

A Bharathi

List of Publications by Year in descending order

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118
papers

1,736
citations

279798

23
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38
g-index

119
all docs

119
docs citations

119
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon solubility and superconductivity in MgB ₂ . Physica C: Superconductivity and Its Applications, 2002, 370, 211-218.	1.2	118
2	Superconductivity in Ru-substituted polycrystalline $\text{BaFe}_{1-x}\text{Ru}_x\text{As}_2$. Physical Review B, 2010, 81, .	3.2	113
3	Thermal decomposition of C ₆₀ . Solid State Communications, 1992, 84, 823-826.	1.9	96
4	Local charge-density change and superconductivity: A positron study. Physical Review Letters, 1990, 64, 1593-1596.	7.8	95
5	Pressure-induced superconductivity in BaFe ₂ As ₂ single crystal. Europhysics Letters, 2009, 87, 17004.	2.0	81
6	Vibrational, magnetic, and dielectric behavior of La-substituted BiFeO ₃ -PbTiO ₃ . Journal of Applied Physics, 2011, 110, .	2.5	69
7	A study of positron distribution and annihilation characteristics in YBa ₂ Cu ₃ O _{7-x} . Journal of Physics Condensed Matter, 1989, 1, 1467-1474.	1.8	53
8	Pressure-induced polymerization of fullerenes: A comparative study of C ₆₀ and C ₇₀ . Physical Review B, 1996, 53, 8180-8183.	3.2	53
9	Crystal structure and disorder in solid C ₇₀ . Physical Review B, 1993, 48, 9080-9085.	3.2	49
10	Pressure-induced metallization of BaMn ₂ As ₂ . Physical Review B, 2011, 84, .	3.2	44
11	Synthesis, characterization and low temperature studies of iron chalcogenide superconductors. Journal of Alloys and Compounds, 2009, 486, 37-41.	5.5	41
12	Positron distribution contribution to changes in annihilation characteristics across T _c in high-temperature superconductors. Physical Review B, 1990, 42, 10199-10210.	3.2	40
13	Synthesis and search for superconductivity in LiBC. Solid State Communications, 2002, 124, 423-428.	1.9	40
14	Nucleation and growth of helium bubbles in nickel studied by positron-annihilation spectroscopy. Physical Review B, 1992, 45, 10231-10241.	3.2	38
15	Positron annihilation in C ₆₀ . Physical Review B, 1992, 45, 12126-12129.	3.2	36
16	Positron-annihilation studies on the Bi-Sr-Ca-Cu-O superconductor. Physical Review B, 1991, 43, 13019-13024.	3.2	30
17	Pressure induced dimerisation of C ₇₀ . Solid State Communications, 1997, 104, 237-242.	1.9	30
18	Structure and vibrational properties of carbon tubules. Pramana - Journal of Physics, 1994, 42, 375-385.	1.8	27

#	ARTICLE	IF	CITATIONS
19	Positron studies across the superconducting transition in Y1Ba2Cu3O7-x. Physica C: Superconductivity and Its Applications, 1988, 153-155, 155-156.	1.2	26
20	Stoichiometric carbon substitution in MgB2. Superconductor Science and Technology, 2004, 17, 1401-1405.	3.5	26
21	Response of positrons to clustering in Al-Zn alloys. Journal of Physics F: Metal Physics, 1988, 18, 363-375.	1.6	24
22	Temperature dependence of positron annihilation parameters in Tl-Ba-Ca-Cu-O superconductors. Physical Review B, 1990, 42, 2193-2199.	3.2	24
23	Pressure-induced insulator-metal transition of localized states in FeSi1-xGex. Physical Review B, 2001, 63, .	3.2	24
24	Positron Annihilation Study of Oxygen Vacancies in Y₁Ba₂Cu₃O_{7-x}. Europhysics Letters, 1988, 6, 369-374.	2.0	23
25	Magnetic and transport behavior of Ni-substituted GdBaCo2O5+δ perovskite. Physical Review B, 2008, 77, .	3.2	22
26	Magnetic behavior of the metal organic framework [(CH₃)₂NH₂]Co(HCOO)₃. RSC Advances, 2015, 5, 37818-37822.	3.6	18
27	Intricacies of strain and magnetic field induced charge order melting in Pr0.5Ca0.5MnO3 thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 2823-2827.	2.3	17
28	Specific heat study of C60 single crystals. Solid State Communications, 1994, 92, 715-719.	1.9	16
29	Pressure-induced band gap reduction, orientational ordering and reversible amorphization in single crystals of C₇₀: Photoluminescence and Raman studies. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 347-358.	0.6	15
30	Peculiarities in the carbon substitution of MgB2. Physica C: Superconductivity and Its Applications, 2004, 407, 31-38.	1.2	15
31	Structural investigations in BaFe₂RuAs₂ as a function of Ru and temperature. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 61-67.	1.1	15
32	Positron annihilation measurements across the superconducting transition in Y1Ba2Cu3O7-x. Pramana - Journal of Physics, 1988, 30, L161-L165.	1.8	14
33	Positron annihilation studies in the Nd-Ce-Cu-O superconductor. Physical Review B, 1990, 42, 426-431.	3.2	13
34	Evolution of the Kondo insulating gap in Fe1-xRuSi. Physical Review B, 2002, 65, .	3.2	13
35	Magnetisation studies of phase co-existence in Gd1-xCaxBaCo2O5.5. Materials Research Bulletin, 2012, 47, 941-946.	5.2	13
36	Critical current density and magnetic phase diagrams of BaFe1.29Ru0.71As2 single crystals. Superconductor Science and Technology, 2013, 26, 015009.	3.5	13

