

Gary S Collins

List of Publications by Year in descending order

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papers

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86
docs citations

86
times ranked

227
citing authors

#	ARTICLE	IF	CITATIONS
1	Solute-solute interactions in intermetallic compounds. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.2	0
2	Segregation of solute atoms to interphase boundaries in GdNi ₂ . <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.2	1
3	Site occupation of indium and jump frequencies of cadmium in FeGa ₃ . <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	3
4	Determination of the crystal structures of In ₇₀ Ni ₃₀ and In ₇₀ Pd ₃₀ using perturbed angular correlation. <i>Hyperfine Interactions</i> , 2013, 221, 73-78.	0.2	0
5	Nuclear quadrupole interactions of ¹¹¹ In/Cd solute atoms in a series of rare-earth palladium alloys. <i>Hyperfine Interactions</i> , 2013, 221, 85-98.	0.2	8
6	Nuclear quadrupole interactions of ¹¹¹ In/Cd solute atoms in a series of rare-earth palladium alloys. , 2012, , 179-192.		0
7	Determination of the crystal structures of In ₇₀ Ni ₃₀ and In ₇₀ Pd ₃₀ using perturbed angular correlation. , 2012, , 167-172.		0
8	Relating PAC damping to EFG fluctuation rates through the PAC relaxation peak. <i>Hyperfine Interactions</i> , 2011, 199, 397-402.	0.2	3
9	Change of Diffusion Mechanism with Lattice Parameter in the Series of Lanthanide Indides Having L Structures. <i>Physical Review Letters</i> , 2009, 102, 155901.	2.9	24
10	Diffusion of ¹¹¹ Cd probes in Ga ₇ Pt ₃ studied via nuclear quadrupole relaxation. , 2008, , 333-336.		0
11	Site preferences of indium impurity atoms in intermetallics having Al ₃ Ti or Al ₃ Zr crystal structures. , 2008, , 143-147.		0
12	Simultaneous Measurement of Tracer Jump Frequencies on Different Sublattices in Ga ₇ Pt ₃ and Pd ₃ Using PAC. <i>Defect and Diffusion Forum</i> , 2007, 264, 27-32.	0.4	12
13	Site preferences of indium impurity atoms in intermetallics having Al ₃ Ti or Al ₃ Zr crystal structures. <i>Hyperfine Interactions</i> , 2007, 177, 15-19.	0.2	6
14	Diffusion of ¹¹¹ Cd probes in Ga ₇ Pt ₃ studied via nuclear quadrupole relaxation. <i>Hyperfine Interactions</i> , 2007, 178, 87-90.	0.2	7
15	Nonstoichiometry in line compounds. <i>Journal of Materials Science</i> , 2007, 42, 1915-1919.	1.7	15
16	High-Temperature Polymorph of In ₂ La. <i>ChemInform</i> , 2005, 36, no.	0.1	0
17	PAC Probes as Diffusion Tracers in Solids. <i>Hyperfine Interactions</i> , 2005, 159, 1-8.	0.2	17
18	Diffusion in Intermetallic Compounds Studied Using Nuclear Quadrupole Relaxation. <i>Defect and Diffusion Forum</i> , 2005, 237-240, 195-200.	0.4	16

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19	Jump Frequency of Cd Tracer Atoms in $\hat{\text{I}}^2\text{-Mn}$. Defect and Diffusion Forum, 2005, 237-240, 396-401.	0.4	5
20	High-temperature polymorph of In_2La . Journal of Alloys and Compounds, 2005, 387, 20-23.	2.8	5
21	PAC Probes as Diffusion Tracers in Solids. , 2005, , 443-450.		2
22	Polymorphic Phase Transformation in In_2La and CeIn_2 . , 2005, , 305-308.		0
23	Atom Movement in In_3La Studied via Nuclear Quadrupole Relaxation. Physical Review Letters, 2004, 92, 225901.	2.9	29
24	Temperature- and composition-driven changes in site occupation of indium solutes in $\text{Gd}_{1+3x}\text{Al}_2\text{a}^{\sim}3x$. Physical Review B, 2004, 69, .	1.1	18
25	Polymorphic Phase Transformation in In_2La and CeIn_2 . Hyperfine Interactions, 2004, 158, 305-308.	0.2	2
26	Composition-driven changes in lattice sites occupied by indium solutes in Ni_2Al_3 phases. Physical Review B, 2004, 70, .	1.1	21
27	Charge Transfer Model for Quadrupole Interactions and Binding Energies of Point Defects with $^{111}\text{In}/\text{Cd}$ Probes in Cubic Metals. Hyperfine Interactions, 2003, 151/152, 77-91.	0.2	5
28	Influences of Lattice Sinks and Defect Interactions on Solutes in Compounds. Materials Research Society Symposia Proceedings, 2002, 719, 8191.	0.1	0
29	Nucleation of embryos of a second phase by individual impurity atoms. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 920-924.	2.6	3
30	Stochastic Model of PAC Nuclear Relaxation Caused by Defects Hopping on a Simple Cubic Lattice. Hyperfine Interactions, 2001, 136/137, 627-632.	0.2	0
31	Site Preference Model for Hyperfine Impurities in Compounds. Hyperfine Interactions, 2001, 136/137, 641-646.	0.2	17
32	Segregation of Solutes in Two-Phase Mixtures. Hyperfine Interactions, 2001, 136/137, 653-658.	0.2	4
33	Site Preferences of Hyperfine Impurities in Ni_2Al_3 Phases. Hyperfine Interactions, 2001, 136/137, 647-652.	0.2	3
34	Vacancy-Vacancy Interactions in NiAl . Defect and Diffusion Forum, 2001, 194-199, 383-388.	0.4	7
35	Vacancy Jumps in PdIn : Reconciling Nuclear Relaxation and Diffusion Measurements. Defect and Diffusion Forum, 2001, 194-199, 375-382.	0.4	4
36	Structural, thermal and deformation-induced point defects in PdIn . Hyperfine Interactions, 2000, 130, 151-179.	0.2	19

