

David J Keeble

List of Publications by Year in descending order

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88
papers

1,886
citations

236833

25
h-index

289141

40
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91
docs citations

91
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of A^- and B^- Site Cation Vacancy Defects in Perovskite Oxide Thin Films. <i>Physical Review Letters</i> , 2010, 105, 226102.	2.9	160
2	Vacancy formation in (Pb,La)(Zr,Ti)O ₃ capacitors with oxygen deficiency and the effect on voltage offset. <i>Applied Physics Letters</i> , 2000, 77, 127-129.	1.5	133
3	Effect of oxygen stoichiometry on the electrical properties of La _{0.5} Sr _{0.5} CoO ₃ electrodes. <i>Journal of Applied Physics</i> , 1997, 81, 3543-3547.	1.1	103
4	Oxide muonics: II. Modelling the electrical activity of hydrogen in wide-gap and high-permittivity dielectrics. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 1079-1119.	0.7	70
5	Bipolaron Formation in Organic Solar Cells Observed by Pulsed Electrically Detected Magnetic Resonance. <i>Physical Review Letters</i> , 2010, 105, 176601.	2.9	70
6	Spin-dependent Shockley-read recombination of electrons and holes in indirect-band-gap semiconductor p-n junction diodes. <i>Solid-State Electronics</i> , 1991, 34, 835-841.	0.8	61
7	Aging in the relaxor and ferroelectric state of Fe-doped (1-x)(Bi _{1/2} Na _{1/2})TiO ₃ -xBaTiO ₃ piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	58
8	The effect of Fe ²⁺ acceptor doping on the electrical properties of Na _{1/2} Bi _{1/2} TiO ₃ and 0.94(Na _{1/2} Bi _{1/2})TiO ₃ â€“0.06 BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 5295-5304.	1.9	54
9	Electron paramagnetic resonance of conduction-band electrons in silicon. <i>Physical Review B</i> , 1997, 55, 16245-16248.	1.1	53
10	Cation vacancies in ferroelectric $PbTi_3O_3$ and $PbTi_3O_3$. <i>Journal of Applied Physics</i> , 1997, 81, 3543-3547.		

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19	Electrical and optical characterization of metastable deep-level defects in GaAs. <i>Physical Review B</i> , 1989, 40, 2940-2945.	1.1	28
20	A combined ESR/X-ray diffraction study of the Y ₂ O ₃ -BaO-CuO phase diagram. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 675-682.	1.7	28
21	Electrically detected magnetic resonance of a transition metal related recombination center in Si α -ndiodes. <i>Applied Physics Letters</i> , 1992, 60, 610-612.	1.5	28
22	Annealing of low-temperature GaAs studied using a variable energy positron beam. <i>Applied Physics Letters</i> , 1993, 63, 87-89.	1.5	28
23	Electron paramagnetic resonance of Mn ⁴⁺ in PbTiO ₃ . <i>Journal of Physics Condensed Matter</i> , 1995, 7, 6327-6333.	0.7	27
24	Metal ion and oxygen vacancies in bulk and thin film La _{1-x} Sr _x CoO ₃ . <i>Physical Review B</i> , 1999, 59, 13365-13369.	1.1	27
25	Paramagnetic Point Defects and Charge Carriers in PbS and CdS Nanocrystal Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17306-17312.	1.5	26
26	Vacancy defects in PbTiO ₃ and lanthanide-ion-doped PbTiO ₃ : A study of positron lifetimes. <i>Physical Review B</i> , 2010, 82, .	1.1	25
27	Suppression of vacancy defects in epitaxial La-doped SrTiO ₃ films. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	25
28	Positron lifetime and implantation in Kapton. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 3388-3393.	1.3	24
29	Electron paramagnetic resonance of Cu ²⁺ in PbTiO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1513-1515.	1.9	21
30	Vacancy defects in thin-film La _{0.5} Sr _{0.5} CoO ₃ observed by positron annihilation. <i>Applied Physics Letters</i> , 1998, 73, 508-510.	1.5	21
31	Optical and electrical studies of interface traps in the Si/SiO ₂ system by modified junction space-charge techniques. <i>Physical Review B</i> , 1989, 39, 5175-5185.	1.1	20
32	dipole centers in ferroelectric PbTiO ₃ using electron paramagnetic resonance. <i>Physical Review B</i> , 2009, 80, .	1.1	20
33	Electrical properties of diamond thin films grown by chemical vapor deposition technique. <i>Thin Solid Films</i> , 1994, 253, 141-145.	0.8	19
34	Electron paramagnetic resonance of Fe ³⁺ in LiNbO ₃ . <i>Physical Review B</i> , 2005, 71, .	1.1	18
35	ESR studies of high critical-temperature superconductors. Absorption at low magnetic fields. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 683.	1.7	17
36	Variable energy positron beam analysis of vacancy defects in laser ablated SrTiO ₃ thin films on SrTiO ₃ . <i>Journal of Applied Physics</i> , 2006, 100, 044109.	1.1	17

