Mari-Ann Einarsrud

List of Publications by Year
in descending order

114 papers	3,107 citations	147801 31 h-index	182427 51 g-index
121 all docs	121 docs citations	121 times ranked	4264 citing authors

#	Article	IF	Citations
1	Size-Dependent Properties of Multiferroic BiFeO₃ Nanoparticles. Chemistry of Materials, 2007, 19, 6478-6484.	6.7	290
2	Oneâ€Dimensional Nanostructures of Ferroelectric Perovskites. Advanced Materials, 2011, 23, 4007-4034.	21.0	266
3	Synthesis of BiFeO₃ by Wet Chemical Methods. Journal of the American Ceramic Society, 2007, 90, 3430-3434.	3.8	148
4	Transparent and conducting ITO thin films by spin coating of an aqueous precursor solution. Journal of Materials Chemistry, 2012, 22, 15740.	6.7	106
5	1D oxide nanostructures from chemical solutions. Chemical Society Reviews, 2014, 43, 2187-2199.	38.1	105
6	Hydrothermal synthesis and characterization of KNbO3 nanorods. CrystEngComm, 2009, 11, 1958.	2.6	84
7	In Situ Synthesis of Hybrid Inorganicâ€“Polymer Nanocomposites. Polymers, 2018, 10, 1129.	4.5	78
8	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
9	Epoxyâ€Based Nanocomposites for Highâ€Voltage Insulation: A Review. Advanced Electronic Materials, 2019, 5, 1800505.	5.1	66
10	Wavelength and orientation dependent capture of light by diatom frustule nanostructures. Scientific Reports, 2015, 5, 17403.	3.3	61
11	Luminescent properties of rare earth (Er, Yb) doped yttrium aluminium garnet thin films and bulk samples synthesised by an aqueous solâ€“gel technique. Journal of the European Ceramic Society, 2010, 30, 1707-1715.	5.7	60
12	High-Temperature Proton-Conducting LaNbO4-Based Materials: Powder Synthesis by Spray Pyrolysis. Journal of the American Ceramic Society, 2007, 90, 3395-3400.	3.8	55
13	Polarization and strain response in Bi0.5K0.5TiO3-BiFeO3 ceramics. Applied Physics Letters, 2012, 101, .	3.3	54
14	Effect of A-Site Cation Ordering on Chemical Stability, Oxygen Stoichiometry and Electrical Conductivity in Layered LaBaCo2O5+Î´ Double Perovskite. Materials, 2016, 9, 154.	2.9	52
15	Synthesis, structure and magnetic properties of nanocrystalline YMnO3. Dalton Transactions, 2011, 40, 7583.	3.3	51
16	Processing of high performance composite cathodes for protonic ceramic fuel cells by exsolution. Journal of Materials Chemistry A, 2019, 7, 8609-8619.	10.3	50
17	Molten salt synthesis of K₄Nb₆O₁₇, K₂Nb₄O₁₁and KNb₃O₈crystals with needle- or plate-like morphology. CrystEngComm, 2011, 13, 1304-1313.	2.6	49
18	Effect of <scp>CO</scp>₂ Exposure on the Chemical Stability and Mechanical Properties of BaZrO₃â€Ceramics. Journal of the American Ceramic Society, 2016, 99, 3685-3695.	3.8	46

