

David J Keeble

List of Publications by Year in descending order

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citations

236833

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91
all docs

91
docs citations

91
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of lead vacancy defects in lead halide perovskites. Nature Communications, 2021, 12, 5566.	5.8	51
2	Defect accommodation in off-stoichiometric (SrTiO ₃) _n /SrO Ruddlesden-Popper superlattices studied with positron annihilation spectroscopy. Applied Physics Letters, 2020, 117, .	1.5	10
3	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
4	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 ±0.06 BaTiO ₃ . Journal of the American Ceramic Society, 2019, 102, 5295-5304.	1.9	54
5	UV radiation enhanced oxygen vacancy formation caused by the PLD plasma plume. Scientific Reports, 2018, 8, 8846.	1.6	36
6	Air exposure induced recombination in PTB7:PC ₇₁ BM solar cells. Journal of Materials Chemistry A, 2017, 5, 21926-21935.	5.2	8
7	Positron annihilation lifetime spectroscopy study of Kapton thin foils. Journal Physics D: Applied Physics, 2016, 49, 025305.	1.3	11
8	Characterization of point defects in CdTe by positron annihilation spectroscopy. Applied Physics Letters, 2016, 108, 242102.	1.5	8
9	Characterization of vacancy defects in Cu(In,Ga)Se ₂ by positron annihilation spectroscopy. AIP Advances, 2016, 6, 125031.	0.6	5
10	Positron annihilation lifetime spectroscopy source correction determination: A simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 808, 54-59.	0.7	5
11	Aging in the relaxor and ferroelectric state of Fe-doped (1-x)(Bi _{1/2} Na _{1/2})TiO ₃ -xBaTiO ₃ piezoelectric ceramics. Journal of Applied Physics, 2014, 116, .	1.1	58
12	Persistent spin coherence and bipolarons. Nature Nanotechnology, 2013, 8, 884-885.	15.6	5
13	Nonstoichiometry accommodation in SrTiO ₃ thin films studied by positron annihilation and electron microscopy. Physical Review B, 2013, 87, .	1.1	52
14	Incorporation of lanthanide ions in lead titanate. Journal of Materials Science, 2012, 47, 1094-1099.	1.7	10
15	Vacancy defects in CdTe thin films. Physical Review B, 2011, 84, .	1.1	14
16	Suppression of vacancy defects in epitaxial La-doped SrTiO ₃ films. Applied Physics Letters, 2011, 99, .	1.5	25
17	EPR on Medically Relevant NO Adsorbed to Zn-LTA. Applied Magnetic Resonance, 2010, 37, 619-627.	0.6	3
18	Identification of vacancy defects in a thin film perovskite oxide. Physical Review B, 2010, 81, .	1.1	49

#	ARTICLE	IF	CITATIONS
19	INVESTIGATIONS OF THE EPR PARAMETERS FOR Dy^{3+} CENTER IN $ZrSiO_4$ CRYSTAL. Modern Physics Letters B, 2010, 24, 289-296.	1.0	14
20	Bipolaron Formation in Organic Solar Cells Observed by Pulsed Electrically Detected Magnetic Resonance. Physical Review Letters, 2010, 105, 176601.	2.9	70
21	Identification of A^- and B^- Site Cation Vacancy Defects in Perovskite Oxide Thin Films. Physical Review Letters, 2010, 105, 226102.	2.9	160
22	Vacancy defects in $PbTiO_3$ and lanthanide-ion-doped $PbTiO_3$: A study of positron lifetimes. Physical Review B, 2010, 82, .	1.1	25
23	Structural Analysis and Electric Behavior in Rare Earth Modified Lead Titanate Ferroelectric Ceramics. Ferroelectrics, 2010, 403, 213-218.	0.3	3
24	Vacancy defect positron lifetimes in strontium titanate. Physical Review B, 2009, 79, .	1.1	48
25	Publisher's Note: Vacancy defect positron lifetimes in strontium titanate [Phys. Rev. B 79 , 014102 (2009)]. Physical Review B, 2009, 79, .	1.1	2
26	Fe^{3+} dipole centers in ferroelectric $PbTiO_3$ using electron paramagnetic resonance. Physical Review B, 2009, 80, .	1.1	20
27	Paramagnetic Point Defects and Charge Carriers in PbS and CdS Nanocrystal Polymer Composites. Journal of Physical Chemistry C, 2009, 113, 17306-17312.	1.5	26
28	Theoretical investigations of EPR parameters for trigonal Sm^{3+} ion in $La_2Mg_3(NO_3)_{12} \cdot 24H_2O$ crystal. Journal of Alloys and Compounds, 2008, 451, 702-704.	2.8	3
29	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
30	Measurement of $Cu(II)$ Copper Defect Dipoles in Ferroelectric $PbTiO_3$ Using Electron-Nuclear Double Resonance. Physical Review Letters, 2008, 101, 247604.	2.9	8
31	THEORETICAL EXPLANATIONS OF THE SPIN HAMILTONIAN PARAMETERS FOR Cu^{2+} ION IN $LaSrAl_{1-x}Cu_xO_4$ SOLID SOLUTION. International Journal of Modern Physics B, 2007, 21, 3174-3176.	1.0	2
32	Transition metal and rare earth-doped ZnO : a comparison of optical, magnetic, and structural behavior of bulk and thin films. , 2007, .		4
33	$PbTiO_3$ and TiO_3 and $PbTiO_3$ and TiO_3		

