

Doreen D Edwards

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,660
citations

279798

23
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface termination analysis of stoichiometric metal hexaborides: Insights from first-principles and XPS measurements. <i>Acta Materialia</i> , 2018, 144, 187-201.	7.9	21
2	Nanodomains and local structure in ternary alkaline-earth hexaborides. <i>Journal of Applied Crystallography</i> , 2018, 51, 1445-1454.	4.5	4
3	The critical role of point defects in improving the specific capacitance of δ -MnO ₂ nanosheets. <i>Nature Communications</i> , 2017, 8, 14559.	12.8	208
4	Phase Stability of Mixed-Cation Alkaline-Earth Hexaborides. <i>Crystal Growth and Design</i> , 2017, 17, 3450-3461.	3.0	21
5	Effect of Current on Diffusivity in Metal Hexaborides: A Spark Plasma Sintering Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37357-37363.	8.0	23
6	Self-Supported Lithium Titanium Oxide Nanosheet Arrays Decorated with Molybdenum Disulfide for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2016, 4, 1420-1426.	3.8	11
7	Sulfur-resistant and regenerable Ni/Co spinel-based catalysts for methane dry reforming. <i>Catalysis Science and Technology</i> , 2015, 5, 4565-4574.	4.1	41
8	New Methods for Preparing Submicrometer Powders of The Tungstate-Ion Conductor $\text{Sc}_2(\text{WO}_4)_3$ and its Al and In Analogs. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2402-2410.	3.8	12
9	A comparison of the photocatalytic activity of six tunneled titanates. <i>Journal of Solid State Chemistry</i> , 2013, 200, 189-196.	2.9	5
10	Thermoelectric properties and impedance spectroscopy of polycrystalline samples of the beta-gallia rutile intergrowth, $(\text{Ga},\text{In})_4(\text{Sn},\text{Ti})_5\text{O}_{16}$. <i>Journal of Solid State Chemistry</i> , 2012, 191, 129-135.	2.9	1
11	Kinetic demixing/decomposition of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($x=0.2$ and 0.8). <i>Journal of the European Ceramic Society</i> , 2012, 32, 3733-3743.	5.7	12
12	Seebeck coefficient and electrical conductivity of BSCF ($\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$, $0 \leq x \leq 0.8$) as a function of temperature and partial oxygen pressure. <i>Solid State Ionics</i> , 2012, 206, 50-56.	2.7	15
13	X-ray photoelectron study on $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$ (BSCF: $x=0.2$ and 0.8) ceramics annealed at different temperature and $p\text{O}_2$. <i>Journal of Materials Science</i> , 2011, 46, 7415-7422.	3.7	30
14	Structural behavior and thermoelectric properties of the brownmillerite system $\text{Ca}_2(\text{Zn}_x\text{Fe}_{2-x})\text{O}_5$. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2167-2177.	2.9	15
15	X-ray photoelectron (XPS) and Diffuse Reflectance Infra Fourier Transformation (DRIFT) study of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$ (BSCF: $x=0 \leq 0.8$) ceramics. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2238-2243.	2.9	64
16	The electronic conductivity of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$ (BSCF: $x=0 \leq 0.8$) under different oxygen partial pressures. <i>Journal of Electroceramics</i> , 2010, 24, 261-269.	2.0	34
17	p-Type thermoelectric properties of the oxygen-deficient perovskite $\text{Ca}_2\text{Fe}_2\text{O}_5$ in the brownmillerite structure. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1670-1677.	2.9	52
18	Oxygen stoichiometry, electrical conductivity, and thermopower measurements of BSCF ($\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$, $0 \leq x \leq 0.8$) in air. <i>Solid State Ionics</i> , 2010, 181, 1287-1293.	2.7	64

