# RN Saxena

List of Publications by Year
in descending order

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|---|---|---|---|
| 97 papers | 802 citations | 623734 14 h-index | 610901 24 g-index |
| 97 all docs | 97 docs citations | 97 times ranked | 558 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetic hyperfine field in the Heusler alloys Co2YZ (Y = V, Nb, Ta, Cr; Z = Al, Ga). Journal of Magnetism and Magnetic Materials, 1996, 163, 313-321. | 2.3 | 105 |
| 2 | Hyperfine interaction measurements inLaCrO3andLaFeO3perovskites using perturbed angular correlation spectroscopy. Physical Review B, 2001, 63, . | 3.2 | 92 |
| 3 | Magnetic hyperfine interaction inCeMn2Ge2andCeMn2Si2measured by perturbed angular correlation spectroscopy. Physical Review B, 2004, 69, . | 3.2 | 32 |
| 4 | Spectrum of Tb3+ ion in LaBr3 crystal. Journal of Luminescence, 1973, 6, 125-130. | 3.1 | 26 |
| 5 | Delafossite oxidesABO2(A=Ag,Cu;B=Al,Cr,Fe,In,Nd,Y)studied by perturbed-angular-correlation spectroscopy using a111Ag(Î²â^')111Cdprobe. Physical Review B, 1998, 58, 2563-2569. | 3.2 | 25 |
| 6 | Changes induced by the presence of Zn or Ni impurity at Cu sites in CuAlO2 delafossite. Solid State Communications, 2003, 125, 175-178. | 1.9 | 24 |
| 7 | Influence of Cd impurity on the electronic properties of CuAlO2 delafossite: first-principles calculations. Journal of Physics Condensed Matter, 2002, 14, 5517-5528. | 1.8 | 23 |
| 8 | Magnetic hyperfine fields in the Heusler alloys Co2 YZ (Y=Sc, Ti, Hf, V, Nb; Z=Al, Ga, Si, Ge, Sn). Hyperfine Interactions, 1993, 80, 971-976. | 0.5 | 21 |
| 9 | Magnetic hyperfine field at highly diluted Ce impurities in the antiferromagnetic compound GdRh2Si2 studied by perturbed gammaâ€“gamma angular correlation spectroscopy. Journal of Alloys and Compounds, 2012, 515, 44-48. | 5.5 | 21 |
| 10 | First-principles calculations of hyperfine fields in theCeIn3intermetallic compound. Physical Review B, 2001, 65, . | 3.2 | 19 |
| 11 | Local investigation of hyperfine interactions in pure and Co-doped ZnO. Journal of Magnetism and Magnetic Materials, 2010, 322, 1195-1197. | 2.3 | 19 |
| 12 | Magnetic hyperfine fields in Heusler alloys Co YZ (Y=Ti,Zr; Z=Al,Ga,Sn). Hyperfine Interactions, 1987, 34, 431-434. | 0.5 | 17 |
| 13 | Investigation of the magnetic hyperfine field at the Y site in the Heusler alloys (Y = Ti,V,Nb,Cr; Z =) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.8 | 16 |
| 14 | The effect of hybridization on local magnetic interactions at highly diluted Ce ions in tetragonal intermetallic compounds RERh2Si2(RE=Ce, Pr, Nd, Gd, Tb, Dy). Journal of Physics Condensed Matter, 2012, 24, 416002. | 1.8 | 15 |
| 15 | Investigation of Hyperfine Interactions in CeIn3 byTDPAC. Hyperfine Interactions, 2001, 133, 77-81. | 0.5 | 14 |
| 16 | Local investigation of magnetism at R and In sites in RNiIn (R=Gd, Tb, Dy, Ho) compounds. Journal of Applied Physics, 2007, 101, 09D510. | 2.5 | 14 |
| 17 | Temperature dependence of electric field gradient in LaCoO3perovskite investigated by perturbed angular correlation spectroscopy. Journal of Physics Condensed Matter, 2005, 17, 6989-6997. | 1.8 | 12 |
| 18 | Electric quadrupole interactions in nano-structured SnO 2 as measured with PAC spectroscopy. Hyperfine Interactions, 2010, 197, 239-243. | 0.5 | 11 |

