

David Walker

List of Publications by Year in descending order

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62
papers

1,164
citations

471061

17
h-index

414034

32
g-index

63
all docs

63
docs citations

63
times ranked

1784
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-scale investigation of the reversible \pm - to $\bar{1}\%$ -phase lithium ion charge $\hat{\epsilon}$ discharge characteristics of electrodeposited vanadium pentoxide nanobelts. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8515-8527.	5.2	4
2	Controlling Magnetic Anisotropy in a Zero-Dimensional $\langle i \rangle S \langle /i \rangle = 1$ Magnet Using Isotropic Cation Substitution. <i>Journal of the American Chemical Society</i> , 2021, 143, 4633-4638.	6.6	3
3	Non-ambient X-ray and neutron diffraction of novel relaxor ferroelectric $\langle i \rangle x \langle /i \rangle \text{Bi}_{2/3}(\text{Zn}_{2/3}, \text{Nb}_{1/3})\text{O}_3 \hat{\epsilon} (1) T_j \text{ETQq1 } 1.0.784314 \text{ rgBT /Over}$	1.5	7
4	Enhanced Stability of Tin Halide Perovskite Photovoltaics Using a Bathocuproine $\hat{\epsilon}$ Copper Top Electrode. <i>Advanced Energy Materials</i> , 2021, 11, 2102766.	10.2	12
5	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
6	5 $\hat{\epsilon}$ amino $\hat{\epsilon}$ methylpyridinium hydrogen fumarate: An XRD and NMR crystallography analysis. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1026-1035.	1.1	4
7	Investigating discrepancies between experimental solid-state NMR and GIPAW calculation: N $\hat{\epsilon}$ ^{13}C and $\text{OH} \hat{\epsilon} \text{O}^{-1}\text{H}$ chemical shifts in pyridinium fumarates and their cocrystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 108, 101662.	1.5	13
8	HRXRD study of the theoretical densities of novel reactive sintered boride candidate neutron shielding materials. <i>Nuclear Materials and Energy</i> , 2020, 22, 100732.	0.6	5
9	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020, 577, 350-354.	13.7	360
10	Phase Transitions and Phonon Mode Dynamics of $\text{Ba}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$ and $\text{Sr}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$ for Understanding Thermoelectric Response. <i>ACS Applied Energy Materials</i> , 2020, 3, 3939-3945.	2.5	3
11	Meso- to nano-scopic domain structures in high Curie-temperature piezoelectric BiScO_3 $\hat{\epsilon}$ PbTiO_3 single crystals of complex perovskite structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7234-7243.	2.7	7
12	Synchrotron X-ray diffraction investigation of the surface condition of artefacts from King Henry VIII's warship the $\langle i \rangle$ Mary Rose $\langle /i \rangle$. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 653-663.	1.0	3
13	Polar domain structural evolution under electric field and temperature in the $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3 \hat{\epsilon} 0.06\text{BaTiO}_3$ piezoceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 437-447.	1.9	30
14	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
15	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
16	Quantitative High $\hat{\epsilon}$ Dynamic $\hat{\epsilon}$ Range Electron Diffraction of Polar Nanodomains in $\text{Pb}_{2/3}\text{ScTaO}_6$. <i>Advanced Materials</i> , 2019, 31, e1806498.	11.1	12
17	Perovskite BaTiO_3 doped with pyrochlore bismuth zinc niobate $\hat{\epsilon}$ a new perovskite relaxor ferroelectric BZN-BT. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e283-e283.	0.0	0
18	Impact of quenched random fields on the ferroelectric-to-relaxor crossover in the solid solution $(1 \hat{\epsilon} x)\text{BaTiO}_3 \hat{\epsilon} x\text{DyFeO}_3$. <i>Physical Review B</i> , 2018, 98, .	1.1	10

