

RN Saxena

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Local inspection of magnetic properties in GdMnIn by measuring hyperfine interactions. AIP Advances, 2021, 11, .	1.3	1
2	Synthesis and characterization of Fe ₃ O ₄ -HfO ₂ nanoparticles by hyperfine interactions measurements. AIP Advances, 2021, 11, .	1.3	1
3	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
4	Locally symmetric oxygen vacancy around Cd impurities in CeO_2 . Physical Review B, 2021, 104, .		
5	The effect of Er doping on local structure of magnetite nanoparticles. Hyperfine Interactions, 2021, 242, 1.	0.5	0
6	Effects of an external magnetic field on the hyperfine parameters in RE ₂ O ₃ (RE = Gd, Er) nanoparticles measured by perturbed angular correlation spectroscopy. AIP Advances, 2020, 10, 015039.	1.3	2
7	Low temperature synthesis of pure and Fe-doped HfSiO ₄ : Determination of Si and Fe fractions by neutron activation analysis. Radiation Physics and Chemistry, 2019, 155, 287-290.	2.8	3
8	Magnetic field at Ce impurities in La sites of La _{0.5} Ba _{0.5} MnO ₃ double perovskites. AIP Advances, 2019, 9, .	1.3	1
9	Magnetic interactions at Ce impurities in REMn ₂ Ge ₂ (RE = La, Ce, Pr, Nd) compounds. Physica B: Condensed Matter, 2018, 536, 137-141.	2.7	1
10	Anomalous behavior of the magnetic hyperfine field at ¹⁴⁰ Ce impurities at La sites in LaMnSi ₂ . AIP Advances, 2018, 8, 055702.	1.3	0
11	Characterization of magnetic phase transitions in PrMn ₂ Ge ₂ compound investigated by magnetization and hyperfine field measurements. AIP Advances, 2017, 7, 056211.	1.3	3
12	Stable tetragonal phase and magnetic properties of Fe-doped HfO ₂ nanoparticles. AIP Advances, 2017, 7, 056315.	1.3	7
13	Magnetic hyperfine interactions on Cd sites of the rare-earth cadmium compounds R_2Cd . ^{3,2}		7
14	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
15	Hyperfine field at Mn in the intermetallic compound LaMnSi ₂ measured by PAC using ¹¹¹ Cd nuclear probe. Hyperfine Interactions, 2015, 231, 95-99.	0.5	1
16	The magnetic behavior of the intermetallic compound NdMn ₂ Ge ₂ studied by magnetization and hyperfine interactions measurements. Journal of Applied Physics, 2015, 117, 17E304.	2.5	8
17	Magnetic behavior of LaMn ₂ (Si _{1-x} Gex) ₂ compounds characterized by magnetic hyperfine field measurements. Journal of Applied Physics, 2014, 115, 17E124.	2.5	10
18	Magnetic hyperfine field in antiferromagnetic RGe ₂ (R = Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er) studied by perturbed angular correlation spectroscopy using ¹¹¹ Cd. Journal of Applied Physics, 2013, 113, 17E139.	2.5	2

