

Mathieu Allix

List of Publications by Year in descending order

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155
papers

4,876
citations

94269

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63
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173
docs citations

173
times ranked

5025
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerable Improvement of Long-Persistent Luminescence in Germanium and Tin Substituted ZnGa ₂ O ₄ . Chemistry of Materials, 2013, 25, 1600-1606.	3.2	343
2	Updated definition of glass-ceramics. Journal of Non-Crystalline Solids, 2018, 501, 3-10.	1.5	248
3	Materials development and potential applications of transparent ceramics: A review. Materials Science and Engineering Reports, 2020, 139, 100518.	14.8	221
4	Bi ₂ ZnTiO ₆ : ϵ A Lead-Free Closed-Shell Polar Perovskite with a Calculated Ionic Polarization of 150 $\hat{1}/4$ C cm ⁻² . Chemistry of Materials, 2006, 18, 4987-4989.	3.2	182
5	Direct Coprecipitation Route to Monodisperse Dual-Functionalized Magnetic Iron Oxide Nanocrystals Without Size Selection. Small, 2008, 4, 231-239.	5.2	137
6	Thermal Expansion of Rare-Earth Pyrosilicates. Journal of the American Ceramic Society, 2013, 96, 2298-2305.	1.9	134
7	Pressureless glass crystallization of transparent yttrium aluminum garnet-based nanoceramics. Nature Communications, 2018, 9, 1175.	5.8	130
8	Sr ₂ MgMoO ₆ : $\hat{1}$: \hat{A} Structure, Phase Stability, and Cation Site Order Control of Reduction. Chemistry of Materials, 2007, 19, 1035-1043.	3.2	113
9	Engineering NIR-IIb fluorescence of Er-based lanthanide nanoparticles for through-skull targeted imaging and imaging-guided surgery of orthotopic glioma. Nano Today, 2020, 34, 100905.	6.2	100
10	Highly Transparent BaAl ₄ O ₇ Polycrystalline Ceramic Obtained by Full Crystallization from Glass. Advanced Materials, 2012, 24, 5570-5575.	11.1	94
11	Cooperative mechanisms of oxygen vacancy stabilization and migration in the isolated tetrahedral anion Scheelite structure. Nature Communications, 2018, 9, 4484.	5.8	85
12	High pressure bulk synthesis and characterization of the predicted multiferroic Bi(Fe ₁ $\hat{2}$ Cr ₁ $\hat{2}$)O ₃ . Applied Physics Letters, 2007, 90, 112909.	1.5	84
13	Diffraction techniques and vibrational spectroscopy opportunities to characterise bones. Osteoporosis International, 2009, 20, 1065-1075.	1.3	78
14	A Polar Oxide with a Large Magnetization Synthesized at Ambient Pressure. Journal of the American Chemical Society, 2005, 127, 13790-13791.	6.6	76
15	Tuneable Nanostructuring of Highly Transparent Zinc Gallogermanate Glasses and Glass-Ceramics. Advanced Optical Materials, 2014, 2, 364-372.	3.6	70
16	Long-lasting luminescent ZnGa ₂ O ₄ :Cr ³⁺ transparent glass-ceramics. Journal of Materials Chemistry C, 2014, 2, 10002-10010.	2.7	70
17	Upconversion luminescence of transparent Er ³⁺ -doped chalcogenide glass-ceramics. Optical Materials, 2009, 31, 760-764.	1.7	68
18	White light and multicolor emission tuning in triply doped Yb ³⁺ /Tm ³⁺ /Er ³⁺ novel fluoro-phosphate transparent glass-ceramics. Journal of Materials Chemistry C, 2014, 2, 5046-5056.	2.7	66

