

Mari-Ann Einarsrud

List of Publications by Year in descending order

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docs citations

121
times ranked

4264
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating acrylic acid content of nanogels for drug delivery & biocompatibility studies. Journal of Colloid and Interface Science, 2022, 607, 76-88.	9.4	10
2	Tailoring Preferential Orientation in BaTiO ₃ based Thin Films from Aqueous Chemical Solution Deposition. Chemistry Methods, 2022, 2, .	3.8	0
3	The effect of alkaline earth metal substitution on thermoelectric properties of A _{0.98} La _{0.02} MnO _{3-δ} (A=Ca,Ba). Processing and Application of Ceramics, 2022, 16, 78-82.	0.8	3
4	Mesophase Transitions in [(C ₂ H ₅) ₄ N][FeBrCl ₃] and [(CH ₃) ₄ N][FeBrCl ₃] Ferroic Plastic Crystals. Chemistry of Materials, 2022, 34, 2585-2598.	6.7	5
5	Mechanical and tribological properties of injection molded zirconia-alumina for orthopedic implants. Ceramics International, 2022, 48, 31211-31222.	4.8	4
6	Hydrothermal synthesis of hexagonal YMnO ₃ and YbMnO ₃ below 250 °C. Dalton Transactions, 2021, 50, 9904-9913.	3.3	2
7	Fluorescent Nanocomposites: Hollow Silica Microspheres with Embedded Carbon Dots. ChemPlusChem, 2021, 86, 176-183.	2.8	3
8	Anisotropic in-plane dielectric and ferroelectric properties of tensile-strained BaTiO ₃ films with three different crystallographic orientations. AIP Advances, 2021, 11, 025016.	1.3	10
9	Understanding the Hydrothermal Formation of NaNbO ₃ : Its Full Reaction Scheme and Kinetics. Inorganic Chemistry, 2021, 60, 7632-7640.	4.0	7
10	Structures and Role of the Intermediate Phases on the Crystallization of BaTiO ₃ from an Aqueous Synthesis Route. ACS Omega, 2021, 6, 9567-9576.	3.5	6
11	The Structure, Morphology, and Complex Permittivity of Epoxy Nanodielectrics with In Situ Synthesized Surface-Functionalized SiO ₂ . Polymers, 2021, 13, 1469.	4.5	6
12	Phase relations and thermomechanical properties of (Gd ₂ Zr ₂ O ₇) _{1-x} (YbSZ) _x based thermal barrier coatings (0 ≤ x ≤ 0.98). Journal of Materials Research, 2021, 36, 3226.	2.6	1
13	In situ X-ray diffraction studies of the crystallization of K _{0.5} Na _{0.5} NbO ₃ powders and thin films from an aqueous synthesis route. Open Ceramics, 2021, 7, 100147.	2.0	1
14	Time-Enhanced Performance of Oxide Thermoelectric Modules Based on a Hybrid p-n Junction. ACS Omega, 2021, 6, 197-205.	3.5	6
15	Thermoelectric properties of A-site deficient La-doped SrTiO ₃ at 100–900 °C under reducing conditions. Journal of the European Ceramic Society, 2020, 40, 401-407.	5.7	32
16	Biocompatibility of (Ba,Ca)(Zr,Ti)O ₃ piezoelectric ceramics for bone replacement materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1295-1303.	3.4	29
17	Microstructural and compositional optimization of La _{0.5} Ba _{0.5} CoO _{3-δ} BaZr _{1-z} Y _z O _{3-δ} (z = 0, 0.05 and 0.1) nanocomposite cathodes for protonic ceramic fuel cells. JPhys Energy, 2020, 2, 015001.	5.3	2
18	Thermoelectric properties of non-stoichiometric CaMnO _{3-δ} composites formed by redox-activated exsolution. Journal of the European Ceramic Society, 2020, 40, 1344-1351.	5.7	17

