

# Low-Temperature Route to Lead Magnesium Niobate

Journal of the American Ceramic Society

72, 1355-1357

DOI: [10.1111/j.1151-2916.1989.tb07651.x](https://doi.org/10.1111/j.1151-2916.1989.tb07651.x)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Heterometallic Alkoxides as Precursors to Multicomponent Oxides. Materials Research Society Symposia Proceedings, 1990, 180, 393.	0.1	3
2	Sol-gel processing and properties of lead magnesium niobate powders and thin layers. Journal of Materials Science, 1990, 25, 5007-5013.	3.7	88
3	Lead(II) oxoalkoxides as complex ligands: synthesis and molecular structure of the first heterometallic oxoalkoxide, $\text{Pb}_6\text{Nb}_4(\text{A}\mu_4\text{-O})_4(\text{A}\mu_3\text{-OEt})_4(\text{A}\mu_2\text{-OEt})_{12}(\text{OEt})_8$ . Journal of the Chemical Society Chemical Communications, 1990, , 695-697.	2.0	23
4	Lower-temperature preparation of with a perovskite structure by the complex alkoxide method. Journal of Non-Crystalline Solids, 1991, 134, 293-295.	3.1	10
5	Microstructure of Solution-Processed Lead Zirconate Titanate (PZT) Thin Films. Journal of the American Ceramic Society, 1991, 74, 1455-1458.	3.8	181
6	Synthesis and Dielectric Properties of Solution Sol-Gel-Derived $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.1\text{PbTiO}_3$ Ceramics. Journal of the American Ceramic Society, 1991, 74, 2996-2999.	3.8	63
7	Formation of the Perovskite Phase in the $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3\text{PbTiO}_3$ System. Journal of the American Ceramic Society, 1991, 74, 1152-1156.	3.8	62
8	Reaction Kinetics of Perovskite Phase Formation in Lead Zinc Magnesium Niobate Ceramics. Journal of the American Ceramic Society, 1991, 74, 2506-2512.	3.8	18
9	Effect of Barium Titanate on Microstructural Evolution and Properties of Lead Zinc Magnesium Niobate Ceramics. Journal of the American Ceramic Society, 1991, 74, 400-405.	3.8	24
10	Synthesis, characterization and reactivity of lead(II) alkoxides and oxoalkoxides: Condensation to oxoalkoxides as a general structural feature. Polyhedron, 1991, 10, 1657-1662.	2.2	41
11	Preparation and characterization of uniform submicrometer metal niobate particles. I. Lead niobate. Journal of Materials Research, 1991, 6, 840-850.	2.6	22
12	Preparation of $\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics as microwave dielectrics through alkoxide-hydroxide route. Journal of Materials Research, 1992, 7, 1883-1887.	2.6	24
13	Heterometallic Aggregates as Intermediates on the Molecular Routes to Multicomponent Oxides. Materials Research Society Symposia Proceedings, 1992, 271, 15.	0.1	16
14	Molecular routes to ternary metal oxides: Pb:Ti heterometallic oxoisopropoxide as a precursor to $\text{PbTiO}_3$ . Journal of Non-Crystalline Solids, 1992, 147-148, 36-40.	3.1	14
15	Elaboration and characterization of lead perovskites from colloidal solution. Journal of Non-Crystalline Solids, 1992, 147-148, 74-79.	3.1	3
16	Electrical and optical properties of chemically derived ferroelectric films. Journal of Non-Crystalline Solids, 1992, 147-148, 409-423.	3.1	31
17	Sol-Gel Processing and Microwave Characteristics of $\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Dielectrics. Journal of the American Ceramic Society, 1992, 75, 3337-3340.	3.8	73
18	Formation Process and Microstructural Evolution of Sol-Gel-Derived Ferroelectric Lead Iron Tungstate Ceramics. Journal of the American Ceramic Society, 1992, 75, 1303-1306.	3.8	19

#	ARTICLE	IF	CITATIONS
19	Aerogelsâ€™ Preparation, properties, applications. Structure and Bonding, 1992, , 37-87.	1.0	123