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19	Characterization and Properties of Novel Gallium-Doped Calcium Phosphate Ceramics. <i>Inorganic Chemistry</i> , 2011, 50, 8252-8260.	1.9	60
20	Topological, Geometric, and Chemical Order in Materials: Insights from Solid-State NMR. <i>Accounts of Chemical Research</i> , 2013, 46, 1975-1984.	7.6	60
21	Perfectly Transparent Sr ₃ Al ₂ O ₆ Polycrystalline Ceramic Elaborated from Glass Crystallization. <i>Chemistry of Materials</i> , 2013, 25, 4017-4024.	3.2	60
22	Optical and Mechanical Properties of Glasses and Glass-Ceramics Based on the Ge-Ga-Se System. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3566-3570.	1.9	59
23	Evidence of Nanometric-Sized Phosphate Clusters in Bioactive Glasses As Revealed by Solid-State ³¹ P NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2283-2288.	1.5	59
24	Original Synthetic Route To Obtain a SrAl ₂ O ₄ Phosphor by the Molten Salt Method: Insights into the Reaction Mechanism and Enhancement of the Persistent Luminescence. <i>Inorganic Chemistry</i> , 2015, 54, 9896-9907.	1.9	59
25	Structural Investigations of Glass Ceramics in the Ga ₂ S ₃ -GeS ₂ -CsCl System. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14574-14580.	1.2	55
26	Crystallization of Y ₂ O ₃ -Al ₂ O ₃ Rich Glasses: Synthesis of YAG Glass-Ceramics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20499-20506.	1.5	52
27	Evidence of network demixing in GeS ₂ -Ga ₂ S ₃ chalcogenide glasses: A phase transformation study. <i>Journal of Solid State Chemistry</i> , 2011, 184, 584-588.	1.4	51
28	Synthesis of high surface area CuMn ₂ O ₄ by supercritical anti-solvent precipitation for the oxidation of CO at ambient temperature. <i>Catalysis Science and Technology</i> , 2011, 1, 740.	2.1	50
29	Transparency through Structural Disorder: A New Concept for Innovative Transparent Ceramics. <i>Chemistry of Materials</i> , 2015, 27, 508-514.	3.2	50
30	Scalable and Formable Tellurite-Based Transparent Ceramics for Near Infrared Applications. <i>Advanced Optical Materials</i> , 2016, 4, 1482-1486.	3.6	46
31	New Nanocrystalline Cu/MnO _x Catalysts Prepared from Supercritical Antisolvent Precipitation. <i>ChemCatChem</i> , 2009, 1, 247-251.	1.8	44
32	Crystal structure, microwave dielectric properties and AC conductivity of B-cation deficient hexagonal perovskites La ₅ MxTi ₄ O ₁₅ (x = 0.5, 1; M = Zn, Mg, Ga, Al). <i>Journal of Materials Chemistry</i> , 2006, 16, 1038.	6.7	43
33	Photochromism and Persistent Luminescence in Ni-Doped ZnGa ₂ O ₄ Transparent Glass-Ceramics: Toward Optical Memory Applications. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10110-10120.	1.5	41
34	Internal Barrier Layer Capacitance Effect in Hexagonal Perovskite Ba ₄ YMn ₃ O _{11.5} Ceramics. <i>Chemistry of Materials</i> , 2006, 18, 5130-5136.	3.2	40
35	Persistent Luminescence of ZnGa ₂ O ₄ :Cr ³⁺ Transparent Glass Ceramics: Effects of Excitation Wavelength and Excitation Power. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5114-5120.	1.0	40
36	A Pure Bismuth Site Polar Perovskite Synthesized at Ambient Pressure. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8785-8789.	7.2	38