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19	Effect of Cation Ordering on the Performance and Chemical Stability of Layered Double Perovskite Cathodes. Materials, 2018, 11, 196.	2.9	43
20	A comprehensive study on improved power materials for high-temperature thermoelectric generators. Journal of Power Sources, 2019, 410-411, 143-151.	7.8	42
21	Functionalized TiO₂ nanoparticles by single-step hydrothermal synthesis: the role of the silane coupling agents. Beilstein Journal of Nanotechnology, 2017, 8, 304-312.	2.8	40
22	Atmosphere controlled conductivity and Maxwell-Wagner relaxation in Bi0.5K0.5TiO3â€”BiFeO3 ceramics. Journal of Applied Physics, 2014, 115, .	2.5	39
23	In-situ structural investigations of ferroelasticity in soft and hard rhombohedral and tetragonal PZT. Journal of Applied Physics, 2015, 118, .	2.5	39
24	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
25	PbTiO₃nanorod arrays grown by self-assembly of nanocrystals. Nanotechnology, 2008, 19, 225605.	2.6	36
26	Toughening of Y-doped BaZrO₃ proton conducting electrolytes by hydration. Journal of Materials Chemistry A, 2017, 5, 5846-5857.	10.3	36
27	Memristive TiO2: Synthesis, Technologies, and Applications. Frontiers in Chemistry, 2020, 8, 724.	3.6	36
28	High-temperature semiconducting cubic phase ofBiFe0.7Mn0.3O3+Î´. Physical Review B, 2009, 79, .	3.2	33
29	Mechanical properties of mixed conducting La0.5Sr0.5Fe1âˆ’x Co x O3âˆ’Î´ (0â‰¤xâ‰¤1) materials. Journal of Solid State Electrochemistry, 2006, 10, 635-642.	2.5	32
30	Preferential Grain Orientation in Hot Pressed TiB2. Journal of the American Ceramic Society, 2007, 90, 1339-1341.	3.8	32
31	Thermoelectric properties of A-site deficient La-doped SrTiO3 at 100â€“900â€¯Â°C under reducing conditions. Journal of the European Ceramic Society, 2020, 40, 401-407.	5.7	32
32	Piezoelectric <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Ceramics Textured Using Needlelike <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Templates. Journal of the American Ceramic Society, 2014, 97, 3818-3825.	3.8	31
33	Synthesis of KNbO₃ Nanorods by Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2009, 9, 1465-1469.	0.9	29
34	Biocompatibility of (Ba,Ca)(Zr,Ti)O₃ piezoelectric ceramics for bone replacement materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1295-1303.	3.4	29
35	Control of conductivity and electric field induced strain in bulk Bi0.5K0.5TiO3â€“BiFeO3 ceramics. Applied Physics Letters, 2014, 104, .	3.3	28
36	Solidâ€State Synthesis and Properties of Relaxor (1âˆ’x)BKTâ€“xBNZ Ceramics. Journal of the American Ceramic Society, 2014, 97, 2928-2935.	3.8	26

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37	Controlling Oriented Attachment and in Situ Functionalization of TiO₂ Nanoparticles During Hydrothermal Synthesis with APTES. Journal of Physical Chemistry C, 2017, 121, 11897-11906.	3.1	26
38	Influence of processing on stability, microstructure and thermoelectric properties of Ca3Co4â^'xO9+Î´. Journal of the European Ceramic Society, 2018, 38, 1592-1599.	5.7	25
39	Highâ€Temperature Creep Behavior of Mixed Conducting La_{0.5}Sr_{0.5}Fe_{1â^'x}Co_xO_{3â€Î´} (0.5â‰¤xâ‰¤1) Materials. Journal of the American Ceramic Society, 2006, 89, 2895-2898.	3.8	24
40	Hierarchical PbTiO3 Nanostructures Grown on SrTiO3 Substrates. Crystal Growth and Design, 2009, 9, 1979-1984.	3.0	24
41	Structure and Optical Properties of Titania-PDMS Hybrid Nanocomposites Prepared by In Situ Non-Aqueous Synthesis. Nanomaterials, 2017, 7, 460.	4.1	23
42	Synthesis of anisometric KNbO₃and K_{0.5}Na_{0.5}NbO₃single crystals by chemical conversion of non-perovskite templates. CrystEngComm, 2011, 13, 1350-1359.	2.6	22
43	Tracer diffusion of⁹⁶Zr and¹³⁴Ba in polycrystalline BaZrO₃. Physical Chemistry Chemical Physics, 2017, 19, 21878-21886.	2.8	22
44	Decomposition and Crystallization of a Sol?Gel-Derived PbTiO3Precursor. Journal of the American Ceramic Society, 2007, 90, 2649-2652.	3.8	20
45	Formation mechanism and growth of <scp>MN</scp>bO₃, M=K, Na by inÂsitu Xâ€ray diffraction. Journal of the American Ceramic Society, 2017, 100, 3835-3842.	3.8	20
46	Enhanced in-plane ferroelectricity in BaTiO3 thin films fabricated by aqueous chemical solution deposition. AIP Advances, 2018, 8, 105228.	1.3	20
47	Modified Pechini Synthesis of Oxide Powders and Thin Films. , 2016, , 1-30.		20
48	The Effect of Surface Oxides During Hot Pressing of TiB₂. Journal of the American Ceramic Society, 2009, 92, 623-630.	3.8	19
49	Deposition Mechanisms of Thick Lanthanum Zirconate Coatings by Spray Pyrolysis. Journal of the American Ceramic Society, 2011, 94, 4256-4262.	3.8	19
50	Rationalization of Hydrothermal Synthesis of NaNbO₃ by Rapid in Situ Time-Resolved Synchrotron X-ray Diffraction. Crystal Growth and Design, 2018, 18, 770-774.	3.0	18
51	Epitaxial K _{0.5} Na _{0.5} NbO ₃ thin films by aqueous chemical solution deposition. Royal Society Open Science, 2019, 6, 180989.	2.4	17
52	Thermoelectric properties of non-stoichiometric CaMnO3-Î´ composites formed by redox-activated exsolution. Journal of the European Ceramic Society, 2020, 40, 1344-1351.	5.7	17
53	Polarization control in ferroelectric PbTiO3 nanorods. Journal of Applied Physics, 2010, 108, 124320.	2.5	16
54	Triple-phase ceramic 2D nanocomposite with enhanced thermoelectric properties. Journal of the European Ceramic Society, 2019, 39, 1237-1244.	5.7	16