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37	Positron-lifetime studies in YNi ₂ B ₂ C. Physical Review B, 1996, 53, R2971-R2974.	3.2	12
38	Resistivity studies in the Kondo insulating system, FeSi _{1-x} Gex. Physica B: Condensed Matter, 1997, 240, 1-7.	2.7	12
39	Positron-annihilation studies on the YBa ₂ Cu ₄ O ₈ superconductor. Physical Review B, 1990, 41, 11685-11688.	3.2	11
40	Ground state changes induced by Ni substitution in Na _x CoO ₂ . Solid State Communications, 2006, 138, 489-493.	1.9	11
41	Positron annihilation studies of rare-earth mixed valence compounds. Bulletin of Materials Science, 1980, 2, 207-216.	1.7	9
42	A positron annihilation study of the decomposition of Y ₁ Ba ₂ Cu ₃ O _{7-x} . Physica C: Superconductivity and Its Applications, 1990, 167, 149-156.	1.2	9
43	Crystal structure of solid C ₇₀ . Pramana - Journal of Physics, 1993, 40, L137-L144.	1.8	9
44	Metal insulator transition in Fe ₂ VAl _{1-x} Si _x . Journal of Alloys and Compounds, 2001, 326, 183-187.	5.5	9
45	Infrared spectroscopic study of the local structural changes across the metal insulator transition in nickel-doped GdBaCo ₂ O _{5.5} . Journal of Solid State Chemistry, 2010, 183, 2602-2608.	2.9	9
46	Polaronic transport in the ferromagnetic phase of. Solid State Communications, 2011, 151, 1511-1514.	1.9	9
47	Observation of superconductivity in SrMnBi ₂ and Bi interface. Solid State Communications, 2014, 192, 60-63.	1.9	9
48	Elimination of broad-host range plasmid vectors in Escherichia coli by curing agents. FEMS Microbiology Letters, 1991, 84, 37-40.	1.8	8
49	X-ray-diffraction study of solid C ₇₀ . Powder Diffraction, 1996, 11, 5-6.	0.2	8
50	Sr ²⁺ doping effects on the transport and magnetic properties of GdBaCo ₂ O _{5+x} . Physica B: Condensed Matter, 2008, 403, 631-635.	2.7	8
51	Critical properties of superconducting Ba _{1-x} K _x Fe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2010, 470, 8-11.	1.2	8
52	Kohler's rule in. Solid State Communications, 2010, 150, 1940-1943.	1.9	8
53	Temperature dependence of positron lifetime in GaAs crystals with defects. Pramana - Journal of Physics, 1979, 13, 625-636.	1.8	7
54	Metal-insulator transition in V ₂ O ₃ : positron lifetime studies. Journal of Alloys and Compounds, 2001, 326, 105-107.	5.5	7