20	Formation of perovskite-type $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ under hydrothermal conditions. Journal of Materials Science Letters, 1993, 12, 1842-1843.	0.5	14
21	Powder Characteristics of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Prepared by Molten Salt Synthesis. Journal of the American Ceramic Society, 1993, 76, 1373-1376.	3.8	78
22	Synthesis of perovskite lead magnesium niobate using partial oxalate method. Materials Research Bulletin, 1993, 28, 1295-1301.	5.2	14
23	Effect of ZnO on dielectric properties of $\text{Pb}(\text{Mg}_{x}\text{Nb}_{1-x})\text{O}_3$ - $\text{PbTiO}_3$ . Ferroelectrics, 1993, 146, 57-64.	0.6	4
24	Dielectric properties of lead perovskites as a function of processing and precursors. Ferroelectrics, 1994, 154, 213-218.	0.6	1
25	Processing and properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbZrO}_3$ - $\text{PbTiO}_3$ ceramic relaxors. Journal of Materials Science, 1994, 29, 1090-1096.	3.7	10
26	The quest for mixed-metal alkoxides based on zinc: Synthesis and characterization of zinc-tantalum oxoisopropoxides. Journal of Sol-Gel Science and Technology, 1994, 2, 11-15.	2.4	3
27	Synthesis and dielectric properties of lead magnesium niobate a review. Materials Chemistry and Physics, 1994, 39, 98-109.	4.0	42
28	Heterometallic alkoxides and oxoalkoxides as intermediates in chemical routes to mixed metal oxides. Polyhedron, 1994, 13, 1181-1195.	2.2	97
29	Temperature-Stable lead-Relaxor-Based Ceramic Dielectrics with Chemical Inhomogeneity. Journal of the American Ceramic Society, 1994, 77, 1451-1456.	3.8	15
30	Heterometal Alkoxides as Precursors in the Sol-Gel Process. , 1994, , 41-60.		1
31	Synthesis and characterization of tantalumâ€™zinc oxoisopropoxides. Molecular structure of $[\text{ZnTa}_2(\mu\text{-O})(\mu\text{-O})(\mu\text{-OPri})_3(\text{OPri})_4]_2$ containing an unprecedented tantalum oxoalkoxide anion. Journal of the Chemical Society Chemical Communications, 1994, , 601-602.	2.0	16
32	Chemical Structure of a Complex Alkoxide as a Precursor of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ . Journal of the Ceramic Society of Japan, 1994, 102, 393-396.	1.3	3
33	Preparation and Electrical Conductivity of Metallic Conductive $\text{BaPbO}_{3-x}$ ; Thin Films by Metal-Alkoxide Method. Journal of the Ceramic Society of Japan, 1995, 103, 822-827.	1.3	7
34	Synthesis of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ perovskite by an alkoxide method. Journal of Materials Science, 1995, 30, 3936-3943.	3.7	9
35	Stability of lead magnesium niobate under hydrothermal conditions. Journal of Materials Science, 1995, 30, 1361-1366.	3.7	3
36	Perovskite phase formation in the $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ - $\text{PbZrO}_3$ - $\text{PbTiO}_3$ system by the columbite route. Journal of Materials Science, 1995, 30, 1391-1396.	3.7	8

#	ARTICLE	IF	CITATIONS
37	Role of excess PbO on the microstructure and dielectric properties of lead magnesium niobate. Journal of Materials Research, 1995, 10, 953-961.	2.6	45
38	Isopropanol Effects on the Phase Formation and Texturing of Sol-Gel Derived PMN Thin Films. Japanese Journal of Applied Physics, 1995, 34, L716-L719.	1.5	1
39	Preparation of pyrochlore-free lead magnesium niobate via adding excess constituent compounds. Materials Letters, 1996, 27, 71-75.	2.6	5
40	Surface study of lead magnesium niobate ceramic using X-ray photoelectron spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 39, 34-40.	3.5	14
41	Dielectric and microstructure studies of lead magnesium niobate prepared by partial oxalate route. Journal of the European Ceramic Society, 1996, 16, 473-480.	5.7	34
42	Chemical Preparation of Lead-Containing Niobate Powders. Journal of the American Ceramic Society, 1996, 79, 2417-2421.	3.8	31