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37	Controlling the Size of Nanodomains in Calcium Aluminosilicate Glasses. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18935-18945.	1.5	37
38	New Transparent Glass-Ceramics Based on the Crystallization of α -Anti-glass Spherulites in the $\text{Bi}_2\text{O}_3\text{-Nb}_2\text{O}_5\text{-TeO}_2$ System. <i>Crystal Growth and Design</i> , 2015, 15, 5086-5096.	1.4	37
39	Oxygen Vacancy Ordering Phenomena in the Mixed-Conducting Hexagonal Perovskite $\text{Ba}_7\text{Y}_2\text{Mn}_3\text{Ti}_2\text{O}_{20}$. <i>Chemistry of Materials</i> , 2007, 19, 2884-2893.	3.2	36
40	Structure Resolution of $\text{Ba}_5\text{Al}_3\text{F}_{19}$ and Investigation of Fluorine Ion Dynamics by Synchrotron Powder Diffraction, Variable-Temperature Solid-State NMR, and Quantum Computations. <i>Inorganic Chemistry</i> , 2011, 50, 2644-2653.	1.9	35
41	New 8-Layer Twinned Hexagonal Perovskite Microwave Dielectric Ceramics $\text{Ba}_8\text{Ga}_4\text{Ta}_{4+0.6}\text{O}_{24}$. <i>Chemistry of Materials</i> , 2011, 23, 5058-5067.	3.2	34
42	Ytterbium-doped oxyfluoride nano-glass-ceramic fibers for laser cooling. <i>Optical Materials Express</i> , 2017, 7, 1980.	1.6	34
43	Revealing the substitution mechanism in $\text{Eu}^{3+}:\text{CaMoO}_4$ and $\text{Eu}^{3+},\text{Na}^{+}:\text{CaMoO}_4$ phosphors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12830-12840.	2.7	34
44	Persistent energy transfer in $\text{ZGO}:\text{Cr}^{3+},\text{Yb}^{3+}$: a new strategy to design nano glass-ceramics featuring deep red and near infrared persistent luminescence. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19458-19468.	1.3	34
45	$\text{Ba}_8\text{CoNb}_6\text{O}_{24}$: A d0 Dielectric Oxide Host Containing Ordered d7 Cation Layers 1.88 nm Apart. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7733-7736.	7.2	33
46	First transparent oxide ion conducting ceramics synthesized by full crystallization from glass. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5276-5289.	5.2	33
47	Synthesis and Structure Resolution of RbLaF_4 . <i>Inorganic Chemistry</i> , 2012, 51, 2272-2282.	1.9	32
48	Synthesis and Structure Determination of $\text{CaSi}_{1/3}\text{B}_{2/3}\text{O}_{8/3}$: A New Calcium Borosilicate. <i>Inorganic Chemistry</i> , 2013, 52, 4250-4258.	1.9	31
49	Second-order optical nonlinearity and ionic conductivity of nanocrystalline $\text{GeS}_2\text{-Ga}_2\text{S}_3\text{-LiI}$ glass-ceramics with improved thermo-mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3780.	1.3	29
50	New 10-Layer Hexagonal Perovskites: Relationship between Cation and Vacancy Ordering and Microwave Dielectric Loss. <i>Chemistry of Materials</i> , 2006, 18, 6227-6238.	3.2	28
51	Highly Conducting Redox Stable Pyrochlore Oxides. <i>Chemistry of Materials</i> , 2008, 20, 6911-6916.	3.2	28
52	Frustration of Magnetic and Ferroelectric Long-Range Order in $\text{Bi}_2\text{Mn}_4/3\text{Ni}_{2/3}\text{O}_6$. <i>Journal of the American Chemical Society</i> , 2009, 131, 14000-14017.	6.6	27
53	Properties, structure and crystallization study of germano-gallate glasses in the $\text{Ga}_2\text{O}_3\text{-GeO}_2\text{-BaO-K}_2\text{O}$ system. <i>Journal of Non-Crystalline Solids</i> , 2019, 514, 98-107.	1.5	26
54	Controlled crystallization in $\text{Ge}-(\text{Sb}/\text{Ga})-(\text{S}/\text{Se})\text{-MX}$ glasses for infrared applications. <i>Journal of the Ceramic Society of Japan</i> , 2008, 116, 1079-1082.	0.5	25