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|---|---|---|---|
| 19 | Impurities in Magnetic Materials Studied by PAC Spectroscopy. Defect and Diffusion Forum, 0, 311, 39-61. | 0.4 | 11 |
| 20 | Study of the effect of disorder on the local magnetism in Heusler alloys. Journal of Applied Physics, 2006, 99, 08J104. | 2.5 | 10 |
| 21 | Magnetic field at 140Ce in Dy sites in DyX compounds studied by perturbed angular correlation spectroscopy. Journal of Magnetism and Magnetic Materials, 2008, 320, e478-e480. | 2.3 | 10 |
| 22 | Effect of Ge substitution for Si on the magnetic hyperfine field in LaMn2Si2 compound measured by perturbed angular correlation spectroscopy with 140Ce as probe nuclei. Journal of Applied Physics, 2013, 113, 17E124. | 2.5 | 10 |
| 23 | Magnetic behavior of LaMn2(Si(1â˜'x)Gex)2 compounds characterized by magnetic hyperfine field measurements. Journal of Applied Physics, 2014, 115, 17E124. | 2.5 | 10 |
| 24 | The magnetic behavior of the intermetallic compound NdMn2Ge2 studied by magnetization and hyperfine interactions measurements. Journal of Applied Physics, 2015, 117, 17E304. | 2.5 | 8 |
| 25 | Directional Correlation of the Gamma Transitions inCe140. Physical Review C, 1973, 7, 395-403. | 2.9 | 7 |
| 26 | Investigation of Hyperfine Interactions in GdNiIn Compound. Hyperfine Interactions, 2004, 158, 157-161. | 0.5 | 7 |
| 27 | Characterization of ZnO and Zn0.95Co0.05O prepared by sol-gel method using PAC spectroscopy. Hyperfine Interactions, 2007, 178, 1-5. | 0.5 | 7 |
| 28 | Magnetic hyperfine interactions on Cd sites of the rare-earth cadmium compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:mtext>Cd</mml:mtext></mml:mrow>< | 3.2 | 7 |
| 29 | Stable tetragonal phase and magnetic properties of Fe-doped HfO2 nanoparticles. AIP Advances, 2017, 7, 056315. | 1.3 | 7 |
| 30 | Directional correlations of Î³-transitions in 134Xe. Nuclear Physics A, 1974, 234, 357-364. | 1.5 | 6 |
| 31 | Electric quadrupole interactions in the CdTiO3 perovskiteâ€. Journal of Physics and Chemistry of Solids, 1978, 39, 175-178. | 4.0 | 6 |
| 32 | Directional correlations of gamma transitions in105Rh. Journal of Physics G: Nuclear Physics, 1979, 5, 1169-1177. | 0.8 | 6 |
| 33 | Magnetic hyperfine field on Ta in the Co2HfAl and Co2HfGa Heusler alloys. Hyperfine Interactions, 1981, 9, 489-493. | 0.5 | 6 |
| 34 | Study of the local magnetic environment in LaMnO3 perovskite by measuring hyperfine interactions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1639-E1641. | 2.3 | 6 |
| 35 | TDPAC measurements in pure and Fe-doped In 2 O 3. Hyperfine Interactions, 2013, 221, 105-110. | 0.5 | 6 |
| 36 | Electric field gradient in nanostructured SnO2 studied by means of PAC spectroscopy using 111Cd or 181Ta as probe nuclei. Hyperfine Interactions, 2013, 221, 129-136. | 0.5 | 6 |

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|---|---|---|---|
| 37 | A method to determine contributions to the hyperfine field at Ce probes in magnetic hosts: Application to Ce impurities at RE sites in REAg (RE = Gd, Tb, Dy, Ho) compounds. Journal of Alloys and Compounds, 2016, 660, 148-158. | 5.5 | 6 |
| 38 | g factor and the half-life of the 250 keV state in77Se. Journal of Physics G: Nuclear Physics, 1984, 10, 1571-1577. | 0.8 | 5 |