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19	TDPAC measurements in pure and Fe-doped In ₂ O ₃ . <i>Hyperfine Interactions</i> , 2013, 221, 105-110.	0.5	6
20	Electric field gradient in nanostructured SnO ₂ studied by means of PAC spectroscopy using ¹¹¹ Cd or ¹⁸¹ Ta as probe nuclei. <i>Hyperfine Interactions</i> , 2013, 221, 129-136.	0.5	6
21	Study of hyperfine interactions in the tetragonal GdRh ₂ Si ₂ using PAC spectroscopy. <i>Hyperfine Interactions</i> , 2013, 221, 53-58.	0.5	0
22	Study of electric quadrupole interactions at ¹¹¹ Cd on Zn sites in RZn (R = Ce, Gd, Tb, Dy) compounds using the PAC spectroscopy. <i>Hyperfine Interactions</i> , 2013, 221, 59-64.	0.5	1
23	Investigation of the magnetic hyperfine field at R and Zn sites in RZn (R = Gd, Tb, Dy) compounds using perturbed gamma-gamma angular correlation spectroscopy with ¹⁴⁰ Ce and ¹¹¹ Cd as probe nuclei. <i>Journal of Applied Physics</i> , 2013, 113, 17E136.	2.5	2
24	Effect of Ge substitution for Si on the magnetic hyperfine field in LaMn ₂ Si ₂ compound measured by perturbed angular correlation spectroscopy with ¹⁴⁰ Ce as probe nuclei. <i>Journal of Applied Physics</i> , 2013, 113, 17E124.	2.5	10
25	Study of hyperfine interactions in GdIn ₃ . <i>Journal of Applied Physics</i> , 2013, 113, 17E133.	2.5	4
26	The effect of hybridization on local magnetic interactions at highly diluted Ce ions in tetragonal intermetallic compounds RERh ₂ Si ₂ (RE=Ce, Pr, Nd, Gd, Tb, Dy). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 416002.	1.8	15
27	Magnetic hyperfine field at highly diluted Ce impurities in the antiferromagnetic compound GdRh ₂ Si ₂ studied by perturbed gamma-gamma angular correlation spectroscopy. <i>Journal of Alloys and Compounds</i> , 2012, 515, 44-48.	5.5	21
28	A weak magnetism observed in SnO ₂ doped with Fe by means of Perturbed Gamma-Gamma Angular Correlation and Mössbauer Spectroscopy. <i>Physics Procedia</i> , 2012, 28, 90-94.	1.2	1
29	Investigation of hyperfine interactions in GdCrO ₃ perovskite oxide using PAC spectroscopy. <i>Hyperfine Interactions</i> , 2010, 197, 53-58.	0.5	4
30	Absence of room temperature ferromagnetism in transition metal doped ZnO nanocrystalline powders from PAC spectroscopy. <i>Hyperfine Interactions</i> , 2010, 197, 77-81.	0.5	4
31	Study of hyperfine interactions in pure and Co-doped CeO ₂ nanoparticles by PAC spectroscopy using ¹¹¹ Cd. <i>Hyperfine Interactions</i> , 2010, 197, 233-237.	0.5	0
32	Electric quadrupole interactions in nano-structured SnO ₂ as measured with PAC spectroscopy. <i>Hyperfine Interactions</i> , 2010, 197, 239-243.	0.5	11
33	Characterization of nanostructured HfO ₂ films using Perturbed Angular Correlation (PAC) technique. <i>Hyperfine Interactions</i> , 2010, 198, 41-45.	0.5	2
34	Search for Room Temperature Ferromagnetism in Low-Concentration Transition Metal Doped ZnO Nanocrystalline Powders Using a Microscopic Technique. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 1780-1783.	2.1	5
35	Local investigation of hyperfine interactions in pure and Co-doped ZnO. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1195-1197.	2.3	19
36	Magnetic hyperfine field at Nd sites in NdAg studied by perturbed angular correlation spectroscopy and ab-initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1130-1133.	2.3	5

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37	Hyperfine interaction study of CeRh ₂ Si ₂ with perturbed $\hat{I}^3\text{-}\hat{I}^3$ angular correlation spectroscopy using C111d and C140e probes. Journal of Applied Physics, 2010, 107, 09E141.	2.5	1
38	Investigation of spin transition in GdCoO ₃ by measuring the electric field gradient at Co sites. Journal of Magnetism and Magnetic Materials, 2008, 320, e32-e35.	2.3	5
39	Magnetic field at ¹⁴⁰ Ce 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
40	Spin transitions of Co ions in RCoO ₃ (R=Gd,Tb) investigated by measuring the electric field gradient at R and Co sites. Journal of Applied Physics, 2008, 103, .	2.5	2
41	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
42	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
43	Temperature dependence of the magnetic hyperfine field at cerium impurity in Co. Hyperfine Interactions, 2007, 176, 69-73.	0.5	1
44	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
45	Magnetic hyperfine fields at Gd and in sites in GdPdIn compound. Hyperfine Interactions, 2007, 176, 75-79.	0.5	3
46	Study of hyperfine interactions in the intermetallic compound CePd ₂ Si ₂ using PAC technique with ¹¹¹ Cd as probe nuclei. Hyperfine Interactions, 2007, 176, 81-85.	0.5	1
47	Characterization of ZnO and Zn _{0.95} Co _{0.05} O prepared by sol-gel method using PAC spectroscopy. Hyperfine Interactions, 2007, 178, 1-5.	0.5	7
48	Temperature dependence of electric field gradient in TbCoO ₃ . Hyperfine Interactions, 2007, 178, 7-11.	0.5	1
49	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
50	Study of the effect of disorder on the local magnetism in Heusler alloys. Journal of Applied Physics, 2006, 99, 08J104.	2.5	10
51	Temperature dependence of electric field gradient in LaCoO ₃ perovskite investigated by perturbed angular correlation spectroscopy. Journal of Physics Condensed Matter, 2005, 17, 6989-6997.	1.8	12
52	Electronic structure of the n-type doped AgInO ₂ and CuAlO ₂ delafossites: similarities and differences. Brazilian Journal of Physics, 2004, 34, 611-613.	1.4	3
53	Magnetic hyperfine interaction in CeMn ₂ Ge ₂ and CeMn ₂ Si ₂ measured by perturbed angular correlation spectroscopy. Physical Review B, 2004, 69, .	3.2	32
54	The low-temperature magnetism of cerium atoms in CeMn ₂ Si ₂ and CeMn ₂ Ge ₂ compounds. Journal of Physics Condensed Matter, 2004, 16, 6685-6693.	1.8	5