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37	Magnetic and optical properties of single crystals of transition metal doped ZnO. Physica Status Solidi (B): Basic Research, 2007, 244, 1462-1467.	0.7	15
38	Variable energy positron beam analysis of vacancy defects in laser ablated SrTiO ₃ thin films on SrTiO ₃ . Journal of Applied Physics, 2006, 100, 044109.	1.1	17
39	Positron lifetimes of polycrystalline metals: A positron source correction study. Journal of Applied Physics, 2006, 100, 103504.	1.1	31
40	Positron lifetime and implantation in Kapton. Journal Physics D: Applied Physics, 2006, 39, 3388-3393.	1.3	24
41	Oxide muonics: A new compendium. Physica B: Condensed Matter, 2006, 374-375, 379-382.	1.3	4
42	Oxide muonics: II. Modelling the electrical activity of hydrogen in wide-gap and high-permittivity dielectrics. Journal of Physics Condensed Matter, 2006, 18, 1079-1119.	0.7	70
43	Positron annihilation lifetime studies of SrTiO ₃ crystal and ceramic materials. European Physical Journal Special Topics, 2005, 128, 111-114.	0.2	4
44	Hydrogen In Oxides, Modelled By Muonium. AIP Conference Proceedings, 2005, , .	0.3	7
45	Electron paramagnetic resonance of Cr ³⁺ in near-stoichiometric LiTaO ₃ . Journal of Applied Physics, 2005, 97, 123905.	1.1	8
46	Electron paramagnetic resonance of Fe ³⁺ in LiNbO ₃ . Physical Review B, 2005, 71, .	1.1	18
47	Fatigue Properties of Mn-Doped Lead Zirconate Titanate Thin Films Capacitors. Integrated Ferroelectrics, 2004, 62, 119-125.	0.3	4
48	Electron paramagnetic resonance of Fe ³⁺ in near-stoichiometric LiTaO ₃ . Journal of Physics Condensed Matter, 2004, 16, 9047-9057.	0.7	5
49	Paramagnetic defects in hydrogenated amorphous carbon powders. Journal of Physics Condensed Matter, 2003, 15, 7463-7468.	0.7	8
50	Depth profiling and the effect of oxygen and carbon on the photoelectrical properties of amorphous silicon films deposited using tungsten wire filaments. Thin Solid Films, 2001, 395, 130-133.	0.8	7
51	Detection of oxygen vacancies in (Pb,La)(Zr,Ti)O ₃ thin film capacitors using positron annihilation. Integrated Ferroelectrics, 2001, 32, 179-197.	0.3	6
52	Vacancy formation in (Pb,La)(Zr,Ti)O ₃ capacitors with oxygen deficiency and the effect on voltage offset. Applied Physics Letters, 2000, 77, 127-129.	1.5	133
53	A study of vacancy-related defects in (Pb,La)(Zr,Ti)O ₃ thin films using positron annihilation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 916-920.	1.7	7
54	Paramagnetic centers in Al-doped 6H-SiC: Temperature and concentration effects. Journal of Applied Physics, 2000, 87, 1914-1920.	1.1	4