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55	Long- and Short-Range Constraints for the Structure Determination of Layered Silicates with Stacking Disorder. <i>Chemistry of Materials</i> , 2014, 26, 6994-7008.	3.2	24
56	Transparent polycrystalline SrREGa ₃ O ₇ melilite ceramics: potential phosphors for tuneable solid state lighting. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3238-3247.	2.7	24
57	Local Disorder and Tunable Luminescence in Sr _{1-x} /2Al _{2x} /Si _x O ₄ (0.2 at%) Tj ETQq. 1 0.784314 rgB	1.3	23
58	Behaviour of ruthenium dioxide particles in borosilicate glasses and melts. <i>Journal of Nuclear Materials</i> , 2009, 389, 450-457.	1.3	23
59	Light yield sensitization by X-ray irradiation of the BaAl ₄ O ₇ :Eu ²⁺ ceramic scintillator obtained by full crystallization of glass. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24824-24829.	1.3	23
60	Development of Melilite-type Oxide Ion Conductors. <i>Chemical Record</i> , 2020, 20, 1117-1128.	2.9	23
61	First ZnGa ₂ O ₄ transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4934-4941.	2.8	23
62	Three-Coordinate Metal Centers in Extended Transition Metal Oxides. <i>Journal of the American Chemical Society</i> , 2006, 128, 12606-12607.	6.6	22
63	Revealing Structural Detail in the High Temperature La ₂ Si ₂ O ₇ –Y ₂ Si ₂ O ₇ Phase Diagram by Synchrotron Powder Diffraction and Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21523-21535.	1.5	21
64	Localization of Oxygen Interstitials in CeSrGa ₃ O ₇ Melilite. <i>Inorganic Chemistry</i> , 2014, 53, 11589-11597.	1.9	21
65	Homogeneity of peraluminous SiO ₂ –B ₂ O ₃ –Al ₂ O ₃ –Na ₂ O–CaO–Nd ₂ O ₃ glasses: Effect of neodymium content. <i>Journal of Non-Crystalline Solids</i> , 2014, 405, 55-62.	1.5	21
66	Copper oxides for energy storage application: Novel pulse alternating current synthesis. <i>Materials Science in Semiconductor Processing</i> , 2018, 73, 111-116.	1.9	21
67	Interstitial Oxide Ion Migration Mechanism in Aluminate Melilite La _{1-x} Ca _x Al ₃ O _{7+0.5x} Ceramics Synthesized by Glass Crystallization. <i>ACS Applied Energy Materials</i> , 2019, 2, 2878-2888.	2.5	21
68	Glass forming regions, structure and properties of lanthanum barium germanate and gallate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 571, 121064.	1.5	21
69	Synthesis and Structure Determination of the High Temperature Form of La ₂ WO ₆ . <i>Crystal Growth and Design</i> , 2011, 11, 5105-5112.	1.4	20
70	Structure and viscosity of phase-separated BaO–SiO ₂ glasses. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1982-1993.	1.9	20
71	Modulated structure determination and ion transport mechanism of oxide-ion conductor CeNbO ₄ . <i>Nature Communications</i> , 2020, 11, 4751.	5.8	20
72	Phosphorus speciation in dicalcium silicate phases: Application to the basic oxygen furnace (BOF) slag. <i>Cement and Concrete Research</i> , 2015, 73, 207-214.	4.6	19