43	Synthesis, dielectric and microstructure studies of lead magnesium niobate stabilised using lead titanate. Ferroelectrics, 1996, 189, 17-25.	0.6	7
44	Chemically Prepared Lead Magnesium Niobate Dielectrics. Materials Research Society Symposia Proceedings, 1997, 495, 185.	0.1	0
45	Chemical routes to oxides: alkoxide vs. alkoxide-acetate routes: synthesis, characterization, reactivity and polycondensation of $MNb_2(OAc)_2(OPri)_2$ ( $M=Mg, Cd, Pb$ ) species. Journal of Materials Chemistry, 1997, 7, 2053-2061.	6.7	38
46	Synthesis, Decomposition and Crystallization Characteristics of Peroxo-citrate Niobium: An Aqueous Niobium Precursor. Chemistry of Materials, 1997, 9, 580-587.	6.7	115
47	Formation of Lead Magnesium Niobate Perovskite from Niobate Precursors Having Varying Magnesium Content. Journal of the American Ceramic Society, 1997, 80, 770-772.	3.8	49
48	Formation of lead magnesium niobate perovskite from $MgNb_2O_6$ and $Pb_3Nb_2O_8$ precursors. Materials Research Bulletin, 1997, 32, 1643-1649.	5.2	33
49	The effect of pyrochlore phase on formation mechanism and electrical properties of perovskite PZMN relaxors. Materials Chemistry and Physics, 1997, 49, 70-77.	4.0	24
50	Mechanisms of phase separation in gel-based synthesis of multicomponent metal oxides. Catalysis Today, 1997, 35, 247-268.	4.4	94
51	Synthesis and characterisation of lead magnesium niobate having exceptionally high dielectric constant. Ceramics International, 1997, 23, 191-196.	4.8	14
52	Processing and properties of $(1-x)Pb(Mg_{1/3}Nb_{2/3})O_3 \cdot xPbTiO_3$ solid solutions from PbO- and MgO-excess compositions. Materials Research Bulletin, 1998, 33, 1367-1375.	5.2	32
53	Thermal decomposition and kinetic analysis of relaxor ferroelectric lead magnesium niobate. Journal of the European Ceramic Society, 1998, 18, 1599-1607.	5.7	8
54	Relaxor behavior and electromechanical properties of $Pb(Mg_{1/3}Nb_{2/3})O_3$ thin films. Applied Physics Letters, 1998, 73, 2281-2283.	3.3	69

#	ARTICLE	IF	CITATIONS
55	Preparation of CdTe by Thermal Decomposition of Metal Alkoxide. Journal of the Ceramic Society of Japan, 1998, 106, 989-993.	1.3	3
56	Target Crystallography and the Growth of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (PMN) Thin Films. Materials Research Society Symposia Proceedings, 1998, 541, 685.	0.1	0
57	The effect of target crystallography on the growth of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ thin films using pulsed laser deposition. Journal of Materials Research, 1999, 14, 2355-2358.	2.6	4
58	A sol-gel derived $0.9\text{Pb}(\text{Mg}_{1/2}\text{Nb}_{2/3})\text{O}_3 \cdot 0.1\text{PbTiO}_3$ ceramic. Journal of Materials Research, 1999, 14, 537-545.	2.6	10
59	Effect of phase separation in metal carboxylate gels on perovskite lead magnesium niobate crystallization. Journal of Materials Research, 1999, 14, 3921-3931.	2.6	12
60	Effects of $\text{PbO}$ excess in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \cdot \text{PbTiO}_3$ ceramics: Part I. Sintering and dielectric properties. Journal of Materials Research, 1999, 14, 891-897.	2.6	30
61	A modified two-Stage mixed oxide synthetic route to lead magnesium niobate and lead iron niobate. Journal of the European Ceramic Society, 1999, 19, 155-163.	5.7	82
62	Pressureless sintering of $\text{PMN} \cdot \text{PT}$ ceramics. Journal of the European Ceramic Society, 1999, 19, 1053-1056.	5.7	7
63	Fabrication of PMN and PFN ceramics by a two-stage sintering technique. Journal of the European Ceramic Society, 1999, 19, 2917-2930.	5.7	43
64	Formation and Transformation of Cubic Lead Niobate Pyrochlore Solid Solutions. Journal of the American Ceramic Society, 1999, 82, 1070-1072.	3.8	9