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37	Vacancy defects in photoexcited GaAs studied by positron two-dimensional angular correlation of annihilation radiation. <i>Physical Review B</i> , 1994, 50, 11247-11250.	1.1	16
38	Magnetic and optical properties of single crystals of transition metal doped ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1462-1467.	0.7	15
39	Paramagnetic Centers and Dopant Excitation in Crystalline Silicon Carbide. <i>Applied Spectroscopy</i> , 1996, 50, 1428-1434.	1.2	14
40	INVESTIGATIONS OF THE EPR PARAMETERS FOR Dy^{3+} CENTER IN $ZrSiO_4$ CRYSTAL. <i>Modern Physics Letters B</i> , 2010, 24, 289-296.	1.0	14
41	Vacancy defects in CdTe thin films. <i>Physical Review B</i> , 2011, 84, .	1.1	14
42	Electron paramagnetic resonance of nitrogen pairs and triads in 6H-SiC: Analysis and identification. <i>Applied Physics Letters</i> , 1997, 70, 1858-1860.	1.5	11
43	Positron annihilation lifetime spectroscopy study of Kapton thin foils. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 025305.	1.3	11
44	Incorporation of lanthanide ions in lead titanate. <i>Journal of Materials Science</i> , 2012, 47, 1094-1099.	1.7	10
45	Defect accommodation in off-stoichiometric $(SrTiO_3)_n/SrO$ Ruddlesden-Popper superlattices studied with positron annihilation spectroscopy. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	10
46	Radical cations of nitroso derivatives. A radiation-chemical and electron spin resonance study. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 609.	1.0	9
47	Paramagnetic defects in hydrogenated amorphous carbon powders. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7463-7468.	0.7	8
48	Electron paramagnetic resonance of Cr^{3+} in near-stoichiometric $LiTaO_3$. <i>Journal of Applied Physics</i> , 2005, 97, 123905.	1.1	8
49	Measurement of Cu(II) Copper Defect Dipoles in Ferroelectric $PbTiO_3$ Using Electron-Nuclear Double Resonance. <i>Physical Review Letters</i> , 2008, 101, 247604.	2.9	8
50	Characterization of point defects in CdTe by positron annihilation spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, 242102.	1.5	8
51	Air exposure induced recombination in PTB7:PC ₇₁ BM solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21926-21935.	5.2	8
52	A study of vacancy-related defects in $(Pb,La)(Zr,Ti)O_3$ thin films using positron annihilation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000, 47, 916-920.	1.7	7
53	Depth profiling and the effect of oxygen and carbon on the photoelectrical properties of amorphous silicon films deposited using tungsten wire filaments. <i>Thin Solid Films</i> , 2001, 395, 130-133.	0.8	7
54	Hydrogen In Oxides, Modelled By Muonium. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	7