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73	A comprehensive study of the glass/translucent anti-glass/transparent ceramic structural ordering in the Bi ₂ O ₃ Nb ₂ O ₅ TeO ₂ system. <i>Acta Materialia</i> , 2020, 189, 73-84.	3.8	19
74	Crystallization and Glass-Ceramics. <i>Springer Handbooks</i> , 2019, , 113-167.	0.3	19
75	Synthesis and characterization of chloro-sulphide glass-ceramics containing neodymium(III) ions. <i>Materials Research Bulletin</i> , 2010, 45, 448-455.	2.7	18
76	Deconvolution method of ²⁹ Si MAS NMR spectra applied to homogeneous and phase separated lanthanum aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 503-504, 352-365.	1.5	18
77	La ₂ Ga ₃ O _{7.5} : A Metastable Ternary Melilite with a Super-Excess of Interstitial Oxide Ions Synthesized by Direct Crystallization of the Melt. <i>Chemistry of Materials</i> , 2020, 32, 9016-9025.	3.2	18
78	Pulsed laser deposited amorphous chalcogenide and alumino-silicate thin films and their multilayered structures for photonic applications. <i>Thin Solid Films</i> , 2013, 539, 226-232.	0.8	17
79	Synthesis of periodic mesoporous organosilicas with incorporated aluminium. <i>Journal of Materials Chemistry</i> , 2005, 15, 4728.	6.7	16
80	Magnetism and Phase Formation in the Candidate Dilute Magnetic Semiconductor System In _{2-x} Cr _x O ₃ : Bulk Materials are Dilute Paramagnets. <i>Advanced Functional Materials</i> , 2008, 18, 777-784.	7.8	16
81	Oriented nucleation and crystal growth in SrO-Al ₂ O ₃ -SiO ₂ tectosilicate glasses. <i>CrystEngComm</i> , 2018, 20, 3455-3466.	1.3	16
82	Structural elucidation of $\hat{\Gamma}^2$ -(Y,Sc) ₂ Si ₂ O ₇ : combined use of ⁸⁹ Y MAS NMR and powder diffraction. <i>Journal of Applied Crystallography</i> , 2011, 44, 846-852.	1.9	15
83	Crystal Structures and Photoluminescence across the La ₂ Si ₂ O ₇ -Ho ₂ Si ₂ O ₇ System. <i>Inorganic Chemistry</i> , 2013, 52, 13469-13479.	1.9	15
84	Enhanced Transparency through Second Phase Crystallization in BaAl ₄ O ₇ Scintillating Ceramics. <i>Crystal Growth and Design</i> , 2016, 16, 386-395.	1.4	15
85	Modular Construction of Oxide Structures—Compositional Control of Transition Metal Coordination Environments. <i>Journal of the American Chemical Society</i> , 2008, 130, 7570-7583.	6.6	14
86	Defect Structure, Phase Separation, and Electrical Properties of Nonstoichiometric Tetragonal Tungsten Bronze Ba _{0.5} TaO ₃ . <i>Inorganic Chemistry</i> , 2013, 52, 13244-13252.	1.9	14
87	Combined Approach for the Structural Characterization of Alkali Fluoroscandates: Solid-State NMR, Powder X-ray Diffraction, and Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2018, 57, 1184-1195.	1.9	14
88	Glass-forming ability and ZrO ₂ saturation limits in the magnesium aluminosilicate system. <i>Ceramics International</i> , 2022, 48, 8433-8439.	2.3	14
89	Extension of the α -1201-Family to Strontium-Rich Chromite and Ferrite, Bi _{0.4} Sr _{2.5} Cr _{1.1} O _{4.9} and Bi _{0.4} Sr _{2.5} Fe _{1.1} O ₅ . <i>Journal of Solid State Chemistry</i> , 2002, 167, 48-58.	1.4	13
90	New eight-layer twinned hexagonal perovskite microwave dielectric ceramic Ba ₈ NiNb ₆ O ₂₄ . <i>Journal of the American Ceramic Society</i> , 2017, 100, 1212-1220.	1.9	13