65	Seeding of Perovskite Lead Magnesium Niobate Crystallization from $\text{Pb} \cdot \text{Mg} \cdot \text{Nb} \cdot \text{EDTA}$ Gels. Journal of the American Ceramic Society, 1999, 82, 1659-1664.	3.8	23
66	Title is missing!. Journal of Materials Science, 1999, 34, 4985-4994.	3.7	26
67	Raman Spectroscopic Determination of Pyrochlore-Type Compound on the Synthesis and Decomposition of Sol-Gel-Derived $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (PMN). Journal of Solid State Chemistry, 1999, 142, 344-348.	2.9	21
68	Single step chemical synthesis of lead based relaxor ferroelectric niobate fine powders. Scripta Materialia, 1999, 11, 325-330.	0.5	21
69	Preparation and electromechanical properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ thin film. Ferroelectrics, 1999, 224, 291-298.	0.6	4
70	Relaxor $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Thin Films: Processing, Dielectric and Electrostrictive Properties. Materials Research Society Symposia Proceedings, 1999, 596, 523.	0.1	2
71	Modification of mechanical properties in PMNT 90:10 by substitution with La. Journal of the European Ceramic Society, 2000, 20, 2035-2038.	5.7	1
72	Preparation and dielectric properties by sol-gel derived PMN-PT powder and ceramic. Materials Chemistry and Physics, 2000, 64, 1-4.	4.0	32

#	ARTICLE	IF	CITATIONS
73	Title is missing!. Journal of Materials Science, 2000, 35, 2055-2059.	3.7	21
74	Phase analysis and dielectric properties of ceramics in PbO-MgO-ZnO-Nb <sub>2</sub> O <sub>5</sub> system: A comparative study of materials obtained by ceramic and molten salt synthesis routes. Bulletin of Materials Science, 2000, 23, 255-261.	1.7	6
75	Low temperature chemical synthesis of nanocrystalline Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> â€“xPb(Fe <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> (x = 0.1, 0.2, and 1) ceramics. Journal of Materials Research, 2000, 15, 2273-2275.	2.6	4
76	Chemical synthesis of fine powder of lead magnesium niobate using niobium tartarate complex. Materials Letters, 2000, 46, 7-14.	2.6	43
77	Solâ€“Gel Synthesis and Characterization of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> (PMN) Ferroelectric Perovskite. Chemistry of Materials, 2000, 12, 400-405.	6.7	29
78	Dielectric and electromechanical properties of ferroelectric-relaxor 0.9 Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> â€“0.1PbTiO <sub>3</sub> thin films. Journal of Applied Physics, 2001, 90, 4682-4689.	2.5	56
79	Low temperature sintering of PMN ceramics by doping with SrO. Materials Letters, 2001, 49, 345-351.	2.6	23
80	Hydrothermal synthesis of lead magnoniobate powder. Ferroelectrics, 2001, 264, 105-110.	0.6	1
81	Self polarization in relaxor Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> thin films. , 0, , .		0
82	Preparation of PMN powders and ceramics via a high-energy ball milling process. Journal of Materials Science Letters, 2001, 20, 1241-1243.	0.5	9
83	Dielectric ceramics. , 2001, , 175-199.		10
84	Effect of Barium Titanate Seed Particles on the Sintering and Lattice Parameters in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> Ceramics. Journal of Materials Research, 2002, 17, 620-624.	2.6	8
85	Preparation of PMNâ€“PT ceramics via a high-energy ball milling process. Journal of Alloys and Compounds, 2002, 336, 242-246.	5.5	50
86	Low temperature preparation of nanocrystalline solid solution of strontiumâ€“bariumâ€“niobate by chemical process. Materials Letters, 2002, 52, 180-186.	2.6	31
87	Rapid formation of lead magnesium niobate-based ferroelectric ceramics via a high-energy ball milling process. Materials Research Bulletin, 2002, 37, 459-465.	5.2	23
