
| 158 | ESR evidence for mirror symmetry conservation during radiation damage of X-irradiated single crystals of KClO <sub>4</sub> . Applied Magnetic Resonance, 2000, 19, 111-120.  | 1.2 | 1         |
| 159 | Faraday: Father of electromagnetism. Resonance, 2002, 7, 46-50.  | 0.3 | 1         |
| 160 | Equipartition of current in parallel conductors on cooling through the superconducting transition. Journal of Physics Condensed Matter, 2006, 18, L143-L147.   | 1.8 | 1         |
| 161 | Spin-Probe ESR Studies on Nanocomposite Polymer Electrolytes. Applied Magnetic Resonance, 2009, 36, 149-156.   | 1.2 | 1         |
| 162 | Electron paramagnetic resonance studies on Mn doped GaSb. Journal of Applied Physics, 2011, 109, .   | 2.5 | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Effect of size reduction on magnetic ordering in Bi <sub>0.2</sub> Sr <sub>0.8</sub> MnO <sub>3</sub> . Journal of Applied Physics, 2014, 115, 17E130.  | 2.5 | 1         |
| 164 | Effect of Size Reduction on Magnetic Ordering in Sm <sup>1-x</sup> Ca <sup>x</sup> MnO <sub>3</sub> (x=0.35, 0.65 and 0.92) Manganites: Magnetic and EMR Studies. Applied Magnetic Resonance, 2015, 46, 967-976.  | 1.2 | 1         |
| 165 | Investigations on Magnetization and Electron Magnetic Resonance Properties of Nd <sub>0.65</sub> Ca <sub>0.35</sub> Mn <sub>1-x</sub> Zn <sub>x</sub> O <sub>3</sub> (x=0, 0.1, 0.3) Nanomanganite. Applied Magnetic Resonance, 2019, 50, 1359-1368. <sup>1</sup> | 1.2 | 1         |
| 166 | Magnetic Field Induced Berezinskii-Kosterlitz-Thouless Correlations in 3-Dimensional Manganites. MRS Advances, 2020, 5, 2251-2260.  | 0.9 | 1         |
| 167 | Growth of manganite nanoparticles with narrow size distribution using reverse micelle method. IOP Conference Series: Materials Science and Engineering, 2022, 1221, 012041.   | 0.6 | 1         |
| 168 | Certain novel features of the R.F. response of the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1571-1572.  | 1.2 | 0         |
| 169 | Role of magnetic field modulation in causing the fine structure of non-resonant microwave/rf absorption in HTSC. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2058-2059.   | 1.2 | 0         |
| 170 | Non-resonant RF and microwave response: A novel technique for the characterization of superconducting materials. Bulletin of Materials Science, 1994, 17, 1271-1285.  | 1.7 | 0         |
| 171 | Low temperature <sup>1</sup> H NMR relaxation studies of phase transitions in dicalcium barium propionate. Phase Transitions, 1995, 54, 227-233.  | 1.3 | 0         |
| 172 | Competition between Josephson and electromagnetic interactions in single crystals. Superconductor Science and Technology, 1998, 11, 1372-1380.  | 3.5 | 0         |
| 173 | Stable ground states for $\hat{I}_1 = \hat{I}_2$ in double Josephson junction superconducting loops. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1671-1672.   | 1.2 | 0         |
| 174 | Studies on ac losses in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 719-721.  | 1.2 | 0         |
| 175 | A new behaviour of ac losses in superconducting Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. Journal of Physics Condensed Matter, 2009, 21, 045704.  | 1.8 | 0         |
| 176 | Coexistence of para and ferromagnetic phases of in undoped CdZnTe () crystals. Solid State Communications, 2010, 150, 2174-2177.  | 1.9 | 0         |
| 177 | Temperature-Dependent Magnetic and EPR Studies of Bulk and Nanoparticles of Bi <sub>0.1</sub> Ca <sub>0.9</sub> MnO <sub>3</sub> . Applied Magnetic Resonance, 2015, 46, 921-929.   | 1.2 | 0         |
| 178 | An EPR primer. Resonance, 2015, 20, 1012-1016.  | 0.3 | 0         |
| 179 | EXPLORATORY NMR IMAGING EXPERIMENTS TO DETERMINE THE POSSIBILITY OF A PERCOLATING MECHANISM IN PLASTICIZED POLYMER ELECTROLYTES. , 2002, , .  |     | 0         |
| 180 | Paramagnetic Meissner effect in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> : A non-resonant microwave absorption study. World Scientific Series in 20th Century Chemistry, 1995, , 607-612.  | 0.0 | 0         |