

Oxide pyrochlores – A review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Pyrochlores. V. Thermoanalytic, X-ray, neutron, infrared, and dielectric studies of $A_2Ti_2O_7$ titanates. Canadian Journal of Chemistry, 1969, 47, 971-990.	0.6	179
3	Synthesis and solid state studies on $Mb_2Sb_2O_7$ and $(Mn_{1-x}Cd_x)_2Sb_2O_7$ pyrochlores. Journal of Solid State Chemistry, 1984, 52, 124-129.	1.4	31
4	Systematics of the pyrochlore structure type, ideal $A_2B_2X_6Y$. Journal of Solid State Chemistry, 1984, 53, 120-129.	1.4	270
5	Electrical and catalytic properties of some oxides with the fluorite or pyrochlore structure. Materials Research Bulletin, 1984, 19, 1149-1156.	2.7	36
6	Crystal Chemical Constraints on the Formation of Actinide Pyrochlores. Materials Research Society Symposia Proceedings, 1984, 44, 641.	0.1	38
7	New Pyrochlore $Pb_{2II}[In_{0.5}Sb_{1.5}]O_6$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1985, 529, 229-234.	0.6	10
8	Structure and properties of $Y_5Mo_2O_{12}$ and $Gd_5Mo_2O_{12}$: Mixed valence oxides with structurally equivalent molybdenum atoms. Journal of Solid State Chemistry, 1985, 60, 332-342.	1.4	56
9	Fast ion conduction in the defect pyrochlore system $KB_xW_{2-x}O_6$ (B = Al, Ti and Ta). Solid State Ionics, 1985, 15, 15-19.	1.3	24
11	The new pyrochlores $Pb_2(MO \cdot 5Sb \cdot 5)O_6 \cdot 5$ (M = Al, Sc, Cr, Fe, Ga, Rh). Materials Research Bulletin, 1985, 20, 1359-1365.	2.7	30
12	Radwaste Immobilization by Structural Modification?the Crystallochemical Properties of SYNROC, a Titanate Ceramic. Angewandte Chemie International Edition in English, 1985, 24, 357-365.	4.4	28
13	Immobilisierung von radioaktivem Abfall im Festkörper durch strukturelle Modifizierung der Matrix • Kristallchemie von Synroc, einer Titanat-Keramik. Angewandte Chemie, 1985, 97, 369-376.	1.6	8
14	An alternative approach to non-molecular crystal structures with emphasis on the arrangements of cations. , 1985, , 77-144.		221
16	Structure and proton mobility in the defect pyrochlore $(H_2O)_xH_2Ta_2O_6$. Solid State Communications, 1986, 59, 569-573.	0.9	15
17	Spin-glass-like behavior in $Y_2Mo_2O_7$, a concentrated, crystalline system with negligible apparent disorder. Solid State Communications, 1986, 59, 895-897.	0.9	126
18	Thermoelectric power of $RE_2Mo_2O_7$ pyrochlores. Journal of Physics and Chemistry of Solids, 1986, 47, 395-400.	1.9	8
19	The electronic structure of $Bi_{2-x}Gd_xRu_2O_7$ and RuO_2 : A study by electron spectroscopy. Journal of Solid State Chemistry, 1986, 62, 360-370.	1.4	149
20	Magnetic properties and magnetic ordering in the Rare Earth Molybdenum(IV) Pyrochlores: $R_2Mo_2O_7$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1986, 540, 177-190.	0.6	49
22	New pyrochlores of the type $(CdBi) (M,M')_2O_7$. Materials Research Bulletin, 1986, 21, 727-732.	2.7	13

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23	Effects of high pressure on some lanthanide ruthenium oxide systems: Synthesis of the perovskite phase PrRuO ₃ . <i>Materials Research Bulletin</i> , 1986, 21, 797-802.	2.7	11
25	Synthesis and structure of some interesting oxides of bismuth. <i>Journal of Chemical Sciences</i> , 1986, 96, 449-458.	0.7	10
26	Crystal chemical incorporation of high level waste species in aluminotitanate-based ceramics: Valence, location, radiation damage, and hydrothermal durability. <i>Journal of Materials Research</i> , 1987, 2, 387-414.	1.2	86
28	Thermoelectric properties of the ceramic system Pb ₂ ^x Gd _x Cu ₂ /3Nb ₄ /3O ₇ ^y . <i>Journal of Materials Science Letters</i> , 1987, 6, 447-448.	0.5	0
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30	Structure and properties of La ₂ Mo ₂ O ₇ : A quasi-two-dimensional metallic oxide with strong Mo ⁵⁺ -Mo bonds. <i>Journal of Solid State Chemistry</i> , 1987, 66, 136-143.	1.4	43
31	Synthesis and crystal structures of the manganese antimonates Mn ₂ Sb ₂ O ₇ and MnSb ₂ O ₆ . <i>Journal of Solid State Chemistry</i> , 1987, 66, 171-180.	1.4	44
32	Pyrochlore solid solutions (La _x Y _{1-x}) ₂ Mo ₂ O ₇ , x = 0.0 to 0.5. Spin-glass-like behavior. <i>Journal of Solid State Chemistry</i> , 1987, 67, 248-253.	1.4	29
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34	Alpha-decay damage in minerals of the pyrochlore group. <i>Physics and Chemistry of Minerals</i> , 1988, 16, 2.	0.3	177