88	Direct synthesis of PMN samples by spray-drying. Journal of the European Ceramic Society, 2002, 22, 2093-2100.	5.7	20
89	Title is missing!. Journal of Materials Science Letters, 2002, 21, 673-675.	0.5	4
90	Phase formation and characterization of [Fe, Mg]NbO <sub>4</sub> as a new precursor for the PMNâ€“PFN system. Journal of Materials Science, 2002, 37, 5089-5093.	3.7	6

#	ARTICLE	IF	CITATIONS
91	Preparation and Characterization of Compositions Based on PbO-MgO-Nb <sub>2</sub> O <sub>5</sub> Using the Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2003, 26, 1061-1065.	2.4	6
92	Stoichiometric Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> perovskite ceramics produced by reaction-sintering process. Materials Research Bulletin, 2003, 38, 1351-1357.	5.2	39
93	Stoichiometric perovskite PMN-PT ceramics produced by reaction-sintering process. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 103, 281-284.	3.5	24
94	Single-Step Calcination Synthesis of Pyrochlore-Free 0.9Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and 0.1PbTiO <sub>3</sub> and Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Ceramics Using a Coating Method. Journal of the American Ceramic Society, 2003, 86, 217-221.	3.8	41
95	Stoichiometric Perovskite Lead Magnesium Niobate Ceramics Produced by Reaction-Sintering Process. Japanese Journal of Applied Physics, 2003, 42, 175-181.	1.5	22
96	Phase Formation of Perovskite Lead Magnesium Niobate Prepared by an Aqueous Solution-Gel Method. Key Engineering Materials, 2004, 264-268, 347-350.	0.4	5
97	Novel Route to Lead-Based Ferroelectric Compounds via Tetragonal Lead(II) Oxide Intermediates. Journal of the American Ceramic Society, 2000, 83, 2214-2218.	3.8	9
98	Low-Temperature Sintering and Piezoelectric Properties of 0.6Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> and 0.4Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Ceramics. Journal of the American Ceramic Society, 2004, 87, 1238-1243.	3.5	51
99	PMN-PFN Relaxor Ferroelectric Ceramics by a Reaction-Sintering Process. , 2004, 12, 187-190.		13
100	Pb((Mg <sub>0.7</sub> Zn <sub>0.3</sub> ) <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Relaxor Ferroelectric Ceramics by a Reaction-Sintering Process. Journal of Electroceramics, 2004, 13, 453-456.	2.0	8
101	PMN ceramics produced by a simplified columbite route. Ceramics International, 2004, 30, 17-22.	4.8	22
102	Phase formation and dielectric properties of 0.90Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and 0.10PbTiO <sub>3</sub> ceramics prepared by a new sol-gel method. Ceramics International, 2004, 30, 1411-1417.	4.8	28
103	Effect of heating rate on properties of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ceramics produced by the reaction-sintering process. Materials Letters, 2004, 58, 944-947.	2.6	9
104	Kinetic Analysis of Combustion Synthesis of Lead Magnesium Niobate from Metal Carboxylate Gels. Journal of the American Ceramic Society, 1997, 80, 915-924.	3.8	50
105	Estimation of Phase Stability in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Using the Bond Valence Approach. Journal of the American Ceramic Society, 1997, 80, 3217-3220.	3.8	66
106	New Preparation Method of Low-Temperature-Sinterable Perovskite 0.9Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and 0.1PbTiO <sub>3</sub> Powder and Its Dielectric Properties. Journal of the American Ceramic Society, 1998, 81, 2998-3000.	3.8	23
107	Low-Temperature, Single Step, Reactive Sintering of Lead Magnesium Niobate Using Mg(OH) <sub>2</sub> -Coated Nb <sub>2</sub> O <sub>5</sub> Powders. Journal of the American Ceramic Society, 2005, 88, 1435-1443.	3.8	12