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55	Infrared absorbing oxide electrodes in epitaxial pyroelectric Pb-La-Ti-O heterostructures with controlled domain orientation. <i>Integrated Ferroelectrics</i> , 1999, 25, 135-147.	0.3	0
56	Metal ion and oxygen vacancies in bulk and thin film $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. <i>Physical Review B</i> , 1999, 59, 13365-13369.	1.1	27
57	Oxygen Deficiency and Vacancy Formation in LSCO/PLZT/LSCO Capacitors. <i>Materials Research Society Symposia Proceedings</i> , 1999, 596, 393.	0.1	0
58	Vacancy defects in $(\text{Pb},\text{La})(\text{Zr},\text{Ti})\text{O}_3$ capacitors observed by positron annihilation. <i>Applied Physics Letters</i> , 1998, 73, 318-320.	1.5	50
59	Vacancy defects in thin-film $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ observed by positron annihilation. <i>Applied Physics Letters</i> , 1998, 73, 508-510.	1.5	21
60	Defect Identification in $(\text{La},\text{Sr})\text{CoO}_3$ Using Positron Annihilation Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1998, 541, 161.	0.1	2
61	Electron paramagnetic resonance of conduction-band electrons in silicon. <i>Physical Review B</i> , 1997, 55, 16245-16248.	1.1	53
62	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
63	Vacancy Related Defects in $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 474, 229.	0.1	3
64	Effect of oxygen stoichiometry on the electrical properties of $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ electrodes. <i>Journal of Applied Physics</i> , 1997, 81, 3543-3547.	1.1	103
65	Electron Paramagnetic Resonance Studies of Impurity Defects in PbTiO_3 . <i>Applied Spectroscopy</i> , 1997, 51, 117-122.	1.2	5
66	Paramagnetic Centers and Dopant Excitation in Crystalline Silicon Carbide. <i>Applied Spectroscopy</i> , 1996, 50, 1428-1434.	1.2	14
67	Electron Paramagnetic Resonance Studies of Hf-CVD Diamond Films. <i>Materials Research Society Symposia Proceedings</i> , 1996, 423, 501.	0.1	0
68	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
69	Electron paramagnetic resonance characterization of diamond films fabricated with different methane concentrations. <i>Applied Physics Letters</i> , 1996, 69, 3836-3838.	1.5	6
70	Positron annihilation studies of defects in molecular beam epitaxy grown In_2S_3 layers. <i>Applied Surface Science</i> , 1995, 85, 295-300.	3.1	1
71	Electron paramagnetic resonance of Mn^{4+} in PbTiO_3 . <i>Journal of Physics Condensed Matter</i> , 1995, 7, 6327-6333.	0.7	27
72	Positron annihilation studies of vacancy related defects in ceramic and thin film $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ materials. <i>Integrated Ferroelectrics</i> , 1995, 8, 121-128.	0.3	5

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73	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
74	Electrical properties of diamond thin films grown by chemical vapor deposition technique. <i>Thin Solid Films</i> , 1994, 253, 141-145.	0.8	19
75	Vacancy Related Defects in Thin Film Pb(ZrTi)O ₃ Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994, 361, 129.	0.1	4
76	Electrically-detected magnetic resonance near the p-doped/n-doped interface of Si junction diodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 72, 119-125.	2.3	1
77	Variable energy positron beam characterization of defects in as-grown and annealed low temperature grown GaAs. <i>Journal of Electronic Materials</i> , 1993, 22, 1405-1408.	1.0	1
78	Annealing of low-temperature GaAs studied using a variable energy positron beam. <i>Applied Physics Letters</i> , 1993, 63, 87-89.	1.5	28
79	Electrically detected magnetic resonance of a transition metal related recombination center in Si ⁺ diodes. <i>Applied Physics Letters</i> , 1992, 60, 610-612.	1.5	28
80	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
81	Microwave absorption from superconducting crystals of the Tl-Ca-Ba-Cu-O system. <i>Superconductor Science and Technology</i> , 1990, 3, 124-127.	1.8	1
82	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
83	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
84	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
85	Electrical and optical characterization of metastable deep-level defects in GaAs. <i>Physical Review B</i> , 1989, 40, 2940-2945.	1.1	28
86	An electron paramagnetic resonance study of superconducting crystals from the Tl-Ca-Ba-Cu-O system. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 7741-7744.	0.7	1
87	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
88	Variable Energy Positron Annihilation Spectroscopy of Perovskite Oxides. <i>Defect and Diffusion Forum</i> , 0, 331, 201-233.	0.4	1