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91	Hexagonal $\text{Sr}_{1-x/2}\text{Al}_{2x}\text{Si}_x\text{O}_4$:Eu ²⁺ ,Dy ³⁺ transparent ceramics with tuneable persistent luminescence properties. Dalton Transactions, 2020, 49, 16849-16859.		13
92	Laser-Driven Precipitation and Modification of Silver Nanoparticles in Soda Lime Glass Matrix Monitored by On-line Extinction Measurements. Plasmonics, 2012, 7, 279-286.	1.8	12
93	Aliovalent-substitution defect chemistry, crystalline-glassy phase separation and ionic conductivity in fersnoite $\text{Ba}_2\text{TiSi}_2\text{O}_8$ -based materials. Solid State Ionics, 2015, 278, 157-165.	1.3	12
94	Structure determination of $\text{Ba}_5\text{AlF}_{13}$ by coupling electron, synchrotron and neutron powder diffraction, solid-state NMR and ab initio calculations. Dalton Transactions, 2016, 45, 15565-15574.	1.6	12
95	First 14-Layer Twinned Hexagonal Perovskite $\text{Ba}_{14}\text{Mn}_{1.75}\text{Ta}_{10.5}\text{O}_{42}$: Atomic-Scale Imaging of Cation Ordering. Chemistry of Materials, 2016, 28, 4686-4696.	3.2	12
96	Synthesis of $\text{Co}_3\text{O}_4/\text{CoOOH}$ via electrochemical dispersion using a pulse alternating current method for lithium-ion batteries and supercapacitors. Solid State Sciences, 2018, 86, 53-59.	1.5	12
97	On the Evaluation of the Average Crystalline Size and Surface Area of Platinum Catalyst Nanoparticles. Physica Status Solidi (B): Basic Research, 2018, 255, 1800240.	0.7	12
98	Transmission electron microscopy for research of new layered oxides: Study of the Bi-Sr-Fe-O system. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1669-1685.	0.6	11
99	Image analysis study of crystallization in two glass compositions of nuclear interest. Journal of Non-Crystalline Solids, 2013, 379, 112-122.	1.5	11
100	Amorphization by Mechanical Milling for Making IR Transparent Glass-Ceramics. Journal of the American Ceramic Society, 2016, 99, 1573-1578.	1.9	11
101	Thermal expansion coefficient of carbon-supported Pt nanoparticles: <i>in situ</i> X-ray diffraction study. Physica Status Solidi (B): Basic Research, 2017, 254, 1600695.	0.7	11
102	Innovative lithium storage enhancement in cation-deficient anatase via layered oxide hydrothermal transformation. Journal of Materials Chemistry A, 2018, 6, 24232-24244.	5.2	11
103	Non-Isothermal Decomposition as Efficient and Simple Synthesis Method of NiO/C Nanoparticles for Asymmetric Supercapacitors. Nanomaterials, 2021, 11, 187.	1.9	11
104	Cation ordering in the fluorite-like transparent conductors $\text{In}_{4+x}\text{Sn}_{3-2x}\text{Sb}_x\text{O}_{12}$ and $\text{In}_6\text{TeO}_{12}$. Journal of Solid State Chemistry, 2007, 180, 1002-1010.	1.4	10
105	Similar behaviors of sulfide and selenide-based chalcogenide glasses to form glass ceramics. , 2010, , .		10
106	Oxygen-deficiency-induced 6H-polymorph of hexagonal perovskite $\text{Ba}_4\text{YMn}_3\text{O}_{11.5}$: synthesis, structure and properties. Journal of Materials Chemistry, 2012, 22, 8103.	6.7	10
107	8-Layer Shifted Hexagonal Perovskite $\text{Ba}_8\text{MnNb}_6\text{O}_{24}$: Long-Range Ordering of High-Spin d^5 Mn ²⁺ Layers and Electronic Structure. Inorganic Chemistry, 2018, 57, 5732-5742.	1.9	10
108	Ba_8CoNb_6 <i>in situ</i> Ta <i>in situ</i> O_{24} Eight-Layer Shifted Hexagonal Perovskite Ceramics with Spontaneous Ta ⁵⁺ Ordering and Near-Zero α . Inorganic Chemistry, 2019, 58, 10974-10982.	1.9	10