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55	Study of the effect of Ni substitution and external pressure in Li ₂ Pd ₃ B superconductor. Physica C: Superconductivity and Its Applications, 2005, 433, 139-145.	1.2	7
56	Raman scattering investigation of electron-phonon coupling in carbon substituted MgB ₂ . Journal of Physics Condensed Matter, 2005, 17, 3285-3292.	1.8	7
57	The pressure induced insulator to metal transition in FeSb ₂ . Journal of Physics Condensed Matter, 2012, 24, 075601.	1.8	7
58	Influence of Ni doping on the electrical and structural properties of FeSb ₂ . Physica Status Solidi (B): Basic Research, 2012, 249, 1756-1760.	1.5	7
59	Transport and magnetic properties of yttrium doped NdFeAs(O,F) superconductor. Journal of Alloys and Compounds, 2013, 566, 43-49.	5.5	7
60	Magnetization and magneto-transport studies on Fe ₂ VAl _{1-x} Si _x . Journal of Alloys and Compounds, 2015, 648, 34-38.	5.5	7
61	A Positron Annihilation Study of Clustering of Ag Atoms in a Quenched Al ₉₁ at% Ag Alloy. Physica Status Solidi A, 1987, 102, 139-143.	1.7	6
62	Positron studies on Y ₁ Ba ₂ Cu ₃ O _{7-x} : Charged oxygen vacancies?. Physica C: Superconductivity and Its Applications, 1988, 153-155, 111-112.	1.2	6
63	Ce-substitution effects in GdBaCo ₂ O _{5+δ} . Solid State Communications, 2007, 144, 215-219.	1.9	6
64	Magnetic phase evolution in Fe substituted GdBaCo ₂ O _{5.5} . Journal of Magnetism and Magnetic Materials, 2010, 322, 152-157.	2.3	6
65	THERMAL AND MAGNETIC RESPONSE OF DIVALENT Sr DOPED HEXAGONAL YMnO ₃ . Modern Physics Letters B, 2012, 26, 1250201.	1.9	6
66	Influence of Ni Doping on the Low Temperature Properties of Layered Fe _{1-x} Te. Journal of Superconductivity and Novel Magnetism, 2012, 25, 209-214.	1.8	6
67	Magneto-resistance in pristine and irradiated TaAs ₂ . AIP Advances, 2019, 9, 045020.	1.3	6
68	A positron lifetime study of cellular precipitation in Al-22 at.% Zn alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1988, 58, 705-716.	0.6	5
69	Phase instability in Y ₁ Ba ₂ Cu ₃ O _{7-x} . Physica C: Superconductivity and Its Applications, 1989, 162-164, 887-888.	1.2	5
70	Metal-insulator transition in Ni-doped Na _{0.75} CoO ₂ : Insights from infrared studies. Pramana - Journal of Physics, 2006, 67, 153-162.	1.8	5
71	Tunable resistivity in magnetic glass phase of Gd _{1-x} Ca _x BaCo ₂ O _{5.5} . Journal of Physics Condensed Matter, 2013, 25, 436001.	1.8	5
72	Positron Annihilation Study of Precipitation in Al-22 at. % Zn Alloy. Materials Science Forum, 0, 3, 379-385.	0.3	4

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73	Computation of the position distribution in oxide superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1307-1308.	1.2	4
74	Studies on Fullerenes Using Positron Annihilation Spectroscopy. Fullerenes, Nanotubes, and Carbon Nanostructures, 1995, 3, 661-679.	0.6	4
75	Positron-lifetime studies in the Kondo insulator FeSi. Physical Review B, 1997, 55, R13385-R13388.	3.2	4
76	Superconductivity in MgB ₂ : Phonon modes and influence of carbon doping. Sadhana - Academy Proceedings in Engineering Sciences, 2003, 28, 263-272.	1.3	4
77	Specific heat studies on Ru substituted FeSi Kondo Insulator. Solid State Communications, 2008, 146, 391-394.	1.9	4
78	Upper critical field and thermopower studies in Ni substituted Li ₂ Pd ₃ B superconductor. Solid State Communications, 2009, 149, 899-902.	1.9	4
79	Phase diagram of Ru doped BaFe ₂ As ₂ . , 2012, , .		4
80	Evolution of ferromagnetic clustering in Pr _{0.5} Ca _{0.5} MnO ₃ and its effect on the critical temperature of YBa ₂ Cu ₃ O ₇ thin film. Journal of Applied Physics, 2012, 111, 113910.	2.5	4
81	Synthesis, electrical transport and Mössbauer spectroscopy study of the layered iron tellurides Fe _{1-x} Ni _x Te. Physica Status Solidi (B): Basic Research, 2012, 249, 134-137.	1.5	4
82	Unification of the pressure and composition dependence of superconductivity in Ru substituted BaFe ₂ As ₂ . Solid State Communications, 2014, 185, 62-66.	1.9	4
83	A magneto-resistance and magnetisation study of TaAs ₂ semimetal. AIP Conference Proceedings, 2018, , .	0.4	4
84	Elimination of ColE1 (pBR322 and pBR329) plasmids in Escherichia coli by λ -santonin. FEMS Microbiology Letters, 1990, 68, 213-215.	1.8	3
85	X-ray powder diffraction data of CoSi. Powder Diffraction, 1997, 12, 252-254.	0.2	3
86	Effect of nickel substitution on thermal properties of Na _{0.9} CoO ₂ . Bulletin of Materials Science, 2007, 30, 345-348.	1.7	3
87	High pressure studies on Ru ₃ single crystal. Journal of Physics Condensed Matter, 2011, 23, 205802.	1.8	3
88	⁵⁷ Fe Mössbauer studies across the spin density wave transition in BaFe _{2-x} Ru _x As ₂ . Journal of Physics Condensed Matter, 2014, 26, 356002.	1.8	3
89	The electronic properties of high T _c superconductors probed by positron annihilation. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1379-1380.	1.2	2
90	Positron annihilation measurements in La _{2-x} Sr _x CuO ₄ as a function of Sr doping. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1309-1310.	1.2	2