| 39 | The low-temperature magnetism of cerium atoms in CeMn2Si2and CeMn2Ge2compounds. Journal of Physics Condensed Matter, 2004, 16, 6685-6693. | 1.8 | 5 |
| 40 | A Perturbed-Angular-Correlation Study of Hyperfine Interactions at 181Ta in Î±-Fe2O3. Hyperfine Interactions, 2004, 158, 371-375. | 0.5 | 5 |
| 41 | Investigation of hyperfine interactions in RMO 3 (R = La, Nd; M = Cr, Fe) antiferromagnetic perovskite oxides using PAC spectroscopy. Hyperfine Interactions, 2007, 178, 45-49. | 0.5 | 5 |
| 42 | Investigation of spin transition in GdCoO3 by measuring the electric field gradient at Co sites. Journal of Magnetism and Magnetic Materials, 2008, 320, e32-e35. | 2.3 | 5 |
| 43 | Search for Room Temperature Ferromagnetism in Low-Concentration Transition Metal Doped ZnO Nanocrystalline Powders Using a Microscopic Technique. IEEE Transactions on Magnetics, 2010, 46, 1780-1783. | 2.1 | 5 |
| 44 | Magnetic hyperfine field at Nd sites in NdAg studied by perturbed angular correlation spectroscopy and ab-initio calculations. Journal of Magnetism and Magnetic Materials, 2010, 322, 1130-1133. | 2.3 | 5 |
| 45 | Temperature dependence of electric field gradients at Cd and Hf sites in cadmium perovskites. Hyperfine Interactions, 1978, 4, 615-621. | 0.5 | 4 |
| 46 | Lifetimes andg-factor measurements in the decay of the 399 keV isomeric state inPt197and the quasiparticle-phonon coupling model. Physical Review C, 1982, 25, 1587-1594. | 2.9 | 4 |
| 47 | Gamma-gamma angular correlations in the decay ofAs76. Physical Review C, 1989, 39, 2379-2384. | 2.9 | 4 |
| 48 | Directional correlations of Î³ transitions inCe142. Physical Review C, 1990, 41, 2312-2319. | 2.9 | 4 |
| 49 | An irradiation rig for neutron transmutation doping of silicon in the IEA-R1 research reactor. Nuclear Instruments & Methods in Physics Research B, 1993, 83, 157-162. | 1.4 | 4 |
| 50 | X-ray and time differential perturbed angular correlation measurements in ZrCr2 and ZrCr2H3 Laves phase compounds. Journal of Alloys and Compounds, 1995, 224, 60-65. | 5.5 | 4 |
| 51 | Temperature Dependence of the Magnetic Hyperfine Field at 140Ce on Gd Sites in GdAg Compound. Hyperfine Interactions, 2004, 158, 125-129. | 0.5 | 4 |
| 52 | Investigation of the magnetic hyperfine field at Gd and In sites in GdTIn (T=Ni, Pd, Cu) compounds. Physica B: Condensed Matter, 2007, 389, 168-171. | 2.7 | 4 |
| 53 | Hyperfine interactions at R and In sites in RNiIn (R = Gd, Tb, Dy, Ho) compounds measured by perturbed angular correlation spectroscopy. Hyperfine Interactions, 2007, 176, 101-106. | 0.5 | 4 |
| 54 | Investigation of hyperfine interactions in GdCrO3 perovskite oxide using PAC spectroscopy. Hyperfine Interactions, 2010, 197, 53-58. | 0.5 | 4 |

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| 55 | Absence of room temperature ferromagnetism in transition metal doped ZnO nanocrystalline powders from PAC spectroscopy. Hyperfine Interactions, 2010, 197, 77-81. | 0.5 | 4 |
| 56 | Study of hyperfine interactions in GdIn3. Journal of Applied Physics, 2013, 113, 17E133. | 2.5 | 4 |
| 57 | Locally symmetric oxygen vacancy around Cd impurities in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2021, 104, . | 3.2 | 4 |
