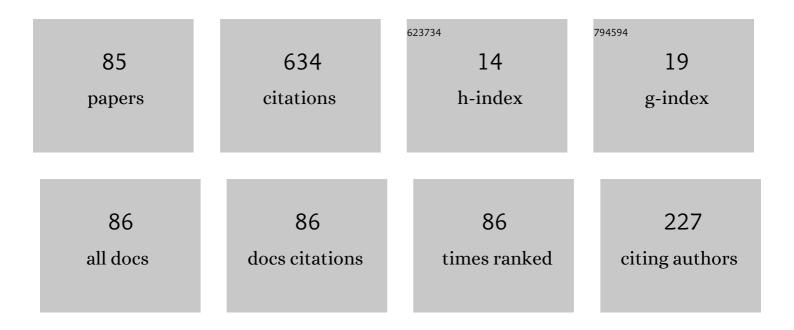
## **Gary S Collins**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solute-solute interactions in intermetallic compounds. Hyperfine Interactions, 2017, 238, 1.	0.5	Ο
2	Segregation of solute atoms to interphase boundaries in GdNi2. Hyperfine Interactions, 2017, 238, 1.	0.5	1
3	Site occupation of indium and jump frequencies of cadmium in FeGa 3. Hyperfine Interactions, 2016, 237, 1.	0.5	3
4	Determination of the crystal structures of In70-Ni30 and In70-Pd30 using perturbed angular correlation. Hyperfine Interactions, 2013, 221, 73-78.	0.5	0
5	Nuclear quadrupole interactions of 1111n/Cd solute atoms in a series of rare-earth palladium alloys. Hyperfine Interactions, 2013, 221, 85-98.	0.5	8
6	Nuclear quadrupole interactions of 1111n/Cd solute atoms in a series of rare-earth palladium alloys. , 2012, , 179-192.		0
7	Determination of the crystal structures of In70-Ni30 and In70-Pd30 using perturbed angular correlation. , 2012, , 167-172.		0
8	Relating PAC damping to EFG fluctuation rates through the PAC relaxation peak. Hyperfine Interactions, 2011, 199, 397-402.	0.5	3
9	Change of Diffusion Mechanism with Lattice Parameter in the Series of Lanthanide Indides Having <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>2</mml:mn>Physical Review Letters. 2009. 102. 155901.</mml:msub></mml:math>	> 718/1:m</td <td>ath<sup>2</sup>\$tructure</td>	ath <sup>2</sup> \$tructure
10	Diffusion of 111Cd probes in Ga7Pt3 studied via nuclear quadrupole relaxation. , 2008, , 333-336.		0
11	Site preferences of indium impurity atoms in intermetallics having Al3Ti or Al3Zr crystal structures. , 2008, , 143-147.		Ο
12	Simultaneous Measurement of Tracer Jump Frequencies on Different Sublattices in Ga <sub>7</sub> Pd <sub>3</sub> Using PAC. Defect and Diffusion Forum, 2007, 264, 27-32.	0.4	12
13	Site preferences of indium impurity atoms in intermetallics having Al3Ti or Al3Zr crystal structures. Hyperfine Interactions, 2007, 177, 15-19.	0.5	6
14	Diffusion of 111Cd probes in Ga7Pt3 studied via nuclear quadrupole relaxation. Hyperfine Interactions, 2007, 178, 87-90.	0.5	7
15	Nonstoichiometry in line compounds. Journal of Materials Science, 2007, 42, 1915-1919.	3.7	15
16	High-Temperature Polymorph of In2La ChemInform, 2005, 36, no.	0.0	0
17	PAC Probes as Diffusion Tracers in Solids. Hyperfine Interactions, 2005, 159, 1-8.	0.5	17
18	Diffusion in Intermetallic Compounds Studied Using Nuclear Quadrupole Relaxation. Defect and Diffusion Forum, 2005, 237-240, 195-200.	0.4	16

#	Article	IF	CITATIONS
19	Jump Frequency of Cd Tracer Atoms in $\hat{I}^2$ -Mn. Defect and Diffusion Forum, 2005, 237-240, 396-401.	0.4	5
20	High-temperature polymorph of In2La. Journal of Alloys and Compounds, 2005, 387, 20-23.	5.5	5
21	PAC Probes as Diffusion Tracers in Solids. , 2005, , 443-450.		2
22	Polymorphic Phase Transformation in In2La and CeIn2. , 2005, , 305-308.		0
23	Atom Movement inIn3LaStudied via Nuclear Quadrupole Relaxation. Physical Review Letters, 2004, 92, 225901.	7.8	29
24	Temperature- and composition-driven changes in site occupation of indium solutes inGd1+3xAl2â^'3x. Physical Review B, 2004, 69, .	3.2	18
25	Polymorphic Phase Transformation in In2La and Celn2. Hyperfine Interactions, 2004, 158, 305-308.	0.5	2
26	Composition-driven changes in lattice sites occupied by indium solutes inNi2Al3phases. Physical Review B, 2004, 70, .	3.2	21
27	Charge Transfer Model for Quadrupole Interactions and Binding Energies of Point Defects with111In/Cd Probes in Cubic Metals. Hyperfine Interactions, 2003, 151/152, 77-91.	0.5	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.	5.6	3
30	Stochastic Model of PAC Nuclear Relaxation Caused by Defects Hopping on a Simple Cubic Lattice. Hyperfine Interactions, 2001, 136/137, 627-632.	0.5	0
31	Site Preference Model for Hyperfine Impurities in Compounds. Hyperfine Interactions, 2001, 136/137, 641-646.	0.5	17
32	Segregation of Solutes in Two-Phase Mixtures. Hyperfine Interactions, 2001, 136/137, 653-658.	0.5	4