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109	A new 2212-type stair like structure: Bi ₁₄ Sr ₂₁ Fe ₁₂ O ₆₁ , m=5 member of the generic [Bi ₂ Sr ₃ Fe ₂ O ₉] _m [Bi ₄ Sr ₆ Fe ₂ O ₁₆] family. Journal of Solid State Chemistry, 2004, 177, 3187-3196.	1.4	8
110	Composition dependence of the structural chemistry and magnetism of Ca _{2.5} Sr _{0.5} (Ga,Co) _{1+x} Mn ₂ ·xO ₈ . Journal of Solid State Chemistry, 2006, 179, 775-792.	1.4	8
111	BaGa ₄ O ₇ , a new A ₃ BC ₁₀ O ₂₀ crystalline phase: synthesis, structural determination and luminescence properties. CrystEngComm, 2015, 17, 6127-6135.	1.3	8
112	New KNbTeO ₆ transparent tellurate ceramics. Journal of the European Ceramic Society, 2020, 40, 4164-4170.	2.8	8
113	Crystallization kinetics of Al ₂ O ₃ -26mol%Y ₂ O ₃ glass and full crystallized transparent Y ₃ Al ₅ O ₁₂ -based nanoceramic. Journal of the European Ceramic Society, 2021, 41, 1557-1563.	2.8	8
114	Rapid solidification synthesis of novel (La,Y) ₂ (Zr,Ti) ₂ O ₇ pyrochlore-based glass-ceramics for the immobilization of high-level wastes. Journal of the European Ceramic Society, 2021, 41, 7253-7260.	2.8	8
115	The role of fluorine in high quantum yield oxyfluoride glasses and glass-ceramics. Journal of Alloys and Compounds, 2022, 900, 163512.	2.8	8
116	Crystallization Kinetics of Apatite and Powellite in a Borosilicate Glass Under Thermal Gradient Conditions. Physics Procedia, 2013, 48, 3-9.	1.2	7
117	Highly Transparent Fluorotellurite Glass-Ceramics: Structural Investigations and Luminescence Properties. Inorganic Chemistry, 2019, 58, 16387-16401.	1.9	7
118	X-ray Diffraction, NMR Studies, and DFT Calculations of the Room and High Temperature Structures of Rubidium Cryolite, Rb ₃ AlF ₆ . Inorganic Chemistry, 2020, 59, 6308-6318.	1.9	7
119	Combustion of silane-nitrous oxide-argon mixtures: Analysis of laminar flame propagation and condensed products. Proceedings of the Combustion Institute, 2021, 38, 2235-2245.	2.4	7
120	Glass formation and devitrification behavior of alkali (Li, Na) aluminosilicate melts containing TiO ₂ . Journal of Non-Crystalline Solids, 2022, 582, 121448.	1.5	7
121	Pulsed laser deposited aluminosilicate thin films and amorphous chalcogenide/aluminosilicate structures. Thin Solid Films, 2010, 519, 1341-1345.	0.8	6
122	Control of selective silicate glass coloration by gold metallic nanoparticles: structural investigation, growth mechanisms, and plasmon resonance modelization. Gold Bulletin, 2013, 46, 243-255.	1.1	6
123	Stimulated structural changes of Se in nanolayered composite films. Materials Chemistry and Physics, 2014, 143, 889-893.	2.0	6
124	Influence of Alteration Solutions on the Chemical Durability of the Zr ⁴⁺ Glass-Ceramic: Structural Investigation. International Journal of Applied Ceramic Technology, 2015, 12, 811-822.	1.1	6
125	Second harmonic generation in germanotellurite bulk glass-ceramics. Journal of the American Ceramic Society, 2017, 100, 1412-1423.	1.9	6
126	Emergence of A-Site Cation Order in the Small Rare-Earth Melilites Sr _x RE _{1-x} Ga ₃ O ₇ (RE = Dy, Lu, Y). Inorganic Chemistry, 2021, 60, 12339-12354.	1.9	6

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127	Nonstoichiometric Control of Tunnel-Filling Order, Thermal Expansion, and Dielectric Relaxation in Tetragonal Tungsten Bronzes Ba _{0.5} TaO ₃ . Inorganic Chemistry, 2015, 54, 8978-8986.	1.9	5
128	Oxo- and Oxofluoroaluminates in the RbAl ₂ O ₃ System: Synthesis and Structural Characterization. Inorganic Chemistry, 2018, 57, 13702-13712.	1.9	5
129	Non-isothermal decomposition of platinum acetylacetonate as a cost-efficient and Size-Controlled Synthesis of Pt/C nanoparticles. Catalysis Communications, 2018, 117, 14-18.	1.6	5
130	Combining solid state NMR, powder X-ray diffraction, and DFT calculations for CsSc ₃ F ₁₀ structure determination. Journal of Alloys and Compounds, 2019, 787, 1349-1355.	2.8	5
131	Persistent luminescence in ZnGa ₂ O ₄ :Cr ³⁺ transparent glass-ceramics. Proceedings of SPIE, 2017, , .	0.8	4
132	Network hydration, ordering and composition interplay of chemical vapor deposited amorphous silica films from tetraethyl orthosilicate. Journal of Materials Research and Technology, 2021, 13, 534-547.	2.6	4
133	8H ¹⁰ H Stacking Periodicity Control in Twinned Hexagonal Perovskite Dielectrics. Inorganic Chemistry, 2018, 57, 4117-4124.	1.9	3
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