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36	Ferromagnetic R ₂ Mn ₂ O ₇ pyrochlores (R = Dy, Lu, Y). <i>Journal of Solid State Chemistry</i> , 1988, 72, 24-30.	1.4	104
37	Novel defect pyrochlores ABi ₂ B ₅ O ₁₆ (A = Cs, Rb; B = Ta, Nb). <i>Journal of Solid State Chemistry</i> , 1988, 75, 188-196.	1.4	18
38	Fast ion conductors: future trends. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1988, 1, 171-191.	1.7	83
39	New layered perovskites: ABiNb ₂ O ₇ and APb ₂ Nb ₃ O ₁₀ (A=Rb OR Cs). <i>Materials Research Bulletin</i> , 1988, 23, 837-842.	2.7	58
40	Synthesis and ionic conductivity of mixed oxides (H ₂ ONH ₄)MTeO _{6.5} (M = Cr, W). <i>Materials Research Bulletin</i> , 1988, 23, 1107-1117.	2.7	1
41	Intrinsic Fast Oxygen Ionic Conductivity in the Gd ₂ (ZrxTi _{1-x}) ₂ O ₇ , and Y ₂ (ZrxTi _{1-x}) ₂ O ₇ , Pyrochlore Systems. <i>Materials Research Society Symposia Proceedings</i> , 1988, 135, 149.	0.1	37
42	Alpha-Decay Damage and Annealing Effects in Natural Pyrochlores: Analogues for Long-Term Radiation Damage Effects in Actinide, Pyrochlore, Structure Types. <i>Materials Research Society Symposia Proceedings</i> , 1988, 127, 253.	0.1	6

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44	Lattice energy and polymorphism of fluorite-related rare earth-tantalum double oxides. Solid State Ionics, 1989, 35, 275-279.	1.3	8
45	Magnetic and electrical properties of $R_2Mo_2O_7$ pyrochlore compounds. Journal of Solid State Chemistry, 1989, 83, 178-187.	1.4	90
46	System $Bi_{2-x}Pb_xPt_{2-x}Ru_xO_7$: A pyrochlore series with a metal-insulator transition. Journal of Solid State Chemistry, 1989, 79, 34-45.	1.4	10
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49	Short-range ordering in a three-dimensionally frustrated magnet, $Tb_2Mo_2O_7$, by wide- and small-angle neutron diffraction. Journal of Applied Physics, 1990, 67, 5967-5969.	1.1	14
50	New pyrochlores of the type $(RM)(BiPb)O_7$ ($R =$ rare earth; $M = Ba, Sr, Ca$). Materials Research Bulletin, 1990, 25, 107-111.	2.7	5
51	An incoherent inelastic neutron scattering study of NH_4TaWO_6 . Applied Physics A: Solids and Surfaces, 1990, 51, 226-230.	1.4	6
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55	Structures and Stabilities of Trivalent and Tetravalent Rare Earth Ions in Sevenfold and Eightfold Coordination in Fluorite-Related Complex Oxides. Materials Research Society Symposia Proceedings, 1991, 257, 275.	0.1	6
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57	Effect of counter cations on electrocatalytic activity of oxide pyrochlores towards oxygen reduction/evolution in alkaline medium: an electrochemical and spectroscopic study. Journal of Power Sources, 1991, 35, 163-173.	4.0	39
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59	Expanded lattice ruthenium pyrochlore oxide catalysts II. Catalyst surface investigations by electron microscopy, X-ray photoelectron spectroscopy, and temperature-programmed reduction and oxidation. Journal of Catalysis, 1991, 127, 421-444.	3.1	21
60	Novel defect pyrochlores $MO_5Ti_{0.5}(NbTe)O_6$: Preparation and structural characterization. Materials Research Bulletin, 1991, 26, 789-795.	2.7	5
61	Defect pyrochlore structure $A_2B_2X_6$: A general approach to the coordination polyhedra around the metal ions. Journal of Materials Science, 1991, 26, 5163-5166.	1.7	9

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63	NON STOICHIOMETRY IN PEROVSKITE-TYPE OXIDES. INFLUENCE OF THE ELECTRONIC CONFIGURATION ON FORMATION OF EXTENDED DEFECTS. , 1991, , 25-37.		0
64	Neutron-diffraction study of magnetic ordering in the pyrochlore series R ₂ Mo ₂ O ₇ (R=Nd,Tb,Y). Physical Review B, 1991, 43, 5682-5691.	1.1	86
65	Transition-Metal Oxide Electrocatalysts for O ₂ Electrodes: The Pyrochlores. , 1992, , 93-106.		8
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75	High pressure synthesis of pyrochlore-type manganese vanadate and related compositions. Materials Research Bulletin, 1992, 27, 939-943.	2.7	16
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81	Chapter 107 Rare earth pyrochlores. Fundamental Theories of Physics, 1993, 16, 225-248.	0.1	81
82	Structure refinement and calculated X-ray powder data for the pyrochlore Y ₂ Sn ₂ O ₇ derived from powder neutron data. Powder Diffraction, 1993, 8, 245-248.	0.4	11
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84	Oxidative stability of bismuth-ruthenium pyrochlore Bi ₂ Ru ₂ O ₇ ·y. Journal of Electroanalytical Chemistry, 1994, 368, 235-239.	1.9	21