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19	<i>In Vitro</i> Biocompatibility of Piezoelectric $K_{0.5}Na_{0.5}NbO_3$ Thin Films on Platinized Silicon Substrates. <i>ACS Applied Bio Materials</i> , 2020, 3, 8714-8721.	4.6	16
20	On the formation mechanism of $Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O_3$ thin films by aqueous chemical solution deposition. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5376-5383.	5.7	8
21	Mechanisms for texture in $BaTiO_3$ thin films from aqueous chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 562-572.	2.4	9
22	Reaction Pathway of the Hydrothermal Synthesis of $AgCuO_2$ from In Situ Time-Resolved X-ray Diffraction. <i>Crystal Growth and Design</i> , 2020, 20, 4264-4272.	3.0	2
23	Performance of a Thermoelectric Module Based on n-Type $(La_{0.12}Sr_{0.88})_{0.95}TiO_3$ and p-Type $Ca_3Co_4O_{9+\delta}$. <i>Journal of Electronic Materials</i> , 2020, 49, 4154-4159.	2.2	6
24	Ferroelectric and dielectric properties of Ca^{2+} -doped and $Ca^{2+}Ti^{4+}$ -co-doped $K_{0.5}Na_{0.5}NbO_3$ thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5102-5111.	5.5	11
25	Controlled Growth of $Sr_xBa_{1-x}Nb_2O_6$ Hopper- and Cube-Shaped Nanostructures by Hydrothermal Synthesis. <i>Chemistry - A European Journal</i> , 2020, 26, 9348-9355.	3.3	8
26	A Fast, Low-Temperature Synthesis Method for Hexagonal $YMnO_3$: Kinetics, Purity, Size and Shape as Studied by In Situ X-ray Diffraction. <i>Chemistry - A European Journal</i> , 2020, 26, 9330-9337.	3.3	4
27	Electric field dependent polarization switching of tetramethylammonium bromotrichloroferrate(III) ferroelectric plastic crystals. <i>Applied Physics Letters</i> , 2020, 116, 242902.	3.3	9
28	In situ synthesis of epoxy nanocomposites with hierarchical surface-modified SiO_2 clusters. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 783-794.	2.4	7
29	Super-coercive electric field hysteresis in ferroelectric plastic crystal tetramethylammonium bromotrichloroferrate(III). <i>Journal of Materials Chemistry C</i> , 2020, 8, 3206-3216.	5.5	11
30	Experimental setup for high-temperature <i>in situ</i> studies of crystallization of thin films with atmosphere control. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1209-1217.	2.4	7
31	Memristive TiO_2 : Synthesis, Technologies, and Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 724.	3.6	36
32	Chemical stability of $Ca_3Co_4O_9$ / $CaMnO_3$ junction for oxide-based thermoelectric generators. <i>RSC Advances</i> , 2020, 10, 5026-5031.	3.6	3
33	Controlling Phase Purity and Texture of $K_{0.5}Na_{0.5}NbO_3$ Thin Films by Aqueous Chemical Solution Deposition. <i>Materials</i> , 2019, 12, 2042.	2.9	13
34	Compositional Engineering of a $La_{1-x}Ba_xCoO_{3-\delta}$ -(1-a) $BaZr_{0.9}Y_{0.1}O_{2.95}$ (a = 0.6, 0.7, 0.8 and x = 0.5, 0.6, 0.7) Nanocomposite Cathodes for Protonic Ceramic Fuel Cells. <i>Materials</i> , 2019, 12, 3441.	2.9	4
35	Composition and morphology tuning during hydrothermal synthesis of $Sr_xBa_{1-x}Nb_2O_6$ tetragonal tungsten bronzes studied by <i>in situ</i> X-ray diffraction. <i>CrystEngComm</i> , 2019, 21, 5922-5930.	2.6	5
36	Long term stability testing of oxide uncouple thermoelectric modules. <i>Materials Today: Proceedings</i> , 2019, 8, 696-705.	1.8	7