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55	Study of the local magnetic environment in LaMnO ₃ perovskite by measuring hyperfine interactions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1639-E1641.	2.3	6
56	Temperature Dependence of the Magnetic Hyperfine Field at ¹⁴⁰ Ce on Gd Sites in GdAg Compound. Hyperfine Interactions, 2004, 158, 125-129.	0.5	4
57	Investigation of Hyperfine Interactions in GdNiIn Compound. Hyperfine Interactions, 2004, 158, 157-161.	0.5	7
58	Implantation of ¹¹¹ In-probe Nuclei with Nuclear Reactions ¹⁰⁸ Pd(6, ⁷ Li, xn) ¹¹¹ In using Pelletron Tandem Accelerator: Study of Local Magnetism in Heusler Alloys. Hyperfine Interactions, 2004, 158, 223-227.	0.5	2
59	A Perturbed-Angular-Correlation Study of Hyperfine Interactions at ¹⁸¹ Ta in \hat{I}_{\pm} -Fe ₂ O ₃ . Hyperfine Interactions, 2004, 158, 371-375.	0.5	5
60	Measurement of Quadrupole Interactions in La _{1-x} Sr _x CoO ₃ Perovskites Using TDPAC Technique. Hyperfine Interactions, 2004, 158, 401-405.	0.5	0
61	Different nature of magnetism at cerium sublattices in CeMn ₂ Si ₂ and CeMn ₂ Ge ₂ compounds. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 633-634.	2.3	3
62	Changes induced by the presence of Zn or Ni impurity at Cu sites in CuAlO ₂ delafossite. Solid State Communications, 2003, 125, 175-178.	1.9	24
63	Installation of the IMPAC technique in the Pelletron laboratory. Brazilian Journal of Physics, 2003, 33, 291-293.	1.4	3
64	Influence of Cd impurity on the electronic properties of CuAlO ₂ delafossite: first-principles calculations. Journal of Physics Condensed Matter, 2002, 14, 5517-5528.	1.8	23
65	First-principles calculations of hyperfine fields in the CeIn ₃ intermetallic compound. Physical Review B, 2001, 65, .	3.2	19
66	Hyperfine interaction measurements in LaCrO ₃ and LaFeO ₃ perovskites using perturbed angular correlation spectroscopy. Physical Review B, 2001, 63, .	3.2	92
67	Hyperfine Interactions in CeT ₂ Ge ₂ (T = Mn, Co) Heavy Fermions Compounds Measured by TDPAC. Hyperfine Interactions, 2001, 136/137, 345-349.	0.5	3
68	Study of Hyperfine Fields in CeIn ₃ by Electronic Structure Calculations. Hyperfine Interactions, 2001, 136/137, 743-747.	0.5	1
69	Measurement of Quadrupole Interactions in LaMO ₃ (M = Cr, Fe, Co) Perovskites by TDPAC. Hyperfine Interactions, 2001, 136/137, 509-513.	0.5	1
70	Investigation of Hyperfine Interactions in CeIn ₃ by TDPAC. Hyperfine Interactions, 2001, 133, 77-81.	0.5	14
71	PAC Measurements on New Ferromagnetic Compound Pd ₂ TiSn. Hyperfine Interactions, 2001, 133, 83-87.	0.5	2
72	Electric Field Gradient at Nb Site in the Intermetallic Compounds Nb ₃ X (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