85	Thermal expansion behaviour of some rare earth oxide pyrochlores. Materials Research Bulletin, 1994, 29, 759-766.	2.7	110
86	Interfacial mechanisms controlling phase formation in sol-gel derived lead zirconate titanate thin films. Bulletin of Materials Science, 1994, 17, 1005-1014.	0.8	5
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95	Oxygen evolution and reduction on iridium oxide compounds. Journal of Power Sources, 1995, 56, 51-60.	4.0	46
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97	Recent work on the ionic and electronic properties of materials with the pyrochlore and related structures. Ionics, 1995, 1, 188-192.	1.2	5

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114	Consequences of Fluorine Atom Bridging and Increasing Metal Atom Spin Density for the Low Temperature Magnetism of the Series. $\text{Na}_3[\text{FeF}_6]$, $[\text{NH}_4]_3[\text{FeF}_6]$, $[\text{Co}(\text{NH}_3)_6][\text{FeF}_6]$ and $[\text{NH}_4\text{CoFeF}_6]$. Materials Research Society Symposia Proceedings, 1996, 453, 405.	0.1	0
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116	Synthesis and phase stability of $\text{Ln}_2\text{MnTa}_{1+x}\text{O}_{7+\hat{\nu}}$ (Ln = rare earth and yttrium) compounds. Materials Chemistry and Physics, 1996, 46, 43-49.	2.0	10

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124	Frustrated pyrochlore oxides, Y ₂ Mn ₂ O ₇ , Ho ₂ Mn ₂ O ₇ , and Yb ₂ Mn ₂ O ₇ : Bulk magnetism and magnetic microstructure. Physical Review B, 1996, 54, 7189-7200.	1.1	93
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141	Stability and mixed ionic electronic conduction in Gd ₂ (Ti _{1-x} Mox) ₂ O ₇ under anodic conditions. <i>Solid State Ionics</i> , 1997, 94, 75-83.	1.3	87
142	Ln _{1-x} SrxCoO ₃ (Ln = Sm, Dy) for the electrode of solid oxide fuel cells. <i>Solid State Ionics</i> , 1997, 100, 283-288.	1.3	203
143	Aqueous leachability of lanthanide and plutonium titanates. <i>Journal of Nuclear Materials</i> , 1997, 240, 112-117.	1.3	31
144	Analysis and Structural Determination of Nd-Substituted Zirconolite-4M. <i>Journal of Solid State Chemistry</i> , 1997, 129, 346-359.	1.4	76
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1526	Pyrochlore structure and spectroscopic studies of titanate ceramics. A comparative investigation on $SmDyTi_2O_7$ and $YDyTi_2O_7$ solid solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 198, 188-197.	2.0	15
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1530	Preparation and thermophysical properties of plasma sprayed lanthanum zirconate. <i>Materials Chemistry and Physics</i> , 2018, 204, 67-71.	2.0	13
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1534	Vibrational and elastic properties of Ln ₂ Sn ₂ O ₇ (Ln = La, Sm, Gd, Dy, Ho, Er, Yb, or Lu). <i>Journal of Physics and Chemistry of Solids</i> , 2018, 115, 1-5.	1.9	7
1535	First principle calculation of helium in La ₂ Zr ₂ O ₇ : Effects on structural, electronic properties and radiation tolerance. <i>Journal of Nuclear Materials</i> , 2018, 500, 72-80.	1.3	18
1536	Synthesis and characterization of dense Gd ₂ Ti ₂ O ₇ pyrochlore thin films deposited using RF magnetron sputtering. <i>Solid State Ionics</i> , 2018, 314, 36-40.	1.3	3
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1546	First-principles study of plutonium and cerium solubility in Gd ₂ Sn ₂ O ₇ pyrochlore. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 436, 211-216.	0.6	4
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1551	Metastable Bi ₂ Zr ₂ O ₇ with Pyrochlore-like Structure: Stabilization, Oxygen Ion Conductivity, and Catalytic Properties. <i>Inorganic Chemistry</i> , 2018, 57, 13667-13678.	1.9	46
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1553	The Gd ₂ Zr ₂ O ₇ -Based Materials for Thermal Barrier Coatings. <i>Powder Metallurgy and Metal Ceramics</i> , 2018, 57, 301-315.	0.4	18
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1555	Correlating Structure and Luminescence Properties of Undoped and Eu ³⁺ -Doped La ₂ Hf ₂ O ₇ Nanoparticles Prepared with Different Coprecipitating pH Values through Experimental and Theoretical Studies. <i>Inorganic Chemistry</i> , 2018, 57, 11815-11830.	1.9	61
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1562	Phase evolution, microstructure and chemical stability of Ca ₁ -Zr ₁ -Gd ₂ Ti ₂ O ₇ (0.0 ≤ x ≤ 1.0) system for immobilizing nuclear waste. <i>Ceramics International</i> , 2018, 44, 13572-13579.	2.3	17