33	Site Preferences of Hyperfine Impurities in Ni2Al3 Phases. Hyperfine Interactions, 2001, 136/137, 647-652.	0.5	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.	0.5	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.	1.5	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.	0.5	14
46	Formation of Ni3Fe by mechanical alloying. Hyperfine Interactions, 1994, 92, 955-958.	0.5	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.	0.5	2
49	Application of PAC to study equilibrium point defects in intermetallic compounds. Hyperfine Interactions, 1993, 80, 1257-1261.	0.5	8
50	Equilibrium point defects in TiAl studied by PAC. Hyperfine Interactions, 1993, 79, 745-748.	0.5	7
51	Hydrogen binding in vacancy clusters in platinum. Hyperfine Interactions, 1993, 79, 749-753.	0.5	1
52	Atomic diffusion in strain fields near solutes. Hyperfine Interactions, 1993, 79, 755-760.	0.5	2
53	Grain boundary sites in fcc metals studied by PAC. Hyperfine Interactions, 1993, 79, 761-764.	0.5	9
54	The martensitic phase transition in NiTi. Hyperfine Interactions, 1993, 80, 995-998.	0.5	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.	3.2	4
57	Cage motion of a probe atom in a vacancy complex in Pt. Hyperfine Interactions, 1990, 60, 651-653.	0.5	1
58	Point defects in NiAl near the equiatomic composition. Hyperfine Interactions, 1990, 60, 655-658.	0.5	18
59	Stacking fault defects in hep cobalt studied by PAC. Hyperfine Interactions, 1990, 60, 659-662.	0.5	2
60	Electrolytic loading of hydrogen in metals studied by PAC. Hyperfine Interactions, 1990, 60, 663-666.	0.5	0
61	Production and migration of interstitials in deformed metals. Hyperfine Interactions, 1990, 60, 667-670.	0.5	3
62	Laser surface-melting of metals studied by PAC. Hyperfine Interactions, 1990, 61, 1339-1342.	0.5	0
63	Perturbed γâ~'γ angular correlations: A spectroscopy for point defects in metals and alloys. Hyperfine Interactions, 1990, 62, 1-34.	0.5	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.	3.2	21
69	Vacancy migration and accretion in Ni observed by perturbedγ-γangular correlations. Physical Review B, 1985, 32, 4839-4848.	3.2	36
70	Anomalous critical slowing down of spin fluctuations in Gd observed withDy161Mössbauer effect. Physical Review B, 1984, 30, 6277-6284.	3.2	19
71	Nuclear spin relaxation of161Dy in Gd above the Curie temperature observed with the Mössbauer effect. Hyperfine Interactions, 1983, 16, 617-620.	0.5	3
72	Comparison of defect recovery in proton irradiated, deformed and ion implanted nickel as observed by PAC of111In. Hyperfine Interactions, 1983, 15, 387-390.	0.5	8

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73	Trivacancy recovery and formation of a cubic symmetry defect trap on111In impurities in Ni. Hyperfine Interactions, 1983, 15, 391-394.	0.5	17
74	Anomalous temperature dependence of the quadrupole coupling frequency of a lattice defect trapped to1111n in Pt. Hyperfine Interactions, 1983, 15, 395-399.	0.5	7
75	Defect recovery and trapping in plastically deformed Au studied by perturbed angular correlations ofIn111. Physical Review B, 1983, 28, 2940-2946.	3.2	11
76	Motion of Cadmium Tracer Atoms in Al <sub>11</sub> R <sub>3</sub> Phases (R=La,Ce,Pr). Defect and Diffusion Forum, 0, 289-292, 755-761.	0.4	5
77	Jump Frequencies of Cd Tracer Atoms in L1 <sub>2</sub> Lanthanide Gallides. Defect and Diffusion Forum, 0, 289-292, 725-732.	0.4	13
78	Comparison of Jump Frequencies of <sup>111</sup> In/Cd Tracer Atoms in Sn <sub>3</sub> R and In <sub>3</sub> R Phases Having the L1 <sub>2</sub> Structure (R = Rare-Earth). Defect and Diffusion Forum, 0, 311, 159-166.	0.4	11
79	Diffusion in La <sub>n</sub> Coln <sub>3n+2</sub> Phases Studied by Perturbed Angular Correlation. Defect and Diffusion Forum, 0, 323-325, 453-458.	0.4	2
80	The Solubility of Indium in Liquid Gallium Supercooled to 12 K. Defect and Diffusion Forum, 0, 323-325, 503-508.	0.4	5
81	Diffusion in Binary and Pseudo-Binary L1 <sub>2</sub> Indides, Stannides, Gallides and Aluminides of Rare-Earth Elements as Studied Using Perturbed Angular Correlation of <sup>111</sup> In/Cd. Defect and Diffusion Forum, 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 <sub>3</sub> and LuIn <sub>3</sub> . , 0, 27, 40-49.		О