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37	Processing of high performance composite cathodes for protonic ceramic fuel cells by exsolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8609-8619.	10.3	50
38	Epitaxial $K_{0.5}Na_{0.5}NbO_3$ thin films by aqueous chemical solution deposition. <i>Royal Society Open Science</i> , 2019, 6, 180989.	2.4	17
39	Thermoelectric Properties of $Ca_3Co_{2-x}Mn_xO_6$ ($x = 0.05, 0.2, 0.5, 0.75, \text{ and } 1$). <i>Materials</i> , 2019, 12, 497.	2.9	6
40	Triple-phase ceramic 2D nanocomposite with enhanced thermoelectric properties. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1237-1244.	5.7	16
41	Epoxy-Based Nanocomposites for High Voltage Insulation: A Review. <i>Advanced Electronic Materials</i> , 2019, 5, 1800505.	5.1	66
42	A comprehensive study on improved power materials for high-temperature thermoelectric generators. <i>Journal of Power Sources</i> , 2019, 410-411, 143-151.	7.8	42
43	Rationalization of Hydrothermal Synthesis of $NaNbO_3$ by Rapid <i>in Situ</i> Time-Resolved Synchrotron X-ray Diffraction. <i>Crystal Growth and Design</i> , 2018, 18, 770-774.	3.0	18
44	Chemical tracer diffusion of Sr and Co in polycrystalline Ca-deficient $CaMnO_{3-\delta}$ with $CaMn_2O_4$ precipitates. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2754-2760.	2.8	6
45	Influence of processing on stability, microstructure and thermoelectric properties of $Ca_3Co_{4-x}O_{9+\delta}$. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1592-1599.	5.7	25
46	Kinetics during hydrothermal synthesis of nanosized $K_xNa_{1-x}NbO_3$. <i>CrystEngComm</i> , 2018, 20, 6795-6802.	2.6	14
47	Enhanced in-plane ferroelectricity in $BaTiO_3$ thin films fabricated by aqueous chemical solution deposition. <i>ALP Advances</i> , 2018, 8, 105228.	1.3	20
48	In Situ Synthesis of Hybrid Inorganic-Polymer Nanocomposites. <i>Polymers</i> , 2018, 10, 1129.	4.5	78
49	High-Performance $La_{0.5}Ba_{0.5}Co_{1/3}Mn_{1/3}Fe_{1/3}O_{3-\delta}$ - $BaZr_{1-x}Zr_xO_{3-\delta}$ Cathode Composites via an Exsolution Mechanism for Protonic Ceramic Fuel Cells. <i>Inorganics</i> , 2018, 6, 83.	2.7	13
50	The Potential of Functionalized Ceramic Particles in Coatings for Improved Scratch Resistance. <i>Coatings</i> , 2018, 8, 224.	2.6	4
51	Facile Low Temperature Hydrothermal Synthesis of $BaTiO_3$ Nanoparticles Studied by In Situ X-ray Diffraction. <i>Crystals</i> , 2018, 8, 253.	2.2	12
52	^{96}Zr Tracer Diffusion in $AZrO_3$ ($A = Ca, Sr, Ba$). <i>Inorganics</i> , 2018, 6, 14.	2.7	9
53	Effect of Cation Ordering on the Performance and Chemical Stability of Layered Double Perovskite Cathodes. <i>Materials</i> , 2018, 11, 196.	2.9	43
54	All-Oxide Thermoelectric Module with in Situ Formed Non-Rectifying Complex p-n Junction and Transverse Thermoelectric Effect. <i>ACS Omega</i> , 2018, 3, 9899-9906.	3.5	13

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55	Toughening of Y-doped BaZrO ₃ proton conducting electrolytes by hydration. Journal of Materials Chemistry A, 2017, 5, 5846-5857.	10.3	36
56	Formation mechanism and growth of MNbO_3 , M=K, Na by in-situ X-ray diffraction. Journal of the American Ceramic Society, 2017, 100, 3835-3842.	3.8	20
57	Controlling Oriented Attachment and in Situ Functionalization of TiO ₂ Nanoparticles During Hydrothermal Synthesis with APTES. Journal of Physical Chemistry C, 2017, 121, 11897-11906.	3.1	26
58	Tracer diffusion of ⁹⁶ Zr and ¹³⁴ Ba in polycrystalline BaZrO ₃ . Physical Chemistry Chemical Physics, 2017, 19, 21878-21886.	2.8	22
59	Surface Diffusion of Oxygen Transport Membrane Materials Studied by Grain Boundary Grooving. Journal of the American Ceramic Society, 2017, 100, 354-364.	3.8	2
60	¹³⁴ Ba diffusion in polycrystalline BaMO ₃ (M = Ti, Zr, Ce). AIP Advances, 2017, 7, .	1.3	9
61	Functionalized TiO ₂ nanoparticles by single-step hydrothermal synthesis: the role of the silane coupling agents. Beilstein Journal of Nanotechnology, 2017, 8, 304-312.	2.8	40
62	Fabrication of Lead-Free Bi _{0.5} Na _{0.5} TiO ₃ Thin Films by Aqueous Chemical Solution Deposition. Materials, 2017, 10, 213.	2.9	13
63	Structure and Optical Properties of Titania-PDMS Hybrid Nanocomposites Prepared by In Situ Non-Aqueous Synthesis. Nanomaterials, 2017, 7, 460.	4.1	23
64	Effect of A-Site Cation Ordering on Chemical Stability, Oxygen Stoichiometry and Electrical Conductivity in Layered LaBaCo ₂ O _{5+δ} Double Perovskite. Materials, 2016, 9, 154.	2.9	52
65	Effect of CO ₂ Exposure on the Chemical Stability and Mechanical Properties of BaZrO ₃ Ceramics. Journal of the American Ceramic Society, 2016, 99, 3685-3695.	3.8	46
66	White light emitting silicon nano-crystals-polymeric hybrid films prepared by single batch solution based method. Thin Solid Films, 2016, 603, 126-133.	1.8	5
67	Diatom frustules as a biomaterial: effects of chemical treatment on organic material removal and mechanical properties in cleaned frustules from two Coscinodiscus species. Journal of Porous Materials, 2016, 23, 905-910.	2.6	9
68	Modified Pechini Synthesis of Oxide Powders and Thin Films. , 2016, , 1-30.		20
69	Wavelength and orientation dependent capture of light by diatom frustule nanostructures. Scientific Reports, 2015, 5, 17403.	3.3	61
70	<i>In-situ</i> structural investigations of ferroelasticity in soft and hard rhombohedral and tetragonal PZT. Journal of Applied Physics, 2015, 118, .	2.5	39
71	Thermal Conductivity of A-Site Cation-Deficient La-Substituted SrTiO ₃ Produced by Spark Plasma Sintering. Energy Harvesting and Systems, 2015, 2, 63-71.	2.7	1
72	Sintering of sub-micron K _{0.5} Na _{0.5} NbO ₃ powders fabricated by spray pyrolysis. Journal of the European Ceramic Society, 2015, 35, 1449-1457.	5.7	38