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#	ARTICLE	IF	CITATIONS
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1731	Bi ³⁺ -Sensitized La ₂ Zr ₂ O ₇ :Er ³⁺ Transparent Ceramics with Efficient Up/Down-Conversion Luminescence Properties for Photonic Applications. <i>Journal of Physical Chemistry C</i> , 2020, 124, 913-920.	1.5	18
1732	Effect of precursor pH value on the structure and electrical properties of Bi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ thin films. <i>Ceramics International</i> , 2020, 46, 8700-8705.	2.3	6
1733	Preparation, thermophysical performances of Ca ₃ Ln ₃ Ti ₇ Ta ₂ O _{26.5} (Ln=Yb and Y) oxides for thermal barrier coating applications. <i>Ceramics International</i> , 2020, 46, 6531-6536.	2.3	1
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1735	Synthesis of pyrochlore-borosilicate glass-ceramics for immobilization of high-level nuclear waste. <i>Ceramics International</i> , 2020, 46, 6085-6094.	2.3	35
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1737	Synthesis and crystal structure of fluorite-type La _{2.4} Zr _{1.2} Ta _{0.4} O ₇ : A precursor oxide for low temperature formation of garnet-type Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ . <i>Solid State Ionics</i> , 2020, 357, 115460.	1.3	9
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1739	Acidic Oxygen Evolution Reaction Activity-Stability Relationships in Ru-Based Pyrochlores. <i>ACS Catalysis</i> , 2020, 10, 12182-12196.	5.5	111
1740	Effect of Ce ⁴⁺ -substitution at A and B sites of Nd ₂ Zr ₂ O ₇ : A study for plutonium incorporation in pyrochlores. <i>Journal of Nuclear Materials</i> , 2020, 539, 152342.	1.3	26
1741	Conductivity, structure, and thermodynamics of Y ₂ Ti ₂ O ₇ -Y ₃ NbO ₇ solid solutions. <i>Dalton Transactions</i> , 2020, 49, 10839-10850.	1.6	5
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1744	Order-disorder behavior at thin film oxide interfaces. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100870.	5.6	5
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1751	Pyrochlore nanocrystals as versatile quasi-single-source precursors to lithium conducting garnets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17405-17410.	5.2	12
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1767	Lattice dynamics and high-pressure properties of K ⁺ ionic conducting system KNbTeO ₆ . <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2517-2524.	1.2	1
1768	Tricolor Ho^{3+} Photoluminescence Enhancement from Site Symmetry Breakdown in Pyrochlore Ho^{3+} Lu^{3+} TaO_7 . <i>Physical Review Letters</i> , 2020, 125, 245701.	2.9	8
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1770	Synthesis and study of nanosized gadolinium oxide modified by zirconium oxide. <i>Solid State Sciences</i> , 2020, 110, 106457.	1.5	0
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1777	Structure, thermal properties and hot corrosion behaviors of Gd ₂ Hf ₂ O ₇ as a potential thermal barrier coating material. <i>Ceramics International</i> , 2020, 46, 21367-21377.	2.3	16
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1779	Fabrication of Lu ₂ Ti ₂ O ₇ -Lu ₃ NbO ₇ solid solution transparent ceramics by spark plasma sintering and their electrical conductivities. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4589-4594.	2.8	6
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1781	Structure and properties of pure and zirconium substituted nanocrystalline samarium titanate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 254, 114512.	1.7	5
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1787	Emerging scenario on displacive cubic bismuth pyrochlores (Bi,M)MNO ₇ · \hat{r} (M = transition metal, N = Nb,) <i>Tj ETQq1 1 0.784314 rgBT / DO International</i> , 2020, 46, 14346-14360.	2.3	11
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1822	Liquid phase synthesis and sintering of Y ₃ NbO ₇ . <i>Ceramics International</i> , 2020, 46, 26361-26367.	2.3	3
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1830	Investigation of Griffiths-like phase at low temperature in a new magnetocaloric compound, $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mpace width="0.25em" /} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle l \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ <i>Journal of Physics and Chemistry of Solids</i> , 2021, 140, 100605.	1.9	4
