

David Walker

List of Publications by Year in descending order

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62
papers

1,164
citations

471061

17
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414034

32
g-index

63
all docs

63
docs citations

63
times ranked

1784
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020, 577, 350-354.	13.7	360
2	Crystallization-driven sphere-to-rod transition of poly(lactide)-b-poly(acrylic acid) diblock copolymers: mechanism and kinetics. <i>Soft Matter</i> , 2012, 8, 7408.	1.2	101
3	Synthesis and Characterisation of Reduced Graphene Oxide/Bismuth Composite for Electrodes in Electrochemical Energy Storage Devices. <i>ChemSusChem</i> , 2017, 10, 363-371.	3.6	41
4	Horizontal Alignment of Chemical Vapor-Deposited SWNTs on Single-Crystal Quartz Surfaces: Further Evidence for Epitaxial Alignment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17087-17096.	1.5	36
5	A highly active and synergistic Pt/Mo2C/Al2O3 catalyst for water-gas shift reaction. <i>Molecular Catalysis</i> , 2018, 455, 38-47.	1.0	36
6	Analysis of Al/Ti, Al/Ni multiple and triple layer contacts to p-type 4H-SiC. <i>Solid-State Electronics</i> , 2007, 51, 797-801.	0.8	35
7	$Cs_xRb_xSn_3$ light harvesting semiconductors for perovskite photovoltaics. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1515-1522.	3.2	31
8	Polar domain structural evolution under electric field and temperature in the $(Bi_{0.5}Na_{0.5})TiO_3 \cdot 0.06BaTiO_3$ piezoceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 437-447.	1.9	30
9	Structural investigations of the bismuth scandate-lead titanate $BiScO_3$. <i>Physical Review B</i> , 2010, 82, .	1.1	29
10	Electrochemical deposition of dodecanoate on lead in view of an environmentally safe corrosion inhibition. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 407-413.	1.2	26
11	Investigation of the depolarisation transition in Bi-based relaxor ferroelectrics. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	25
12	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO2 Coated Tube Reactor. <i>Catalysts</i> , 2018, 8, 58.	1.6	23
13	MBE grown GaAsBi/GaAs multiple quantum well structures: Structural and optical characterization. <i>Journal of Crystal Growth</i> , 2015, 425, 237-240.	0.7	22
14	Growth of crystalline garnet mixed films, superlattices and multilayers for optical applications via shuttered Combinatorial Pulsed Laser Deposition. <i>Optics Express</i> , 2010, 18, 24679.	1.7	21
15	N incorporation in GaInNSb alloys and lattice matching to GaSb. <i>Journal of Applied Physics</i> , 2013, 113, 033502.	1.1	19
16	Time-lapse synchrotron X-ray diffraction to monitor conservation coatings for heritage lead in atmospheres polluted with oak-emitted volatile organic compounds. <i>Corrosion Science</i> , 2014, 82, 280-289.	3.0	18
17	On the Ti_3SiC_2 ; Metallic Phase Formation for Robust p-Type 4H-SiC Ohmic Contacts. <i>Materials Science Forum</i> , 0, 778-780, 693-696.	0.3	18
18	Controlled nitrogen incorporation in GaNSb alloys. <i>AIP Advances</i> , 2011, 1, .	0.6	17