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55	In Vitro Biocompatibility of Piezoelectric K_{0.5}Na_{0.5}NbO₃ Thin Films on Platinized Silicon Substrates. ACS Applied Bio Materials, 2020, 3, 8714-8721.	4.6	16
56	Optimisation of chemical solution deposition of indium tin oxide thin films. Thin Solid Films, 2014, 573, 48-55.	1.8	15
57	Kinetics during hydrothermal synthesis of nanosized KxNa1â^'xNbO3. CrystEngComm, 2018, 20, 6795-6802.	2.6	14
58	There and Back Again: The Unique Nature of Copper in Ambient Pressure Dried-Silica Aerogels. Journal of Physical Chemistry C, 2012, 116, 20368-20379.	3.1	13
59	Fabrication of Lead-Free Bi0.5Na0.5TiO3 Thin Films by Aqueous Chemical Solution Deposition. Materials, 2017, 10, 213.	2.9	13
60	High-Performance La0.5Ba0.5Co1/3Mn1/3Fe1/3O3â^'Î´-BaZr1â^'zYzO3â^'Î´ Cathode Composites via an Exsolution Mechanism for Protonic Ceramic Fuel Cells. Inorganics, 2018, 6, 83.	2.7	13
61	All-Oxide Thermoelectric Module with in Situ Formed Non-Rectifying Complex pâ€“pâ€“n Junction and Transverse Thermoelectric Effect. ACS Omega, 2018, 3, 9899-9906.	3.5	13
62	Controlling Phase Purity and Texture of K0.5Na0.5NbO3 Thin Films by Aqueous Chemical Solution Deposition. Materials, 2019, 12, 2042.	2.9	13
63	PbO-deficient PbTiO3: Mass transport, structural effects and possibility for intrinsic screening of the ferroelectric polarization. Applied Physics Letters, 2011, 98, .	3.3	12
64	<scp><scp>La</scp></scp>_{28â^'x}<scp><scp>W</scp></scp>_{4+x}<scp><scp>O</scp></scp><s Powders Prepared by Spray Pyrolysis. Journal of the American Ceramic Society, 2012, 95, 3403-3407.	3.8	12
65	AFM measurements of forces between silica surfaces. Journal of Sol-Gel Science and Technology, 2012, 62, 460-469.	2.4	12
66	Facile Low Temperature Hydrothermal Synthesis of BaTiO3 Nanoparticles Studied by In Situ X-ray Diffraction. Crystals, 2018, 8, 253.	2.2	12
67	Ferroelectric and dielectric properties of Ca²⁺-doped and Ca²⁺â€“Ti⁴⁺co-doped K_{0.5}Na_{0.5}NbO₃thin films. Journal of Materials Chemistry C, 2020, 8, 5102-5111.	5.5	11
68	Super-coercive electric field hysteresis in ferroelectric plastic crystal tetramethylammonium bromotrichloroferrate(<scp>iii</scp>). Journal of Materials Chemistry C, 2020, 8, 3206-3216.	5.5	11
69	Spark Plasma Sintering and Hot Pressing of Heteroâ€Doped <scp><scp>LaNbO</scp></scp>₄. Journal of the American Ceramic Society, 2012, 95, 1563-1571.	3.8	10
70	Anisotropic in-plane dielectric and ferroelectric properties of tensile-strained BaTiO3 films with three different crystallographic orientations. AIP Advances, 2021, 11, 025016.	1.3	10
71	Modulating acrylic acid content of nanogels for drug delivery & biocompatibility studies. Journal of Colloid and Interface Science, 2022, 607, 76-88.	9.4	10
72	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