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91	Temperature Dependence of Positron Annihilation Parameters in High Temperature Superconductors. Materials Science Forum, 1992, 105-110, 477-484.	0.3	2
92	Temperature dependence of infrared and Raman modes in polymeric RbC 60. Journal of Physics and Chemistry of Solids, 2002, 63, 1639-1646.	4.0	2
93	Specific heat studies on pristine and oxygenated iron tellurides. Solid State Communications, 2011, 151, 1210-1213.	1.9	2
94	⁷⁵ As NMR study of antiferromagnetic fluctuations in Ba(Fe _{1-x} Ru _x) ₂ As ₂ . Journal of Physics Condensed Matter, 2011, 23, 475701.	1.8	2
95	Positron lifetime studies in borocarbides. Physica B: Condensed Matter, 1996, 223-224, 123-125.	2.7	1
96	Positron lifetime measurements and electronic structure of CeNiSn. Physical Review B, 2000, 61, 10677-10681.	3.2	1
97	Isoelectronic Substitution, External Pressure and Superconductivity in BaFe ₂ As ₂ . , 2011, , .		1
98	High pressure studies on topological insulator Bi ₂ Se ₃ . , 2013, , .		1
99	The effects of strain, current, and magnetic field on superconductivity in Pr _{0.5} Ca _{0.5} MnO ₃ /YBa ₂ Cu ₃ O ₇ /Pr _{0.5} Ca _{0.5} MnO ₃ trilayer. Journal of Applied Physics, 2013, 113, 113902.	2.5	1
100	Study of thermally induced spin state transition in NdCoO ₃ single crystal. , 2013, , .		1
101	Development of ferromagnetic Co _{1.5} Fe _{1.5} O ₄ ferrite by varying pH value during chemical co-precipitation. , 2013, , .		1
102	Curie-Weiss behavior of Y _{1-x} Sr _x MnO ₃ (x = 0 and 0.03). AIP Conference Proceedings, 2015, , .	0.4	1
103	Validity of Kohler's rule for the magneto-resistance in pristine and irradiated NbAs ₂ . Solid State Communications, 2020, 305, 113734.	1.9	1
104	Positron Annihilation Studies of High Temperature Superconductors. , 1990, , 335-349.		1
105	Study of clustering of vacancies in cold-worked nickel by positron annihilation spectroscopy. Crystal Research and Technology, 1987, 22, 1529-1532.	1.3	0
106	Systematics of Chromatographic Separations of Fullerenes in Silica-Gel Activated Charcoal Mixtures. Fullerenes, Nanotubes, and Carbon Nanostructures, 1994, 2, 59-71.	0.6	0
107	Magnetization and Magnetoresistance Measurements in GdBaCo _{2-x} Ni _x O _{5.5} . AIP Conference Proceedings, 2008, , .	0.4	0
108	Effect Of Ca Doping On Structural, Magnetic And Electrical Properties Of GdBaCo ₂ O _{5.5±$\hat{1}$} . AIP Conference Proceedings, 2008, , .	0.4	0

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109	Magnetic Properties of $\text{RBaCo}_{2-x}\text{Ru}_x\text{O}_{5+\delta}$ ($\delta = \text{Gd, Nd}$). , 2011, , .		0
110	Transport behavior of $\text{GdBaCo}_{2-x}\text{Fe}_x\text{O}_{5.5+\delta}$. , 2012, , .		0
111	Magnetic ordering in La-substituted $\text{BiFeO}_3\text{-PbTiO}_3$. , 2012, , .		0
112	Effect of current induced charge-order melting of $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ in partially masked superconducting $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ bilayer. Journal of Applied Physics, 2013, 114, 233901.	2.5	0
113	Effect of ionic-size change of the rare earth ion on the electrical properties of the hole doped double perovskite $\text{Gd}_{0.95}\text{Sr}_{0.05}\text{BaCo}_2\text{O}_{5.5}$. , 2013, , .		0
114	Thickness-dependent electrical resistivity evolution in $\text{Fe}_{1-x}\text{Ni}_x\text{Sb}_2$ thin films. Solid State Communications, 2014, 194, 30-34.	1.9	0
115	Spin density wave (SDW) transition in Ru doped BaFeAs_2 investigated by AC steady state calorimetry. AIP Conference Proceedings, 2015, , .	0.4	0
116	Interplay of superconductivity and magnetic fluctuations in single crystals of $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$. AIP Conference Proceedings, 2018, , .	0.4	0
117	Electrical Resistivity and Positron Lifetime Studies in the Kondo Insulating System, $\text{FeSi}_{1-x}\text{Ge}_x$. , 1998, , 170-176.		0
118	Pressure-Induced Polymerisation of Fullerenes. , 1998, , 376-383.		0