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37	Search for Nucleation of Phase Embryos in Binary Alloys by Impurity Atoms. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 129-133.	0.7	1
38	Vacancy Mobility in Nickel Aluminide Versus Composition. Materials Research Society Symposia Proceedings, 1998, 527, 203.	0.1	4
39	Stochastic Vacancy Motion in B2 Intermetallics Detected by PAC. Materials Research Society Symposia Proceedings, 1998, 527, 209.	0.1	2
40	Thermal Defects in B2 Iron Aluminide. Materials Research Society Symposia Proceedings, 1998, 552, 1.	0.1	5
41	Equilibrium Defects and Concentrations in Nickel Aluminide. Materials Research Society Symposia Proceedings, 1998, 552, 1.	0.1	0
42	Disordering of FeAl by Mechanical Milling. Materials Science Forum, 1997, 235-238, 535-540.	0.3	14
43	Point Defects And The B2 To Fcc Transformation In Milled FeRh. Materials Research Society Symposia Proceedings, 1997, 481, 631.	0.1	3
44	Atomic Defects and Disorder in Mechanically-Milled Intermetallic Compounds. Materials Science Forum, 1996, 225-227, 275-280.	0.3	6
45	Mössbauer and PAC studies of nanocrystalline Fe. Hyperfine Interactions, 1994, 92, 949-953.	0.2	14
46	Formation of Ni ₃ Fe by mechanical alloying. Hyperfine Interactions, 1994, 92, 955-958.	0.2	10
47	A New Approach to Study Vacancy Defects in High-Temperature Intermetallic Compounds. Materials Research Society Symposia Proceedings, 1994, 364, 59.	0.1	1
48	Indium metal nanoclusters studied by PAC. Hyperfine Interactions, 1993, 80, 1117-1120.	0.2	2
49	Application of PAC to study equilibrium point defects in intermetallic compounds. Hyperfine Interactions, 1993, 80, 1257-1261.	0.2	8
50	Equilibrium point defects in TiAl studied by PAC. Hyperfine Interactions, 1993, 79, 745-748.	0.2	7
51	Hydrogen binding in vacancy clusters in platinum. Hyperfine Interactions, 1993, 79, 749-753.	0.2	1
52	Atomic diffusion in strain fields near solutes. Hyperfine Interactions, 1993, 79, 755-760.	0.2	2
53	Grain boundary sites in fcc metals studied by PAC. Hyperfine Interactions, 1993, 79, 761-764.	0.2	9
54	The martensitic phase transition in NiTi. Hyperfine Interactions, 1993, 80, 995-998.	0.2	2