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73	134Ba diffusion in polycrystalline BaMO3 (M = Ti, Zr, Ce). AIP Advances, 2017, 7, .	1.3	9
74	96Zr Tracer Diffusion in AZrO3 (A = Ca, Sr, Ba). Inorganics, 2018, 6, 14.	2.7	9
75	Mechanisms for texture in BaTiO3 thin films from aqueous chemical solution deposition. Journal of Sol-Gel Science and Technology, 2020, 95, 562-572.	2.4	9
76	Electric field dependent polarization switching of tetramethylammonium bromotrichloroferrate(III) ferroelectric plastic crystals. Applied Physics Letters, 2020, 116, 242902.	3.3	9
77	Deposition of silica thin films formed by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2010, 54, 249-257.	2.4	8
78	Synthesis of Monodisperse Silicon Quantum Dots Through a K-Naphthalide Reduction Route. Journal of Cluster Science, 2012, 23, 421-435.	3.3	8
79	On the formation mechanism of Ba0.85Ca0.15Zr0.1Ti0.9O3 thin films by aqueous chemical solution deposition. Journal of the European Ceramic Society, 2020, 40, 5376-5383.	5.7	8
80	Controlled Growth of Sr x Ba 1â^' x Nb 2 O 6 Hopperâ€•and Cubeâ€Shaped Nanostructures by Hydrothermal Synthesis. Chemistry - A European Journal, 2020, 26, 9348-9355.	3.3	8
81	Long term stability testing of oxide unicouple thermoelectric modules. Materials Today: Proceedings, 2019, 8, 696-705.	1.8	7
82	In situ synthesis of epoxy nanocomposites with hierarchical surface-modified SiO2 clusters. Journal of Sol-Gel Science and Technology, 2020, 95, 783-794.	2.4	7
83	Understanding the Hydrothermal Formation of NaNbO3: Its Full Reaction Scheme and Kinetics. Inorganic Chemistry, 2021, 60, 7632-7640.	4.0	7
84	Experimental setup for high-temperature in situ studies of crystallization of thin films with atmosphere control. Journal of Synchrotron Radiation, 2020, 27, 1209-1217.	2.4	7
85	Crack Engineering in Thick Coatings Prepared by Spray Pyrolysis Deposition. Journal of the American Ceramic Society, 2013, 96, 420-428.	3.8	6
86	Chemical tracer diffusion of Sr and Co in polycrystalline Ca-deficient CaMnO_{3â^'Î´}with CaMn₂O₄precipitates. Physical Chemistry Chemical Physics, 2018, 20, 2754-2760.	2.8	6
87	Thermoelectric Properties of Ca3Co2â^'xMnxO6 (x = 0.05, 0.2, 0.5, 0.75, and 1). Materials, 2019, 12, 497.	2.9	6
88	Performance of a Thermoelectric Module Based on n-Type (La0.12Sr0.88)0.95TiO3â^'Î´ and p-Type Ca3Co4â^'xO9+Î´. Journal of Electronic Materials, 2020, 49, 4154-4159.	2.2	6
89	Structures and Role of the Intermediate Phases on the Crystallization of BaTiO₃ from an Aqueous Synthesis Route. ACS Omega, 2021, 6, 9567-9576.	3.5	6
90	The Structure, Morphology, and Complex Permittivity of Epoxy Nanodielectrics with In Situ Synthesized Surface-Functionalized SiO2. Polymers, 2021, 13, 1469.	4.5	6