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55	Electron paramagnetic resonance characterization of diamond films fabricated with different methane concentrations. <i>Applied Physics Letters</i> , 1996, 69, 3836-3838.	1.5	6
56	Detection of oxygen vacancies in (Pb,La)(Zr,Ti)O ₃ thin film capacitors using positron annihilation. <i>Integrated Ferroelectrics</i> , 2001, 32, 179-197.	0.3	6
57	Positron annihilation studies of vacancy related defects in ceramic and thin film Pb(Zr,Ti)O ₃ materials. <i>Integrated Ferroelectrics</i> , 1995, 8, 121-128.	0.3	5
58	Electron Paramagnetic Resonance Studies of Impurity Defects in PbTiO ₃ . <i>Applied Spectroscopy</i> , 1997, 51, 117-122.	1.2	5
59	Electron paramagnetic resonance of Fe ³⁺ in near-stoichiometric LiTaO ₃ . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 9047-9057.	0.7	5
60	Persistent spin coherence and bipolarons. <i>Nature Nanotechnology</i> , 2013, 8, 884-885.	15.6	5
61	Characterization of vacancy defects in Cu(In,Ga)Se ₂ by positron annihilation spectroscopy. <i>AIP Advances</i> , 2016, 6, 125031.	0.6	5
62	Positron annihilation lifetime spectroscopy source correction determination: A simulation study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 808, 54-59.	0.7	5
63	Vacancy Related Defects in Thin Film Pb(ZrTi)O ₃ Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994, 361, 129.	0.1	4
64	Paramagnetic centers in Al-doped 6H- <i>SiC</i> : Temperature and concentration effects. <i>Journal of Applied Physics</i> , 2000, 87, 1914-1920.	1.1	4
65	Fatigue Properties of Mn-Doped Lead Zirconate Titanate Thin Films Capacitors. <i>Integrated Ferroelectrics</i> , 2004, 62, 119-125.	0.3	4
66	Positron annihilation lifetime studies of SrTiO ₃ crystal and ceramic materials. <i>European Physical Journal Special Topics</i> , 2005, 128, 111-114.	0.2	4
67	Oxide muonics: A new compendium. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 379-382.	1.3	4
68	Transition metal and rare earth-doped ZnO: a comparison of optical, magnetic, and structural behavior of bulk and thin films. , 2007, , .		4
69	Investigation of the EPR Parameters of a Trigonal Dy ³⁺ Center in La ₂ Mg ₃ (NO ₃) ₁₂ ·24H ₂ O Crystal. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2007, 62, 343-346.	0.7	4
70	Electronically asymmetric poly(1,4-phenylenevinylene)s for photovoltaic cells. <i>Organic Electronics</i> , 2007, 8, 801-812.	1.4	4
71	Vacancy Related Defects in La _{0.5} Sr _{0.5} CoO _{3-δ} Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 474, 229.	0.1	3
72	Theoretical investigations of EPR parameters for trigonal Sm ³⁺ ion in La ₂ Mg ₃ (NO ₃) ₁₂ ·24H ₂ O crystal. <i>Journal of Alloys and Compounds</i> , 2008, 451, 702-704.	2.8	3

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73	EPR on Medically Relevant NO Adsorbed to Zn-LTA. Applied Magnetic Resonance, 2010, 37, 619-627.	0.6	3
74	Structural Analysis and Electric Behavior in Rare Earth Modified Lead Titanate Ferroelectric Ceramics. Ferroelectrics, 2010, 403, 213-218.	0.3	3
75	Defect Identification in (La,Sr)CoO ₃ Using Positron Annihilation Spectroscopy. Materials Research Society Symposia Proceedings, 1998, 541, 161.	0.1	2
76	THEORETICAL EXPLANATIONS OF THE SPIN HAMILTONIAN PARAMETERS FOR Cu^{2+} ION IN $\text{LaSrAl}_{1-x}\text{Cu}_x\text{O}_4$ SOLID SOLUTION. International Journal of Modern Physics B, 2007, 21, 3174-3176.	1.0	2
77	Publisher's Note: Vacancy defect positron lifetimes in strontium titanate [Phys. Rev. B 79 , 014102 (2009)]. Physical Review B, 2009, 79, .	1.1	2
78	Carrier transport in methylammonium lead iodide perovskite single crystals studied by dark current, steady state and transient photocurrent measurements. Journal of Physics: Conference Series, 2019, 1186, 012035.	0.3	2
79	An electron paramagnetic resonance study of superconducting crystals from the Tl-Ca-Ba-Cu-O system. Journal of Physics Condensed Matter, 1989, 1, 7741-7744.	0.7	1
80	Microwave absorption from superconducting crystals of the Tl-Ca-Ba-Cu-O system. Superconductor Science and Technology, 1990, 3, 124-127.	1.8	1
81	Electrically-detected magnetic resonance near the p-doped/n-doped interface of Si junction diodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 72, 119-125.	2.3	1
82	Variable energy positron beam characterization of defects in as-grown and annealed low temperature grown GaAs. Journal of Electronic Materials, 1993, 22, 1405-1408.	1.0	1
83	Positron annihilation studies of defects in molecular beam epitaxy grown In_2S_3 layers. Applied Surface Science, 1995, 85, 295-300.	3.1	1
84	Theoretical studies of the Spin Hamiltonian Parameters for the orthorhombic Pr^{4+} ion in SrCeO_3 crystal. Journal of Alloys and Compounds, 2008, 451, 705-707.	2.8	1
85	Variable Energy Positron Annihilation Spectroscopy of Perovskite Oxides. Defect and Diffusion Forum, 0, 331, 201-233.	0.4	1
86	Electron Paramagnetic Resonance Studies of Hf-CVD Diamond Films. Materials Research Society Symposia Proceedings, 1996, 423, 501.	0.1	0
87	Infrared absorbing oxide electrodes in epitaxial pyroelectric Pb-La-Ti-O heterostructures with controlled domain orientation. Integrated Ferroelectrics, 1999, 25, 135-147.	0.3	0
88	Oxygen Deficiency and Vacancy Formation in LSCO/PLZT/LSCO Capacitors. Materials Research Society Symposia Proceedings, 1999, 596, 393.	0.1	0