| 58 | Gamma-gamma directional correlations for transitions inKr84. Physical Review C, 1980, 21, 1531-1537. | 2.9 | 3 |
| 59 | g-Factor of the 53 keV 5/2? state in197Pt measured by the TDPAC method. Hyperfine Interactions, 1981, 9, 93-97. | 0.5 | 3 |
| 60 | Directional correlation measurements for gamma transitions inTe127. Physical Review C, 1985, 31, 593-601. | 2.9 | 3 |
| 61 | Directional correlations of Î³ transitions inXe135following the decay ofI135. Physical Review C, 1991, 43, 2586-2590. | 2.9 | 3 |
| 62 | Directional correlation of Î³ transitions inGe72following the decay ofGa72. Physical Review C, 1994, 50, 733-740. | 2.9 | 3 |
| 63 | Hyperfine Interactions in CeT2Ge2 (T = Mn, Co) Heavy Fermions Compounds Measured by TDPAC. Hyperfine Interactions, 2001, 136/137, 345-349. | 0.5 | 3 |
| 64 | Installation of the IMPAC technique in the Pelletron laboratory. Brazilian Journal of Physics, 2003, 33, 291-293. | 1.4 | 3 |
| 65 | Electronic structure of the n-type doped AgInO2 and CuAlO2 delafossites: similarities and differences. Brazilian Journal of Physics, 2004, 34, 611-613. | 1.4 | 3 |
| 66 | Different nature of magnetism at cerium sublattices in CeMn2Si2 and CeMn2Ge2 compounds. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 633-634. | 2.3 | 3 |
| 67 | Magnetic hyperfine fields at Gd and in sites in GdPdIn compound. Hyperfine Interactions, 2007, 176, 75-79. | 0.5 | 3 |
| 68 | Characterization of magnetic phase transitions in PrMn2Ge2 compound investigated by magnetization and hyperfine field measurements. AIP Advances, 2017, 7, 056211. | 1.3 | 3 |
| 69 | Low temperature synthesis of pure and Fe-doped HfSiO4: Determination of Si and Fe fractions by neutron activation analysis. Radiation Physics and Chemistry, 2019, 155, 287-290. | 2.8 | 3 |
| 70 | DFT-based calculations of the magnetic hyperfine interactions at Cd sites in RCd (R = rare earth) compounds with the FP-LAPW ELK code. AIP Advances, 2021, 11, . | 1.3 | 3 |
| 71 | PAC Measurements on New Ferromagnetic Compound Pd2TiSn. Hyperfine Interactions, 2001, 133, 83-87. | 0.5 | 2 |
| 72 | Implantation of 111In-probe Nuclei with Nuclear Reactions 108Pd(6, 7Li, xn)111In using Pelletron Tandem Accelerator: Study of Local Magnetism in Heusler Alloys. Hyperfine Interactions, 2004, 158, 223-227. | 0.5 | 2 |

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|---|---|---|---|
| 73 | Spin transitions of Co ions in RCoO3â€ˆ(R=Gd,Tb) investigated by measuring the electric field gradient at R and Co sites. Journal of Applied Physics, 2008, 103, . | 2.5 | 2 |
| 74 | Characterization of nanostructured HfO2 films using Perturbed Angular Correlation (PAC) technique. Hyperfine Interactions, 2010, 198, 41-45. | 0.5 | 2 |
| 75 | Magnetic hyperfine field in antiferromagnetic RGa2 (R = Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er) studied by perturbed angular correlation spectroscopy using Cd111. Journal of Applied Physics, 2013, 113, 17E139. | 2.5 | 2 |
| 76 | Investigation of the magnetic hyperfine field at R and Zn sites in RZn (Râ€‰=â€‰Gd, Tb, Dy) compounds using perturbed gamma-gamma angular correlation spectroscopy with 140Ce and 111Cd as probe nuclei. Journal of Applied Physics, 2013, 113, 17E136. | 2.5 | 2 |