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91	Time-Enhanced Performance of Oxide Thermoelectric Modules Based on a Hybrid pâ€“n Junction. ACS Omega, 2021, 6, 197-205.	3.5	6
92	Uniaxial stress dependence of the dielectric properties in the Na_{0.5}Bi_{0.5}TiO₃â€“NaTaO₃ system. Journal of Materials Research, 2010, 25, 1784-1792.	2.6	5
93	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
94	Composition and morphology tuning during hydrothermal synthesis of Sr_xBa_{1â^'x}Nb₂O₆tetragonal tungsten bronzes studied byin situX-ray diffraction. CrystEngComm, 2019, 21, 5922-5930.	2.6	5
95	Mesophase Transitions in [(C₂H₅)₄N][FeBrCl₃] and [(CH₃)₄N][FeBrCl₃] Ferroic Plastic Crystals. Chemistry of Materials, 2022, 34, 2585-2598.	6.7	5
96	Grain boundary analysis and secondary phases in LaCoO3-based perovskites. Journal of Materials Science, 2007, 42, 6267-6273.	3.7	4
97	The Potential of Functionalized Ceramic Particles in Coatings for Improved Scratch Resistance. Coatings, 2018, 8, 224.	2.6	4
98	Compositional Engineering of a La1-xBaxCoO3-Î´-(1-a) BaZr0.9Y0.1O2.95 (a = 0.6, 0.7, 0.8 and x = 0.5, 0.6, 0.7) Nanocomposite Cathodes for Protonic Ceramic Fuel Cells. Materials, 2019, 12, 3441.	2.9	4
99	A Fast, Lowâ€Temperature Synthesis Method for Hexagonal YMnO 3 : Kinetics, Purity, Size and Shape as Studied by In Situ Xâ€ray Diffraction. Chemistry - A European Journal, 2020, 26, 9330-9337.	3.3	4
100	Mechanical and tribological properties of injection molded zirconia-alumina for orthopedic implants. Ceramics International, 2022, 48, 31211-31222.	4.8	4
101	Backscatter Electron Imaging and Electron Backscatter Diffraction Characterization of LaCoO₃ During In Situ Compression. Journal of the American Ceramic Society, 2009, 92, 732-737.	3.8	3
102	Fluorescent Nanocomposites: Hollow Silica Microspheres with Embedded Carbon Dots. ChemPlusChem, 2021, 86, 176-183.	2.8	3
103	Chemical stability of Ca₃Co_{4â^'x}O_{9+Î´}/CaMnO_{3â^'Î´} pâ€“n junction for oxide-based thermoelectric generators. RSC Advances, 2020, 10, 5026-5031.	3.6	3
104	The effect of alkaline earth metal substitution on thermoelectric properties of A0.98La0.02MnO3-Î´ (A=Ca,Ba). Processing and Application of Ceramics, 2022, 16, 78-82.	0.8	3
105	Nanopatterning and plasmonic properties of plasma sputtered gold on diatom frustules. Materials Research Society Symposia Proceedings, 2013, 1509, 1.	0.1	2
106	Surface Diffusion of Oxygen Transport Membrane Materials Studied by Grainâ€Boundary Grooving. Journal of the American Ceramic Society, 2017, 100, 354-364.	3.8	2
107	Microstructural and compositional optimization of La_{0.5}Ba_{0.5}CoO_{3â^'Î´}â€”BaZr_{1â^'z}Y_zO_{3â^'Î´} (zÂ=Â0, 0.05 and 0.1) nanocomposite cathodes for protonic ceramic fuel cells. JPhys Energy, 2020, 2, 015001.	5.3	2
108	Reaction Pathway of the Hydrothermal Synthesis of AgCuO2 from In Situ Time-Resolved X-ray Diffraction. Crystal Growth and Design, 2020, 20, 4264-4272.	3.0	2

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109	Hydrothermal synthesis of hexagonal YMnO₃ and YbMnO₃ below 250 Â°C. Dalton Transactions, 2021, 50, 9904-9913.	3.3	2
110	Tailoring Preferential Orientation in BaTiO 3 â€based Thin Films from Aqueous Chemical Solution Deposition. Chemistry Methods, 0, , .	3.8	2
111	Thermal Conductivity of A-Site Cation-Deficient La-Substituted SrTiO₃ Produced by Spark Plasma Sintering. Energy Harvesting and Systems, 2015, 2, 63-71.	2.7	1
112	Phase relations and thermomechanical properties of (Gd2Zr2O7)1â^'x(YbSZ)x based thermal barrier coatings (0â€‰â‰€â€‰xâ€‰â‰€â€‰0.98). Journal of Materials Research, 2021, 36, 3226.	2.6	1
113	In situ X-ray diffraction studies of the crystallization of K0.5Na0.5NbO3 powders and thin films from an aqueous synthesis route. Open Ceramics, 2021, 7, 100147.	2.0	1
114	Tailoring Preferential Orientation in BaTiO 3 â€based Thin Films from Aqueous Chemical Solution Deposition. Chemistry Methods, 2022, 2, .	3.8	0