1831	Wasp "Waisted loop and spin frustration in Dy ²⁺ xEuTi ₂ O ₇ pyrochlore. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 518, 167364.	1.0	7
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1837	Microstructure and impedance spectroscopy of high density holmium hafnate (Ho ₂ Hf ₂ O ₇) from nanoparticulate compacts. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 265, 114989.	1.7	3
1838	Concurrence of ferroelectric, dielectric and magnetic behaviour in Tb ₂ Ti ₂ O ₇ pyrochlore. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 389, 127085.	0.9	4

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1840	Implication of aliovalent cation substitution on structural and thermodynamic stability of Gd ₂ Ti ₂ O ₇ : Experimental and theoretical investigations. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157781.	2.8	7
1841	Defect fluorite type phase in anion deficient rare earth zirconates, RE ₃ Zr _{0.5} Nb _{0.5} O _{6.75} (RE = Nd, Sm,) <i>Tj ETQq0 0.0 rgBT /Overlock 10</i>	1.4	2
1842	Metal-insulator transition in lead yttrium ruthenate. <i>Materials Chemistry and Physics</i> , 2021, 260, 124172.	2.0	1
1843	Performance change and aqueous durability analysis of Nd-doped Gd ₂ Zr ₂ O ₇ nanocrystalline ceramics. <i>Journal of Alloys and Compounds</i> , 2021, 860, 157918.	2.8	3
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1848	White light emission from co-doped La ₂ Hf ₂ O ₇ nanoparticles with suppressed host â ⁺ Eu ³⁺ energy transfer<i>via</i> a U ⁶⁺ co-dopant. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3830-3842.	3.0	10
1849	Solid oxide proton conductors beyond perovskites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18836-18856.	5.2	33
1850	Preparation of (La _{0.2} Nd _{0.2} Sm _{0.2} Gd _{0.2} Er _{0.2}) ₂ Zr ₂ O ₇ High-entropy Transparent Ceramics by Vacuum Sintering. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 418.	0.6	2
1851	X-ray diffraction line profile analysis of Ce substituted Gd ₂ Zr ₂ O ₇ system (Gd _{2-x} Ce _x) Zr ₂ O ₇ (x = 0,2), ., .		2
1852	Magnetic susceptibility and NEXAFS spectra of Fe, Mg-codoped bismuth niobate pyrochlore. <i>Letters on Materials</i> , 2021, 11, 67-72.	0.2	3
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1854	Synthesis and optical bandgap study of Sm ₂ Zr ₂ O ₇ oxides. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	1
1855	Synthesis of Materials Under High Pressure. <i>Indian Institute of Metals Series</i> , 2021, , 153-195.	0.2	0
1856	Impedance spectroscopy of Bi _{1.6} Mg _{0.24} Cu _{0.56} Ta _{1.6} O _{7.2} . <i>Letters on Materials</i> , 2021, 11, 11-16.	0.2	2

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1861	Lattice Disorder and Oxygen Migration Pathways in Pyrochlore and Defect-Fluorite Oxides. <i>Chemistry of Materials</i> , 2021, 33, 1407-1415.	3.2	24
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1865	New simultaneously doped pyrochlore compounds $(\text{Ca}_{1-x}\text{Ce}_x)_2(\text{Zr}_x\text{Nb}_{1-x})_2\text{O}_7$ negative temperature coefficient ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10339-10348.	1.1	6
1866	Thermal Expansion, XPS Spectra, and Structural and Electrical Properties of a New $\text{Bi}_2\text{NiTa}_2\text{O}_9$ Pyrochlore. <i>Inorganic Chemistry</i> , 2021, 60, 4924-4934.	1.9	36
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1868	Frustrated magnetism in fluoride and chalcogenide pyrochlore lattice materials. <i>Physical Review Materials</i> , 2021, 5, .	0.9	12
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1871	Structural complexity of Y_6BO_{12} fluorite-related ternary oxides. <i>MRS Advances</i> , 2021, 6, 107-111.	0.5	1
1872	Co-precipitation synthesis and characterization of rare-earth pyrochlore Gadolinium stannate; A novel electrocatalyst for the determination of furazolidone in water samples. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210368.	0.5	14
1873	Recent Progress in Advanced Electrocatalyst Design for Acidic Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021, 33, e2004243.	11.1	284
1874	Electronic nature, optical and mechanical properties of MPtO ($\text{M} = \text{Sc}, \text{Y}$ and La) pyrochlores: A DFT study. <i>Physica B: Condensed Matter</i> , 2021, 607, 412862.	1.3	3