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19	Optical crystallographic study of piezoelectric $KxNa1-xNbO_3$ ($x = 0.4, 0.5$ and 0.6) single crystals using linear birefringence. <i>CrystEngComm</i> , 2013, 15, 6790.	1.3	17
20	An XRD and NMR crystallographic investigation of the structure of 2,6-lutidinium hydrogen fumarate. <i>CrystEngComm</i> , 2019, 21, 3502-3516.	1.3	16
21	Anisotropy in the hole mobility measured along the [110] and $[1\bar{1}0]$ orientations in a strained Ge quantum well. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	15
22	Growth and characterisation of high quality MBE grown InN_xSb_{1-x} . <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 104-106.	1.2	14
23	Growth and structural characterization of GaAsBi/GaAs multiple quantum wells. <i>Semiconductor Science and Technology</i> , 2015, 30, 094013.	1.0	14
24	3C-SiC Transistor With Ohmic Contacts Defined at Room Temperature. <i>IEEE Electron Device Letters</i> , 2016, 37, 1189-1192.	2.2	13
25	Investigating discrepancies between experimental solid-state NMR and GIPAW calculation: N and ^{13}C and OH chemical shifts in pyridinium fumarates and their cocrystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 108, 101662.	1.5	13
26	Quantitative High-Dynamic-Range Electron Diffraction of Polar Nanodomains in Pb_2ScTaO_6 . <i>Advanced Materials</i> , 2019, 31, e1806498.	11.1	12
27	Enhanced Stability of Tin Halide Perovskite Photovoltaics Using a Bathocuproine-Copper Top Electrode. <i>Advanced Energy Materials</i> , 2021, 11, 2102766.	10.2	12
28	A comprehensive investigation of the structural properties of ferroelectric $Pb_{0.2}Ti_{0.8}O_3$ thin films grown by PLD. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1799-1803.	0.8	11
29	Molecular-beam epitaxy and lattice parameter of GaN_xSb_{1-x} : deviation from Vegard's law for $x > 0.02$. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 264003.	1.3	10
30	Impact of quenched random fields on the ferroelectric-to-relaxor crossover in the solid solution $(1-x)BaTiO_3-xDyFeO_3$. <i>Physical Review B</i> , 2018, 98, .	1.1	10
31	High potassium $KTiOPO_4$ crystals for the fabrication of quasi-phase matched devices. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1236-1241.	1.3	9
32	Assessment of copper corrosion from frameless copper IUDs after long-term in utero residence. <i>Contraception</i> , 2014, 90, 454-459.	0.8	9
33	Growth of dilute nitride alloys of GaInSb lattice-matched to GaSb. <i>Journal of Crystal Growth</i> , 2007, 304, 338-341.	0.7	8
34	Structural, optical and vibrational properties of self-assembled $Pb_{n+1}(Ti_{1-x}Fex)_nO_{3n+1}$ Ruddlesden-Popper superstructures. <i>Scientific Reports</i> , 2015, 5, 7719.	1.6	8
35	Comparison of $LiNbO_3$ flux systems for deposition on RIE-etched $LiTaO_3$ substrates. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7480-7484.	1.3	7
36	Bismuth zinc niobate: BZN-BT, a new lead-free $BaTiO_3$ -based ferroelectric relaxor?. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050033.	1.5	7