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73	Delafossite oxides ABO_2 (A=Ag,Cu; B=Al,Cr,Fe,In,Nd,Y) studied by perturbed-angular-correlation spectroscopy using a ^{111}Ag (^{125}I) ^{111}Cd probe. <i>Physical Review B</i> , 1998, 58, 2563-2569.	3.2	25
74	Ionic Size Induced Defects in Lead Titanate-Zirconate Perovskite Studied by TDPAC Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998, 53, 318-322.	1.5	1
75	Magnetic hyperfine field in the Heusler alloys Co_2YZ (Y = V, Nb, Ta, Cr; Z = Al, Ga). <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 163, 313-321.	2.3	105
76	Investigation of the magnetic hyperfine field at the Y site in the Heusler alloys (Y = Ti,V,Nb,Cr; Z =) $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50}$	1.8	16
77	X-ray and time differential perturbed angular correlation measurements in ZrCr_2 and ZrCr_2H_3 Laves phase compounds. <i>Journal of Alloys and Compounds</i> , 1995, 224, 60-65.	5.5	4
78	Directional correlation of \hat{I}^3 transitions in ^{72}Ge following the decay of ^{72}Ga . <i>Physical Review C</i> , 1994, 50, 733-740.	2.9	3
79	An irradiation rig for neutron transmutation doping of silicon in the IEA-R1 research reactor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 83, 157-162.	1.4	4
80	Magnetic hyperfine fields in the Heusler alloys Co_2YZ (Y=Sc, Ti, Hf, V, Nb; Z=Al, Ga, Si, Ge, Sn). <i>Hyperfine Interactions</i> , 1993, 80, 971-976.	0.5	21
81	Directional correlations of \hat{I}^3 transitions in ^{135}Xe following the decay of ^{135}I . <i>Physical Review C</i> , 1991, 43, 2586-2590.	2.9	3
82	Directional correlations of \hat{I}^3 transitions in ^{142}Ce . <i>Physical Review C</i> , 1990, 41, 2312-2319.	2.9	4
83	Gamma-gamma angular correlations in the decay of ^{76}As . <i>Physical Review C</i> , 1989, 39, 2379-2384.	2.9	4
84	Magnetic hyperfine fields in Heusler alloys Co_2YZ (Y=Ti,Zr; Z=Al,Ga,Sn). <i>Hyperfine Interactions</i> , 1987, 34, 431-434.	0.5	17
85	Directional correlation measurements for gamma transitions in ^{127}Te . <i>Physical Review C</i> , 1985, 31, 593-601.	2.9	3
86	g factor and the half-life of the 250 keV state in ^{77}Se . <i>Journal of Physics G: Nuclear Physics</i> , 1984, 10, 1571-1577.	0.8	5
87	Lifetimes and g-factor measurements in the decay of the 399 keV isomeric state in ^{197}Pt and the quasiparticle-phonon coupling model. <i>Physical Review C</i> , 1982, 25, 1587-1594.	2.9	4
88	g-Factor of the 53 keV $5/2^-$ state in ^{197}Pt measured by the TDPAC method. <i>Hyperfine Interactions</i> , 1981, 9, 93-97.	0.5	3
89	Magnetic hyperfine field on Ta in the Co_2HfAl and Co_2HfGa Heusler alloys. <i>Hyperfine Interactions</i> , 1981, 9, 489-493.	0.5	6
90	Gamma-gamma directional correlations for transitions in ^{84}Kr . <i>Physical Review C</i> , 1980, 21, 1531-1537.	2.9	3

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91	Directional correlations of gamma transitions in ^{105}Rh . Journal of Physics G: Nuclear Physics, 1979, 5, 1169-1177.	0.8	6
92	Electric quadrupole interactions in the CdTiO_3 perovskite. Journal of Physics and Chemistry of Solids, 1978, 39, 175-178.	4.0	6
93	Temperature dependence of electric field gradients at Cd and Hf sites in cadmium perovskites. Hyperfine Interactions, 1978, 4, 615-621.	0.5	4
94	Directional correlations of \hat{I}^3 -transitions in ^{134}Xe . Nuclear Physics A, 1974, 234, 357-364.	1.5	6
95	Spectrum of Tb^{3+} ion in LaBr_3 crystal. Journal of Luminescence, 1973, 6, 125-130.	3.1	26
96	Directional Correlation of the Gamma Transitions in Ce^{140} . Physical Review C, 1973, 7, 395-403.	2.9	7
97	Impurities in Magnetic Materials Studied by PAC Spectroscopy. Defect and Diffusion Forum, 0, 311, 39-61.	0.4	11