| 77 | Effects of an external magnetic field on the hyperfine parameters in RE2O3 (RE = Gd, Er) nanoparticles measured by perturbed angular correlation spectroscopy. AIP Advances, 2020, 10, 015039. | 1.3 | 2 |
| 78 | Ionic Size Induced Defects in Lead Titanate-Zirconate Perovskite Studied by TDPAC Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1998, 53, 318-322. | 1.5 | 1 |
| 79 | Study of Hyperfine Fields in CeIn3 by Electronic Structure Calculations. Hyperfine Interactions, 2001, 136/137, 743-747. | 0.5 | 1 |
| 80 | Measurement of Quadrupole Interactions in LaMO3 (M = Cr, Fe, Co) Perovskites by TDPAC. Hyperfine Interactions, 2001, 136/137, 509-513. | 0.5 | 1 |
| 81 | Temperature dependence of the magnetic hyperfine field at cerium impurity in Co. Hyperfine Interactions, 2007, 176, 69-73. | 0.5 | 1 |
| 82 | Study of hyperfine interactions in the intermetallic compound CePd2Si2 using PAC technique with 111Cd as probe nuclei. Hyperfine Interactions, 2007, 176, 81-85. | 0.5 | 1 |
| 83 | Temperature dependence of electric field gradient in TbCoO3. Hyperfine Interactions, 2007, 178, 7-11. | 0.5 | 1 |
| 84 | Hyperfine interaction study of CeRh2Si2 with perturbed Î³-Î³ angular correlation spectroscopy using C111d and C140e probes. Journal of Applied Physics, 2010, 107, 09E141. | 2.5 | 1 |
| 85 | A weak magnetism observed in SnO2 doped with Fe by means of Perturbed Gamma-Gamma Angular Correlation and MÃ¶ssbauer Spectroscopy. Physics Procedia, 2012, 28, 90-94. | 1.2 | 1 |
| 86 | Study of electric quadrupole interactions at 111Cd on Zn sites in RZn (R = Ce, Gd, Tb, Dy) compounds using the PAC spectroscopy. Hyperfine Interactions, 2013, 221, 59-64. | 0.5 | 1 |
| 87 | Hyperfine field at Mn in the intermetallic compound LaMnSi2 measured by PAC using 111Cd nuclear probe. Hyperfine Interactions, 2015, 231, 95-99. | 0.5 | 1 |
| 88 | Magnetic interactions at Ce impurities in REMn2Ge2 (REÂ=ÂLa, Ce, Pr, Nd) compounds. Physica B: Condensed Matter, 2018, 536, 137-141. | 2.7 | 1 |
| 89 | Magnetic field at Ce impurities in La sites of La0.5Ba0.5MnO3 double perovskites. AIP Advances, 2019, 9, . | 1.3 | 1 |
| 90 | Local inspection of magnetic properties in GdMnIn by measuring hyperfine interactions. AIP Advances, 2021, 11, . | 1.3 | 1 |

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| 91 | Synthesis and characterization of Fe3O4-HfO2 nanoparticles by hyperfine interactions measurements. AIP Advances, 2021, 11, . | 1.3 | 1 |
| 92 | Measurement of Quadrupole Interactions in La1 â^' x Sr x CoO3 Perovskites Using TDPAC Technique. Hyperfine Interactions, 2004, 158, 401-405. | 0.5 | 0 |
| 93 | Study of hyperfine interactions in pure and Co-doped CeO2 nanoparticles by PAC spectroscopy using 111Cd. Hyperfine Interactions, 2010, 197, 233-237. | 0.5 | 0 |
| 94 | Study of hyperfine interactions in the tetragonal GdRh2Si2 using PAC spectroscopy. Hyperfine Interactions, 2013, 221, 53-58. | 0.5 | 0 |
| 95 | Anomalous behavior of the magnetic hyperfine field at 140Ce impurities at La sites in LaMnSi2. AIP Advances, 2018, 8, 055702. | 1.3 | 0 |
| 96 | Electric Field Gradient at Nb Site in the Intermetallic Compounds Nb3X (X = Al, In, Si, Ge, Sn) Measured by PAC. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 41-44. | 1.5 | 0 |
| 97 | The effect of Er doping on local structure of magnetite nanoparticles. Hyperfine Interactions, 2021, 242, 1. | 0.5 | 0 |