108	Preparation of pyrochlore-free PMN powder by semi-wet chemical route. Materials Chemistry and Physics, 2005, 93, 231-236.	4.0	16

#	ARTICLE	IF	CITATIONS
109	Synthesis and structural characterization of some $\text{Pb}(\text{B}_{1/3}\text{Nb}_{2/3})\text{O}_3$ type materials by two-stage solid-state route. Bulletin of Materials Science, 2005, 28, 199-203.	1.7	6
110	Piezoelectric Properties of $0.2[\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})]-0.8[\text{PbTiO}_3-\text{PbZrO}_3]$ Ceramics Sintered at a Low Temperature with the Aid of $\text{Li}_2\text{O}$ . Journal of Electroceramics, 2005, 15, 119-122.	2.0	7
111	Modified chemical route to prepare $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-\text{PbTiO}_3$ ceramics. Journal of Materials Science, 2005, 40, 2599-2601.	3.7	1
112	Study of the structural and electrical properties of PMNT 68/32 ceramic prepared by a sol-gel process. Phase Transitions, 2005, 78, 329-336.	1.3	2
113	Low-temperature single-step reactive sintering methods for lead magnesium niobate. Materials Letters, 2005, 59, 3262-3266.	2.6	6
114	Effects of Anneal on the Microstructure of PMN-32%PT Polycrystal. Ferroelectrics, 2006, 332, 105-110.	0.6	1
115	Application of Ag-Ceramic Composite Electrodes to Low Firing Piezoelectric Multilayer Ceramic Actuators. , 2006, , .		0
116	Effects of grain size on the dielectric properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-30\text{mol}\% \text{PbTiO}_3$ ceramics. Journal of Applied Physics, 2007, 102, 074116.	2.5	18
117	Stabilization of Amide-Based Complexes of Niobium and Tantalum Using Malonates as Chelating Ligands: Precursor Chemistry and Thin Film Deposition. Chemistry of Materials, 2007, 19, 6077-6087.	6.7	45
118	Formation of $0.65 \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \cdot 0.35 \text{PbTiO}_3$ Using a High-Energy Milling Process. Journal of the American Ceramic Society, 2007, 90, 29-35.	3.8	61
119	Preparation of $0.7 \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \cdot 0.3 \text{PbTiO}_3$ Thin Films Via a Polyvinylpyrrolidone-Assisted Aqueous Sol-Gel Process and Dielectric Properties. Journal of the American Ceramic Society, 2007, 90, 3632-3634.	3.8	7
120	Microstructural and electrical study of mixed phase of $\text{Pb}(\text{Ba}_{1/3}\text{Nb}_{2/3})\text{O}_3$ . Physica B: Condensed Matter, 2007, 391, 1-5.	2.7	11
121	Progress in synthesis of ferroelectric ceramic materials via high-energy mechanochemical technique. Progress in Materials Science, 2008, 53, 207-322.	32.8	293
122	Application of Ag-ceramic composite electrodes to low firing piezoelectric multilayer ceramic actuators. Journal of Electroceramics, 2008, 20, 225-229.	2.0	18
123	Effect of sintering conditions on the pyrochlore phase content in $\text{PMN} \cdot \text{PFN}$ ceramics prepared by sol-gel process. Journal of the European Ceramic Society, 2008, 28, 123-131.	5.7	14
124	Spray Pyrolysis Synthesis and Dielectric Properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ . Journal of the American Ceramic Society, 2008, 91, 2766-2768.	3.8	2
125	Effect of sintering temperature on dielectric relaxation and Raman scattering of $0.65 \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \cdot 0.35 \text{PbTiO}_3$ system. Journal of Applied Physics, 2009, 105, .	2.5	30
126	Effect of two-stage sintering on phase formation, microstructure and dielectric properties of perovskite PMN ceramics derived from a corundum $\text{Mg}_4\text{Nb}_2\text{O}_9$ precursor. Materials Chemistry and Physics, 2009, 114, 569-575.	4.0	11