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73	Piezoelectric $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ Ceramics Textured Using Needlelike $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ Templates. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3010-3025.	3.8	31
74	1D oxide nanostructures from chemical solutions. <i>Chemical Society Reviews</i> , 2014, 43, 2187-2199.	38.1	105
75	Optimisation of chemical solution deposition of indium tin oxide thin films. <i>Thin Solid Films</i> , 2014, 573, 48-55.	1.8	15
76	Atmosphere controlled conductivity and Maxwell-Wagner relaxation in $\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ - BiFeO_3 ceramics. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	39
77	Solid-State Synthesis and Properties of Relaxor $(1-x)\text{BKT}-x\text{BNZ}$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2928-2935.	3.8	26
78	Control of conductivity and electric field induced strain in bulk $\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ - BiFeO_3 ceramics. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	28
79	Nanopatterning and plasmonic properties of plasma sputtered gold on diatom frustules. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1509, 1.	0.1	2
80	Crack Engineering in Thick Coatings Prepared by Spray Pyrolysis Deposition. <i>Journal of the American Ceramic Society</i> , 2013, 96, 420-428.	3.8	6
81	$\text{La}_{28}\text{W}_{4+}\text{O}_{12}$ Powders Prepared by Spray Pyrolysis. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3403-3407.	3.8	12
82	There and Back Again: The Unique Nature of Copper in Ambient Pressure Dried-Silica Aerogels. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20368-20379.	3.1	13
83	Transparent and conducting ITO thin films by spin coating of an aqueous precursor solution. <i>Journal of Materials Chemistry</i> , 2012, 22, 15740.	6.7	106
84	Polarization and strain response in $\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ - BiFeO_3 ceramics. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	54
85	Synthesis of Monodisperse Silicon Quantum Dots Through a K-Naphthalide Reduction Route. <i>Journal of Cluster Science</i> , 2012, 23, 421-435.	3.3	8
86	AFM measurements of forces between silica surfaces. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 460-469.	2.4	12
87	Spark Plasma Sintering and Hot Pressing of Hetero-Doped LaNbO_4 . <i>Journal of the American Ceramic Society</i> , 2012, 95, 1563-1571.	3.8	10
88	Synthesis of anisometric KNbO_3 and $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ single crystals by chemical conversion of non-perovskite templates. <i>CrystEngComm</i> , 2011, 13, 1350-1359.	2.6	22
89	Synthesis, structure and magnetic properties of nanocrystalline YMnO_3 . <i>Dalton Transactions</i> , 2011, 40, 7583.	3.3	51
90	Molten salt synthesis of $\text{K}_4\text{Nb}_6\text{O}_{17}$, $\text{K}_2\text{Nb}_4\text{O}_{11}$ and KNb_3O_8 crystals with needle- or plate-like morphology. <i>CrystEngComm</i> , 2011, 13, 1304-1313.	2.6	49