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1876	Heat capacity of samarium titanates and phase equilibria of Sm ₂ O ₃ -TiO ₂ system. Journal of Alloys and Compounds, 2021, 860, 158429.	2.8	4
1877	Phase evolution in M _{1-x} Pu _x O ₂ (0.0 ≤ x ≤ 0.6) (M = Zr, Th) as potential inert matrix fuel system under reducing and oxidizing conditions. Journal of Nuclear Materials, 2021, 547, 152800.	1.3	4
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1888	Corrosion resistance of nonstoichiometric gadolinium zirconate coatings against CaO-MgO-Al ₂ O ₃ -SiO ₂ silicate. Journal of the European Ceramic Society, 2021, 41, 3687-3695.	2.8	7
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1890	Theoretical investigation of intrinsic point defects and the oxygen migration behavior in rare earth hafnates. Ceramics International, 2021, 47, 15023-15029.	2.3	2
1891	A systematic study of lanthanide titanates (A ₂ Ti ₂ O ₇) chemical durability: corrosion mechanisms and control parameters. Corrosion Science, 2021, 185, 109394.	3.0	13
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1895	Thermodynamic Functions of Terbium Hafnate. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 861-867.	0.3	1
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1898	Impurity defect absorption and photochromic effect in KNbWO ₆ . <i>Journal of Solid State Chemistry</i> , 2021, 298, 122099.	1.4	5
1899	Spin-Orbit-Entangled Electronic Phases in 4 <i>d</i> and 5 <i>d</i> Transition-Metal Compounds. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 062001.	0.7	75
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1901	Synthesis and Structure of Oxygen Deficient Lead-Techetium Pyrochlore, the First Example of a Valence V Technetium Oxide. <i>Frontiers in Chemistry</i> , 2021, 9, 706269.	1.8	2
1902	Chloride Reduction of Mn ³⁺ in Mild Hydrothermal Synthesis of a Charge Ordered Defect Pyrochlore, CsMn ₂ +Mn ₃ +F ₆ , a Canted Antiferromagnet with a Hard Ferromagnetic Component. <i>Journal of the American Chemical Society</i> , 2021, 143, 11554-11567.	6.6	12
1903	High performance Ni-catalysts supported on rare-earth zirconates (La and Y) for hydrogen production through ethanol steam reforming. Characterization and assay. <i>Catalysis Today</i> , 2022, 394-396, 524-538.	2.2	9
1904	A prediction model of thermal expansion coefficient for cubic inorganic crystals by the bond valence model. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122111.	1.4	13
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1906	Site-Selective Oxygen Vacancy Formation Derived from the Characteristic Crystal Structures of Sn ⁴⁺ Nb Complex Oxides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17117-17124.	1.5	10
1907	Heat Capacity and Thermal Expansion of Terbium Hafnate. <i>Inorganic Materials</i> , 2021, 57, 710-713.	0.2	3
1908	Heat Capacity and Thermal Expansion of Lanthanum Hafnate. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 1017-1020.	0.3	4
1909	Dielectric performance of pyrochlore-type Bi ₂ MgNb _{2-x} Ta _x O ₉ ceramics: The effects of tantalum doping. <i>Ceramics International</i> , 2021, 47, 19424-19433.	2.3	12
1910	Disorder driven asymmetry and singular red emission in doped Lu ₂ Hf ₂ O ₇ nanocrystals with no charge compensating defects. <i>Journal of Luminescence</i> , 2021, 235, 118057.	1.5	3

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1912	Novel Ni-Doped Bismuth-Magnesium Tantalate Pyrochlores: Structural and Electrical Properties, Thermal Expansion, X-ray Photoelectron Spectroscopy, and Near-Edge X-ray Absorption Fine Structure Spectra. <i>ACS Omega</i> , 2021, 6, 23262-23273.	1.6	18
1913	Investigation of mechanical and thermodynamic properties of La ₂ Zr ₂ O ₇ pyrochlore. <i>International Journal of Energy Research</i> , 0, .	2.2	1
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1916	Evaluating the effects of structural disorder on the magnetic properties of Nd ₂ O ₇ . <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
1917	Dielectric properties of bismuth-containing pyrochlores: A comparative analysis. <i>Journal of Advanced Dielectrics</i> , 2022, 12, .	1.5	2
1918	Modeling Disorder in Pyrochlores and Other Anion-Deficient Fluorite Structural Derivative Oxides. <i>Frontiers in Chemistry</i> , 2021, 9, 712543.	1.8	6
1919	Phase evolution and mechanical properties of novel nanocrystalline Y ₂ (TiZrHfMoV) ₂ O ₇ high entropy pyrochlore. <i>Journal of Materials Science and Technology</i> , 2021, 82, 214-226.	5.6	23