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19	A highly active and synergistic Pt/Mo ₂ C/Al ₂ O ₃ catalyst for water-gas shift reaction. <i>Molecular Catalysis</i> , 2018, 455, 38-47.	1.0	36
20	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO ₂ Coated Tube Reactor. <i>Catalysts</i> , 2018, 8, 58.	1.6	23
21	Cs _{1-x} Rb _x Sn ₃ light harvesting semiconductors for perovskite photovoltaics. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1515-1522.	3.2	31
22	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
23	A combined NMR crystallographic and PXRD investigation of the structure-directing role of water molecules in orotic acid and its lithium and magnesium salts. <i>CrystEngComm</i> , 2017, 19, 224-236.	1.3	6
24	X-ray white beam topography of self-organized domains in flux-grown BaTiO ₃ single crystals. <i>Physical Review B</i> , 2016, 94, .	1.1	3
25	3C-SiC Transistor With Ohmic Contacts Defined at Room Temperature. <i>IEEE Electron Device Letters</i> , 2016, 37, 1189-1192.	2.2	13
26	Growth and structural characterization of GaAsBi/GaAs multiple quantum wells. <i>Semiconductor Science and Technology</i> , 2015, 30, 094013.	1.0	14
27	Structural, optical and vibrational properties of self-assembled Pbn+1(Ti1-xFex)nO3n+1 Ruddlesden-Popper superstructures. <i>Scientific Reports</i> , 2015, 5, 7719.	1.6	8
28	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
29	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
30	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
31	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
32	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
33	Investigation of the depolarisation transition in Bi-based relaxor ferroelectrics. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	25
34	Assessment of copper corrosion from frameless copper IUDs after long-term in utero residence. <i>Contraception</i> , 2014, 90, 454-459.	0.8	9
35	Thin film LaYbO ₃ capacitive structures grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2013, 527, 81-86.	0.8	3
36	Optical crystallographic study of piezoelectric KxNa _{1-x} NbO ₃ (x = 0.4, 0.5 and 0.6) single crystals using linear birefringence. <i>CrystEngComm</i> , 2013, 15, 6790.	1.3	17

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37	Molecular-beam epitaxy and lattice parameter of GaN _x Sb _{1-x} : deviation from Vegard's law for $x > 0.02$. Journal Physics D: Applied Physics, 2013, 46, 264003.	1.3	10
38	N incorporation in GaInNSb alloys and lattice matching to GaSb. Journal of Applied Physics, 2013, 113, 033502.	1.1	19
39	Structural investigation of the lead-free ferroelectric solid solution $(1-x)\text{Na}0.5\text{Bi}0.5\text{TiO}_3\text{xBaTiO}_3$. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s586-s586.	0.3	0
40	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
41	Crystallization-driven sphere-to-rod transition of poly(lactide)-b-poly(acrylic acid) diblock copolymers: mechanism and kinetics. Soft Matter, 2012, 8, 7408.	1.2	101
42	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
43	Controlled nitrogen incorporation in GaNSb alloys. AIP Advances, 2011, 1, .	0.6	17
44	The influence of beam energy on apparent layer thickness using ultralow energy O ₂ ⁺ SIMS on surface Si _{1-x} Gex. Surface and Interface Analysis, 2011, 43, 211-213.	0.8	4
45	Electrochemical deposition of dodecanoate on lead in view of an environmentally safe corrosion inhibition. Journal of Solid State Electrochemistry, 2010, 14, 407-413.	1.2	26
46	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
47	Growth of crystalline garnet mixed films, superlattices and multilayers for optical applications via shuttered Combinatorial Pulsed Laser Deposition. Optics Express, 2010, 18, 24679.	1.7	21
48	Structural investigations of the bismuth scandate-lead titanate BiScO_3 Physical Review B, 2010, 82, .	1.1	29
49	A comprehensive investigation of the structural properties of ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ thin films grown by PLD. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1799-1803.	0.8	11
50	Growth and characterisation of dilute antimonide nitride materials for long-wavelength applications. Microelectronics Journal, 2009, 40, 399-402.	1.1	6
51	Horizontal Alignment of Chemical Vapor-Deposited SWNTs on Single-Crystal Quartz Surfaces: Further Evidence for Epitaxial Alignment. Journal of Physical Chemistry C, 2009, 113, 17087-17096.	1.5	36
52	Comparison of LiNbO ₃ flux systems for deposition on RIE-etched LiTaO ₃ substrates. Journal Physics D: Applied Physics, 2007, 40, 7480-7484.	1.3	7
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	Analysis of Al/Ti, Al/Ni multiple and triple layer contacts to p-type 4H-SiC. Solid-State Electronics, 2007, 51, 797-801.	0.8	35

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55	Growth of dilute nitride alloys of GaInSb lattice-matched to GaSb. Journal of Crystal Growth, 2007, 304, 338-341.	0.7	8
56	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
57	Growth and characterisation of high quality MBE grown In _x Sb _{1-x} . Physica Status Solidi - Rapid Research Letters, 2007, 1, 104-106.	1.2	14
58	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
59	High potassium KTiOPO ₄ crystals for the fabrication of quasi-phase matched devices. Journal Physics D: Applied Physics, 2003, 36, 1236-1241.	1.3	9
60	On the Ti ₃ SiC ₂ ; Metallic Phase Formation for Robust p-Type 4H-SiC Ohmic Contacts. Materials Science Forum, 0, 778-780, 693-696.	0.3	18
61	Ohmic Contact Reliability of Commercially Available SiC MOSFETs Isothermally Aged for Long Periods at 300°C in Air. Materials Science Forum, 0, 858, 557-560.	0.3	1
62	Enhanced Stability of Tin Halide Perovskite Photovoltaics Using a Bathocuproine - Copper Top Electrode. , 0, , .		0