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91	Deposition Mechanisms of Thick Lanthanum Zirconate Coatings by Spray Pyrolysis. Journal of the American Ceramic Society, 2011, 94, 4256-4262.	3.8	19
92	One-dimensional Nanostructures of Ferroelectric Perovskites. Advanced Materials, 2011, 23, 4007-4034.	21.0	266
93	PbO-deficient PbTiO ₃ : Mass transport, structural effects and possibility for intrinsic screening of the ferroelectric polarization. Applied Physics Letters, 2011, 98, .	3.3	12
94	Polarization control in ferroelectric PbTiO ₃ nanorods. Journal of Applied Physics, 2010, 108, 124320.	2.5	16
95	Deposition of silica thin films formed by sol-gel method. Journal of Sol-Gel Science and Technology, 2010, 54, 249-257.	2.4	8
96	Luminescent properties of rare earth (Er, Yb) doped yttrium aluminium garnet thin films and bulk samples synthesised by an aqueous sol-gel technique. Journal of the European Ceramic Society, 2010, 30, 1707-1715.	5.7	60
97	Uniaxial stress dependence of the dielectric properties in the Na _{0.5} Bi _{0.5} TiO ₃ -NaTaO ₃ system. Journal of Materials Research, 2010, 25, 1784-1792.	2.6	5
98	Synthesis of KNbO ₃ Nanorods by Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2009, 9, 1465-1469.	0.9	29
99	The Effect of Surface Oxides During Hot Pressing of TiB ₂ . Journal of the American Ceramic Society, 2009, 92, 623-630.	3.8	19
100	Backscatter Electron Imaging and Electron Backscatter Diffraction Characterization of LaCoO ₃ During <i>In Situ</i> Compression. Journal of the American Ceramic Society, 2009, 92, 732-737.	3.8	3
101	Hierarchical PbTiO ₃ Nanostructures Grown on SrTiO ₃ Substrates. Crystal Growth and Design, 2009, 9, 1979-1984.	3.0	24
102	High-temperature semiconducting cubic phase of BiFeO ₃ . Physical Review B, 2009, 79, .	3.2	33
103	Hydrothermal synthesis and characterization of KNbO ₃ nanorods. CrystEngComm, 2009, 11, 1958.	2.6	84
104	High-Temperature Proton-Conducting Lanthanum Ortho-Niobate-Based Materials. Part II: Sintering Properties and Solubility of Alkaline Earth Oxides. Journal of the American Ceramic Society, 2008, 91, 879-886.	3.8	66
105	PbTiO ₃ nanorod arrays grown by self-assembly of nanocrystals. Nanotechnology, 2008, 19, 225605.	2.6	36
106	Size-Dependent Properties of Multiferroic BiFeO ₃ Nanoparticles. Chemistry of Materials, 2007, 19, 6478-6484.	6.7	290
107	Decomposition and Crystallization of a Sol-Gel-Derived PbTiO ₃ Precursor. Journal of the American Ceramic Society, 2007, 90, 2649-2652.	3.8	20
108	Preferential Grain Orientation in Hot Pressed TiB ₂ . Journal of the American Ceramic Society, 2007, 90, 1339-1341.	3.8	32

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109	High-Temperature Proton-Conducting LaNbO ₄ -Based Materials: Powder Synthesis by Spray Pyrolysis. Journal of the American Ceramic Society, 2007, 90, 3395-3400.	3.8	55
110	Synthesis of BiFeO ₃ by Wet Chemical Methods. Journal of the American Ceramic Society, 2007, 90, 3430-3434.	3.8	148
111	Grain boundary analysis and secondary phases in LaCoO ₃ -based perovskites. Journal of Materials Science, 2007, 42, 6267-6273.	3.7	4
112	High-Temperature Creep Behavior of Mixed Conducting La _{0.5} Sr _{0.5} Fe _{1-x} Co _x O ₃ (0.5 ≤ x ≤ 1) Materials. Journal of the American Ceramic Society, 2006, 89, 2895-2898.	3.8	24
113	Mechanical properties of mixed conducting La _{0.5} Sr _{0.5} Fe _{1-x} Co _x O ₃ (0 ≤ x ≤ 1) materials. Journal of Solid State Electrochemistry, 2006, 10, 635-642.	2.5	32
114	Tailoring Preferential Orientation in BaTiO ₃ -based Thin Films from Aqueous Chemical Solution Deposition. Chemistry Methods, 0, , .	3.8	2