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55	Formation of FeCo by mechanical alloying. Scripta Metallurgica Et Materialia, 1993, 29, 1319-1323.	1.0	18
56	Pressure dependence of the hyperfine field of a Cd probe in a relaxed trivacancy complex in Ni. Physical Review B, 1992, 45, 4672-4675.	1.1	4
57	Cage motion of a probe atom in a vacancy complex in Pt. Hyperfine Interactions, 1990, 60, 651-653.	0.2	1
58	Point defects in NiAl near the equiatomic composition. Hyperfine Interactions, 1990, 60, 655-658.	0.2	18
59	Stacking fault defects in hep cobalt studied by PAC. Hyperfine Interactions, 1990, 60, 659-662.	0.2	2
60	Electrolytic loading of hydrogen in metals studied by PAC. Hyperfine Interactions, 1990, 60, 663-666.	0.2	0
61	Production and migration of interstitials in deformed metals. Hyperfine Interactions, 1990, 60, 667-670.	0.2	3
62	Laser surface-melting of metals studied by PAC. Hyperfine Interactions, 1990, 61, 1339-1342.	0.2	0
63	Perturbed ^{57}Fe angular correlations: A spectroscopy for point defects in metals and alloys. Hyperfine Interactions, 1990, 62, 1-34.	0.2	54
64	Hydrogen Decoration of Vacancy Defects in Platinum. , 1988, , 415-416.		3
65	Point Defects in Deformed Metals Studied by Perturbed Gamma-Gamma Angular Correlations. Materials Science Forum, 1987, 15-18, 783-788.	0.3	4
66	Hydrogen-Vacancy Interactions in Ni Studied by Perturbed Gamma-Gamma Angular Correlations. Materials Science Forum, 1987, 15-18, 681-684.	0.3	3
67	Defects in Laser Surface-Melted Metals Studied by Pac. Materials Research Society Symposia Proceedings, 1986, 82, 53.	0.1	1
68	Hydrogen and deuterium decoration of a vacancy complex in Ni. Physical Review B, 1986, 34, 502-505.	1.1	21
69	Vacancy migration and accretion in Ni observed by perturbed ^{57}Fe angular correlations. Physical Review B, 1985, 32, 4839-4848.	1.1	36
70	Anomalous critical slowing down of spin fluctuations in Gd observed with ^{161}Dy Mossbauer effect. Physical Review B, 1984, 30, 6277-6284.	1.1	19
71	Nuclear spin relaxation of ^{161}Dy in Gd above the Curie temperature observed with the ^{161}Dy Mossbauer effect. Hyperfine Interactions, 1983, 16, 617-620.	0.2	3
72	Comparison of defect recovery in proton irradiated, deformed and ion implanted nickel as observed by PAC of ^{111}In . Hyperfine Interactions, 1983, 15, 387-390.	0.2	8

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73	Trivacancy recovery and formation of a cubic symmetry defect trap on ^{111}In impurities in Ni. <i>Hyperfine Interactions</i> , 1983, 15, 391-394.	0.2	17
74	Anomalous temperature dependence of the quadrupole coupling frequency of a lattice defect trapped to ^{111}In in Pt. <i>Hyperfine Interactions</i> , 1983, 15, 395-399.	0.2	7
75	Defect recovery and trapping in plastically deformed Au studied by perturbed angular correlations of ^{111}In . <i>Physical Review B</i> , 1983, 28, 2940-2946.	1.1	11
76	Motion of Cadmium Tracer Atoms in Al_{11}R_3 Phases (R=La,Ce,Pr). <i>Defect and Diffusion Forum</i> , 0, 289-292, 755-761.	0.4	5
77	Jump Frequencies of Cd Tracer Atoms in L_1L_2 Lanthanide Gallides. <i>Defect and Diffusion Forum</i> , 0, 289-292, 725-732.	0.4	13
78	Comparison of Jump Frequencies of $^{111}\text{In}/\text{Cd}$ Tracer Atoms in Sn_3R and In_3R Phases Having the L_1L_2 Structure (R = Rare-Earth). <i>Defect and Diffusion Forum</i> , 0, 311, 159-166.	0.4	11
79	Diffusion in $\text{La}_n\text{Co}_{3n+2}$ Phases Studied by Perturbed Angular Correlation. <i>Defect and Diffusion Forum</i> , 0, 323-325, 453-458.	0.4	2
80	The Solubility of Indium in Liquid Gallium Supercooled to 12 K. <i>Defect and Diffusion Forum</i> , 0, 323-325, 503-508.	0.4	5
81	Diffusion in Binary and Pseudo-Binary L_1L_2 Indides, Stannides, Gallides and Aluminides of Rare-Earth Elements as Studied Using Perturbed Angular Correlation of $^{111}\text{In}/\text{Cd}$. <i>Defect and Diffusion Forum</i> , 0, 323-325, 447-452.	0.4	1
82	Impurity Diffusion in Highly-Ordered Intermetallic Compounds Studied by Nuclear Quadrupole Interactions. , 0, 2, 95-105.		0
83	Diffusion and Equilibration of Site-Preferences Following Transmutation of Tracer Atoms. , 0, 19, 61-79.		3
84	Atom Motion in Solids Following Nuclear Transmutation. , 0, 27, 186-196.		0
85	Simulation of Intrinsic Defects and Cd Site Occupation in LaIn_3 and LuIn_3 . , 0, 27, 40-49.		0