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19	Evaluation of Co and perovskite Cr-blocking thin films on SOFC interconnects. <i>Solid State Ionics</i> , 2010, 181, 1294-1302.	2.7	30
20	Spectral selectivity of composite enamel coatings on 321 stainless steel. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1404-1410.	6.2	11
21	Charge transfer in In ₂ W ₃ O ₁₂ and In ₆ WO ₁₂ ceramics. <i>Solid State Ionics</i> , 2008, 178, 1714-1718.	2.7	12
22	Phase stability of BSCF in low oxygen partial pressures. <i>Journal of Solid State Chemistry</i> , 2008, 181, 576-586.	2.9	82
23	Formation and structural refinements of tunneled intergrowth phases in the Ga ₂ O ₃ -In ₂ O ₃ -SnO ₂ -TiO ₂ system. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2755-2762.	2.9	2
24	Phase formation and stability of polycrystalline Na _x Ga _{4+x} Ti _{1-x} O ₈ (x~0.7). <i>Solid State Ionics</i> , 2008, 179, 878-880.	2.7	4
25	Charge Transport by Polyatomic Anion Diffusion in Sc ₂ (WO ₄) ₃ . <i>Chemistry of Materials</i> , 2008, 20, 6335-6345.	6.7	54
26	Solid solubility and electrical conduction mechanisms in 3-layer Aurivillius ceramics. <i>Solid State Ionics</i> , 2007, 178, 1175-1179.	2.7	6
27	Hydrothermal synthesis of powders in the Ga-Mn-O-H system. <i>Solid State Sciences</i> , 2007, 9, 914-923.	3.2	0
28	Atomic Force Microscopy Study of the Interaction of DNA and Nanostructured β -Gallia Rutile. <i>Langmuir</i> , 2006, 22, 7658-7663.	3.5	3
29	Effect of Oxygen Partial Pressure on the Dielectric Properties and Microstructures of Cofired Base-Metal-Electrode Multilayer Ceramic Capacitors. <i>Journal of the American Ceramic Society</i> , 2006, 89, 894-901.	3.8	28
30	Phase stability and structure of alkali doped-beta-gallia rutile intergrowths. <i>Solid State Ionics</i> , 2006, 177, 77-87.	2.7	10
31	Synthesis and transport studies of one-dimensional ion conductors: A _x Ga _{4+x} Ti _{1-x} O ₈ (A=Li, Na, K). <i>Solid State Ionics</i> , 2006, 177, 1897-1900.	2.7	8
32	Dielectric Properties and Microstructures of Ba(Ti,Zr)O ₃ Multilayer Ceramic Capacitors with Ni Electrodes. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1455-1460.	3.8	14
33	Subsolidus Phase Relationships in the Ga ₂ O ₃ -Al ₂ O ₃ -TiO ₂ System. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2573-2577.	3.8	33
34	Microstructural and High-Temperature Electrical Characterization of La _{1-x} Sr _x FeO ₃ ??. <i>Journal of Electroceramics</i> , 2005, 14, 193-198.	2.0	53
35	Subsolidus phase relations and crystal structures of the mixed-oxide phases in the In ₂ O ₃ -WO ₃ system. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2740-2748.	2.9	24
36	Phase Stability of Beta-gallia Rutile Intergrowths: (Ga,In) ₄ (Sn,Ti) _{n-4} O _{2n-2} . <i>Materials Research Society Symposia Proceedings</i> , 2002, 756, 1.	0.1	0

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37	Phase Equilibria in the In ₂ O ₃ -WO ₃ System. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
38	Sol-gel deposition and characterization of In ₆ WO ₁₂ thin films. Thin Solid Films, 2002, 411, 192-197.	1.8	15
39	Tunneled Intergrowth Structures in the Ga ₂ O ₃ -In ₂ O ₃ -SnO ₂ System. Journal of Solid State Chemistry, 2000, 150, 294-304.	2.9	24
40	Point defects and electrical properties of Sn-doped In-based transparent conducting oxides. Solid State Ionics, 2000, 129, 135-144.	2.7	83
41	Subsolidus Phase Relations in the Ga ₂ O ₃ -In ₂ O ₃ -SnO ₂ System. Journal of the American Ceramic Society, 1998, 81, 3285-3292.	3.8	52
42	A Structural Investigation of Ga _{3-x} In _{5+x} Sn ₂ O ₁₆ . Journal of Solid State Chemistry, 1998, 140, 242-250.	2.9	24
43	Systematic Study of Transparent Conductors in the (Zinc, Gallium)-Indium-Tin Oxide Systems. Materials Research Society Symposia Proceedings, 1998, 508, 309.	0.1	2
44	Experimental limitations in impedance spectroscopy of cement-based materials. Advances in Cement Research, 1998, 10, 143-150.	1.6	15
45	Phase Relationships and Physical Properties of Homologous Compounds in the Zinc Oxide-Indium Oxide System. Journal of the American Ceramic Society, 1998, 81, 1310-1316.	3.8	172
46	A new transparent conducting oxide in the Ga ₂ O ₃ -In ₂ O ₃ -SnO ₂ system. Applied Physics Letters, 1997, 70, 1706-1708.	3.3	162
47	Phase Equilibria and Properties of Transparent Conductors in the Indium-Tin-Zinc Oxide System. Materials Research Society Symposia Proceedings, 1997, 471, 93.	0.1	0
48	Phase Equilibria in the Ga ₂ O ₃ -In ₂ O ₃ System. Journal of the American Ceramic Society, 1997, 80, 253-257.	3.8	72