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37	Meso- to nano-scopic domain structures in high Curie-temperature piezoelectric BiScO ₃ â€“PbTiO ₃ single crystals of complex perovskite structure. Journal of Materials Chemistry C, 2020, 8, 7234-7243.	2.7	7
38	Growth and characterisation of dilute antimonide nitride materials for long-wavelength applications. Microelectronics Journal, 2009, 40, 399-402.	1.1	6
39	A combined NMR crystallographic and PXRD investigation of the structure-directing role of water molecules in orotic acid and its lithium and magnesium salts. CrystEngComm, 2017, 19, 224-236.	1.3	6
40	X-ray imaging investigation of periodically electroded rubidium titanyl arsenate, RbTiOAsO ₄ , under an applied electric field. Journal Physics D: Applied Physics, 2005, 38, A55-A60.	1.3	5
41	Bow Free 4" Diameter 3C-SiC Epilayers Formed upon Wafer-Bonded Si/SiC Substrates. ECS Solid State Letters, 2012, 1, P85-P88.	1.4	5
42	HRXRD study of the theoretical densities of novel reactive sintered boride candidate neutron shielding materials. Nuclear Materials and Energy, 2020, 22, 100732.	0.6	5
43	A variable temperature solid-state nuclear magnetic resonance, electron paramagnetic resonance and Raman scattering study of molecular dynamics in ferroelectric fluorides. Journal of Physics Condensed Matter, 2011, 23, 315402.	0.7	4
44	The influence of beam energy on apparent layer thickness using ultralow energy O ₂ + SIMS on surface Si ₁ âˆ™xGe _x . Surface and Interface Analysis, 2011, 43, 211-213.	0.8	4
45	5â€“aminoâ€“methylpyridinium hydrogen fumarate: An XRD and NMR crystallography analysis. Magnetic Resonance in Chemistry, 2020, 58, 1026-1035.	1.1	4
46	Atomic-scale investigation of the reversible \pm - to ∞ -phase lithium ion charge â€“ discharge characteristics of electrodeposited vanadium pentoxide nanobelts. Journal of Materials Chemistry A, 2022, 10, 8515-8527.	5.2	4
47	An investigation of the properties of large crystals of the zeolites dodecasil-3C and ferrierite by high-temperature birefringence microscopy and X-ray diffraction. Journal of Applied Crystallography, 2010, 43, 168-175.	1.9	3
48	Thin film LaYbO ₃ capacitive structures grown by pulsed laser deposition. Thin Solid Films, 2013, 527, 81-86.	0.8	3
49	X-ray white beam topography of self-organized domains in flux-grown $\langle \text{BaTiO}_3 \rangle$ single crystals. Physical Review B, 2016, 94, 114111.	1.1	3
50	Phase Transitions and Phonon Mode Dynamics of Ba(Cu _{1/3} Nb _{2/3})O ₃ and Sr(Cu _{1/3} Nb _{2/3})O ₃ for Understanding Thermoelectric Response. ACS Applied Energy Materials, 2020, 3, 3939-3945.	2.5	3
51	Controlling Magnetic Anisotropy in a Zero-Dimensional $S = 1$ Magnet Using Isotropic Cation Substitution. Journal of the American Chemical Society, 2021, 143, 4633-4638.	6.6	3
52	Synchrotron X-ray diffraction investigation of the surface condition of artefacts from King Henry VIII's warship the <i>Mary Rose</i> . Journal of Synchrotron Radiation, 2020, 27, 653-663.	1.0	3
53	Fabrication of waveguides by inductively coupled plasma etching on LiNbO ₃ /LiTaO ₃ single crystal film by liquid phase epitaxy growth. , 2007, , .		1
54	In situ investigation of the non-linear optical crystal rubidium titanyl arsenate, RbTiOAsO ₄ , under applied electric field using X-ray imaging. Journal of Applied Crystallography, 2007, 40, 505-512.	1.9	1

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55	Ohmic Contact Reliability of Commercially Available SiC MOSFETs Isothermally Aged for Long Periods at 300°C in Air. <i>Materials Science Forum</i> , 0, 858, 557-560.	0.3	1
56	Physical and Electrical Characterisation of 3C-SiC and 4H-SiC for Power Semiconductor Device Applications. <i>Environmental Science and Engineering</i> , 2014, , 929-932.	0.1	0
57	On the tetragonal phase of sodium bismuth titanate, Na _{0.5} Bi _{0.5} TiO ₃ (NBT). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s338-s338.	0.0	0
58	Nitrogen pair-induced temperature insensitivity of the band gap of GaNSb alloys. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 045105.	1.3	0
59	Non-ambient X-ray and neutron diffraction of novel relaxor ferroelectric $(\text{Bi}_{2/3}\text{Zn}_{1/3}\text{Nb}_3\text{O}_{11})_{1-x}(\text{Bi}_{2/3}\text{Zn}_{1/3}\text{Nb}_3\text{O}_{11})_x$. <i>Journal of Applied Physics</i> , 2019, 125, 084101.	0.7	0
60	Structural investigation of the lead-free ferroelectric solid solution $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $x\text{BaTiO}_3$. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s586-s586.	0.3	0
61	Perovskite BaTiO ₃ doped with pyrochlore bismuth zinc niobate – a new perovskite relaxor ferroelectric BZN-BT. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e283-e283.	0.0	0
62	Enhanced Stability of Tin Halide Perovskite Photovoltaics Using a Bathocuproine - Copper Top Electrode. , 0, , .		0