1920	High-entropy transparent ceramics: Review of potential candidates and recently studied cases. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 644-672.	1.1	20
1921	Novel pyrochlore-structured bismuth iron antimonates: Structural, impedance and electrochemical studies. <i>Results in Physics</i> , 2021, 27, 104542.	2.0	11
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1923	Thermophysical properties of a novel high entropy hafnate ceramic. <i>Journal of Materials Science and Technology</i> , 2021, 85, 152-157.	5.6	34
1924	New class of high-entropy defect fluorite oxides RE ₂ (Ce _{0.2} Zr _{0.2} Hf _{0.2} Sn _{0.2} Ti _{0.2}) ₂ O ₇ (RE = Y, Ho, Er, or Tj). <i>ETQq1</i> 1 0.784314 rgBT /Ov 6080-6086.	2.8	49
1925	Thermophysical performances of (La _{1/6} Nd _{1/6} Yb _{1/6} Y _{1/6} Sm _{1/6} Lu _{1/6}) ₂ Ce ₂ O ₇ high-entropy ceramics for thermal barrier coating applications. <i>Ceramics International</i> , 2022, 48, 1512-1521.	2.3	21
1926	A Comparison of Order-Disorder in Several Families of Cubic Oxides. <i>Frontiers in Chemistry</i> , 2021, 9, 719169.	1.8	5
1927	Recent advances in nanostructured Sn~Ln mixed-metal oxides as sunlight-activated nanophotocatalyst for high-efficient removal of environmental pollutants. <i>Ceramics International</i> , 2021, 47, 23702-23724.	2.3	60
1928	Unraveling the Principles of Lattice Disorder Degree of Bi ₂ B ₂ O ₇ (B = Sn, Ti, Zr) Compounds on Activating Gas Phase O ₂ for Soot Combustion. <i>ACS Catalysis</i> , 2021, 11, 12112-12122.	5.5	25

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1930	Applications and recent advances of rare earth in solid oxide fuel cells. <i>Journal of Rare Earths</i> , 2022, 40, 1668-1681.	2.5	35
1931	Pyrochlore-Supergroup Minerals Nomenclature: An Update. <i>Frontiers in Chemistry</i> , 2021, 9, 713368.	1.8	10
1932	Review on transparent polycrystalline ceramics. <i>Journal of the Korean Ceramic Society</i> , 2022, 59, 1-24.	1.1	9
1933	Reply to comment on "Dependence on charge transfer band and emission properties by the crystal chemistry of A- and B-site cations in Eu ³⁺ -doped quaternary pyrochlore-type red phosphors, Ca(RE) _{1-x} (M)NbO ₇ (RE=Y, Gd; M=Ti, Sn)". <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23724-23727.	1.1	0
1934	Effect of Mo substitution on the structure and electrical properties of Gd ₂ Ru ₂ O ₇ pyrochlore. <i>Physica B: Condensed Matter</i> , 2021, 619, 413227.	1.3	0
1935	Average and local ordering of Yb ₂ (Ti ₂ -Yb) ₂ O ₇ stuffed pyrochlores: The development of a robust structural model. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122412.	1.4	8
1936	Rare-earth pyrocobaltates (R = Ce, Yb): Effective spin-antiferromagnetic insulators with st. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 535, 168048.	1.0	3
1937	Thermal properties of solid solutions Ln ₂ Zr ₃ HfO ₂ (Ln = Dy, Ho, Er, Tm, Yb, Lu) at 300–1300 ÅK. <i>Ceramics International</i> , 2021, 47, 28004-28007.	2.3	4
1938	Pyrochlores: oxygen-rich moieties as ceramic fillers in uplifting the antifouling property and dye removal capacity of polymeric membranes. <i>Separation and Purification Technology</i> , 2021, 272, 118946.	3.9	15
1939	Fabrication and properties of transparent Tb ₂ Ti ₂ O ₇ magneto-optical ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7208-7214.	2.8	10
1940	Preparation and characterization of the Cu, Fe co-doped Bi ₂ Ti ₂ O ₇ /EG-g-C ₃ N ₄ material for organic model pollutants removal under direct sun light irradiation. <i>Materials Research Bulletin</i> , 2021, 143, 111439.	2.7	11
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1942	Photoluminescence and piezoelectric behaviour of Yb ₂ Sn ₂ O ₇ pyrochlore based multifunctional smart advanced materials and the influence of Lu ³⁺ and Eu ³⁺ . <i>Optical Materials</i> , 2021, 121, 111605.	1.7	3
1943	Thermal expansion of bismuth magnesium tantalate and niobate pyrochlores. <i>Ceramics International</i> , 2021, 47, 30099-30105.	2.3	15
1944	Pyrochlore glass-ceramics for the immobilization of molybdenum-99 production wastes: Demonstrating scalability and flexibility to waste stream variance. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7269-7281.	2.8	12
1945	Preparation of non-stoichiometric Gd _{2+x} Zr ₂ O _{7+3x/2} transparent ceramics by vacuum sintering. <i>Optical Materials</i> , 2021, 121, 111575.	1.7	2