#	ARTICLE	IF	CITATIONS
127	Preparation and Characterization of Relaxor Ferroelectric $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ by a Polymerizable Complex Method. Journal of the American Ceramic Society, 2009, 92, 1256-1261.	3.8	19
128	Characterization of the Amorphous Phase and the Nanosized Crystallites in High Energy Milled Lead Magnesium Niobate Powder. Journal of the American Ceramic Society, 2009, 92, 1224-1229.	3.8	9
129	PVP Mediated Crystallization of Perovskite Phase in the PMN-PT Thin Films Prepared by Sol-Gel Processing. Journal of the American Ceramic Society, 2010, 93, 686-691.	3.8	5
130	Effect of Annealing Temperature on Dielectric Relaxation and Raman Scattering of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ $\sim 0.35\text{PbTiO}_3$ System. Journal of the American Ceramic Society, 2010, 93, 2748-2754.	3.8	20
131	Crystallization of $\text{Pb}(\text{Zn,Mg})_{1/3}\text{Nb}_{2/3}\text{O}_3$ $\sim \text{PbTiO}_3$ Thin Films Via Immobilization of $\text{Pb}^{2+}$ Ions During Sol-Gel Process. Journal of the American Ceramic Society, 2010, 93, 4036-4040.	3.8	8
132	Preparation of Fine Ceramics by Soft Chemistry. Transactions of the Indian Ceramic Society, 2010, 69, 115-124.	1.0	2
133	Preparation and Properties of the Ferroelectric Materials Based on BIT. Advanced Materials Research, 0, 624, 146-149.	0.3	3
134	Dielectric Relaxation Phenomena in some Lead and Non-Lead Based Ferroelectric Relaxor Materials: Recent Advances. Solid State Phenomena, 0, 189, 233-266.	0.3	7
135	Synthesis of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ by Controlled Agglomeration of Precursor Particles. Journal of the American Ceramic Society, 2012, 95, 1858-1865.	3.8	10
136	Study of microstructural, electrical and dielectric properties of perovskite (0.7) PMN-(0.3) PT ferroelectric at different sintering temperatures. Journal of Analytical and Applied Pyrolysis, 2012, 93, 41-46.	5.5	16
137	Pyrochlore-Free Ferroelectric $0.64\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics Synthesized by the Combustion Method. Journal of the American Ceramic Society, 2014, 97, 2130-2134.	3.8	2
138	Effects of $\text{InNbO}_4$ Fabrication on Perovskite $\text{PIN} \sim \text{PMN} \sim \text{PT}$ . Journal of the American Ceramic Society, 2014, 97, 3110-3115.	3.8	8
139	Dielectric and ferroelectric properties of (100)-oriented $0.9\text{Pb}(\text{Sc}_{0.5}\text{Ta}_{0.5})\text{O}_3$ $\sim 0.1\text{PbTiO}_3$ / $0.55\text{Pb}(\text{Sc})\text{TjETQ} \sim 0.0 \text{rgBT} / \text{Overlock}$	6.1	3
140	Cubic Perovskite $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ : A Damage Tolerant, Machinable, and Thermal barrier coating material. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 74, 71-81.	1.5	33
141	Seeding effects on the mechanochemical synthesis of $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \sim 0.1\text{PbTiO}_3$ . Journal of the European Ceramic Society, 2019, 39, 1837-1845.	5.7	16
142	Preparation Method of Spherical $0.9\text{PMN}-0.1\text{PT}$ Powder. Journal of the Korean Ceramic Society, 2002, 39, 687-692.	2.3	0
144	HETEROMETALLIC ALKOXIDES AS PRECURSORS TO MULTICOMPONENT OXIDES: SOME EXAMPLES BASED ON PB-NB AND CD-NB SYSTEMS. , 1992, , 93-100.		0
145	Hydroxide route for the synthesis of lead magnesium niobate powder. Journal of Materials Science Letters, 1993, 12, 564-566.	0.5	2

#	ARTICLE	IF	CITATIONS
146	Effect of different fabrication avenues of pyrochlore ceramics toward orderâ€“disorder transitions. , 2022, , 161-179.		0
147	Dielectric Properties and Impedance Spectroscopy of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Ceramics Prepared by Ultrahigh Pressure Sintering. Journal of Materials Engineering and Performance, 0, , .	2.5	0