1946	Glass-like thermal conductivity in mass-disordered high-entropy (Y,Yb) ₂ (Ti, Zr, Hf) ₂ O ₇ for thermal barrier material. <i>Materials and Design</i> , 2021, 210, 110059.	3.3	27

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1949	Spectroscopic characterization of iron bismuth (antimony/tantalum) pyrochlores synthesized by the molten salts method. Ceramics International, 2021, 47, 31983-31989.	2.3	4
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1951	Synthesis, Characterization and Crystal Chemistry of Uranium and Cerium Doped Yttrium Titanate Pyrochlore: A Potential Waste Immobilization Matrix. Journal of Nuclear Materials, 2021, 556, 153191.	1.3	10
1952	Phase evolution in [Nd _{1-x} Lu _x] ₂ Zr ₂ O ₇ +Î system in oxidizing and reducing conditions: A nuclear waste form. Journal of Nuclear Materials, 2021, 556, 153208.	1.3	6
1953	High-entropy (Y _{0.2} Gd _{0.2} Dy _{0.2} Er _{0.2} Yb _{0.2}) ₂ Hf ₂ O ₇ ceramic: A promising thermal barrier coating material. Journal of Materials Science and Technology, 2022, 101, 199-204.	5.6	37
1955	Domain-wall freezing in Cd ₂ Nb ₂ O ₇ pyrochlore single crystal. Materials Research Bulletin, 2022, 145, 111548.	2.7	3
1956	Transparent Ceramics: Materials, Processing, Properties and Applications. , 2021, , 399-423.		3
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1960	Natural and Synthetic Minerals â€” Matrices (Forms) for Actinide Waste Immobilization. , 2008, , 193-207.		3
1961	Metallic and Superconducting Materials with Frustrated Lattices. Springer Series in Solid-state Sciences, 2011, , 587-627.	0.3	3
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1963	Sintering behavior and thermal conductivity of Y ₂ O ₃ fully stabilized HfO ₂ ceramics. Rare Metals, 2021, 40, 1255-1266.	3.6	17
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1967	Excitation dependent site-specific luminescence and structure-optical property correlation of Lu ₂ Sn ₂ O ₇ :Eu ³⁺ nanoparticles. <i>Optical Materials</i> , 2020, 109, 110357.	1.7	8
1968	Catalytic Aspects of Fuel Cells: Overview and Insights into Solid Oxide Fuel Cells. <i>RSC Energy and Environment Series</i> , 2020, , 459-494.	0.2	1
1969	Molecular dynamics simulation of low-energy recoil events in titanate pyrochlores. <i>RSC Advances</i> , 2017, 7, 35403-35410.	1.7	6
1970	Neutron scattering studies of spin ices and spin liquids. <i>Annale Th�matique De La Soci�t� Fran�saise De La Neutronique</i> , 2014, 13, 04001.	0.2	7
1971	Lifshitz metal-insulator transition induced by the all-in/all-out magnetic order in the pyrochlore oxide Cd ₂ Os ₂ O ₇ . <i>APL Materials</i> , 2015, 3, 041501.	2.2	33
1972	The oxygen positional parameter in pyrochlores and its dependence on disorder. , 0, .		11
1973	Evidence for undoped Weyl semimetal charge transport in Y ₂ Ir ₂ O ₇ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 02LT01.	0.7	14
1974	Emergence of weak pyrochlore phase and signature of field induced spin ice ground state in Dy ₂ Ir ₂ O ₇ ; χ = 0, 0.15, 0.3. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 365804.	0.7	5
1975	Carrier generation in a p -type oxide semiconductor: χ = 0.9	0.9	31
1976	Giant reversible magnetocaloric effect in the pyrochlore Er ₂ O ₇ due to a cooperative two-sublattice ferromagnetic order. <i>Physical Review Materials</i> , 2017, 1, .	0.9	16
1977	Electronic properties across metal-insulator transition in \hat{I}^2 -pyrochlore-type CsW ₂ O ₆ epitaxial films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
1978	Uncorrelated Bi off-centering and the insulator-to-metal transition in ruthenium A ₂ Ru ₂ O ₇ pyrochlores. <i>Physical Review Materials</i> , 2019, 3, .	0.9	12
1979	Synthesis, characterization, and single-crystal growth of a high-entropy rare-earth pyrochlore oxide. <i>Physical Review Materials</i> , 2020, 4, .	0.9	18
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2105	Pyrochlore-Fluorite Dual-Phase High-Entropy Re ₂ (Ce _{0.2} Zr _{0.2} Hf _{0.2} Sn _{0.2} Ti _{0.2}) ₂ O ₇ (Re ₂ He ₂ O ₇ , Re = La, Nd,) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 512 Td	0.4	0
2106	Physical Properties and Radiation Tolerance of High-Entropy Pyrochlores Gd ₂ (Ti _{0.25} Zr _{0.25} Sn _{0.25} Hf _{0.25}) ₂ O ₇ and Individual Pyrochlores Gd ₂ X ₂ O ₇ (X = Ti, Zr, Sn, Hf) from First Principles Calculations. SSRN Electronic Journal, 0, , .	0.4	0
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