

JosÃ© Antonio Alonso

List of Publications by Year in descending order

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552
papers

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17405

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588
all docs

588
docs citations

588
times ranked

12525
citing authors

#	ARTICLE	IF	CITATIONS
1	A High-Performance Solid-State Na ⁺ CO ₂ Battery with Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Electrolyte. Energy and Environmental Materials, 2023, 6, .	7.3	7
2	On the magnetic structure and magnetic behaviour of the most distorted member of the series of RNiO ₃ perovskites (R= Lu). Dalton Transactions, 2022, , .	1.6	2
3	SnSe:Kx intermetallic thermoelectric polycrystals prepared by arc-melting. Journal of Materials Science, 2022, 57, 8489-8503.	1.7	6
4	Microwave-assisted synthesis of thermoelectric oxides and chalcogenides. Ceramics International, 2022, , .	2.3	3
5	Atomic Structure and Lattice Dynamics of CoSb ₃ Skutterudite-Based Thermoelectrics. Chemistry of Materials, 2022, 34, 1213-1224.	3.2	9
6	Nitridation effect on lithium iron phosphate cathode for rechargeable batteries. RSC Advances, 2022, 12, 3696-3707.	1.7	2
7	<i>In situ</i> neutron diffraction study of BaCe _{0.4} Zr _{0.4} Y _{0.2} O ₃ proton conducting perovskite: insight into the phase transition and proton transport mechanism. Journal of Materials Chemistry A, 2022, 10, 9037-9047.	5.2	3
8	The structural evolution, optical gap, and thermoelectric properties of the RbPb ₂ Br ₅ layered halide, prepared by mechanochemistry. Journal of Materials Chemistry C, 2022, 10, 6857-6865.	2.7	4
9	Probing the tunability of magnetism with external pressure in metastable $Sr_{2-x}M_{2x}O_{7-x}$ double perovskite. Physical Review B, 2022, 105, .		
10	Detailed Structural Features of the Perovskite-Related Halide RbPbI ₃ for Solar Cell Applications. Inorganic Chemistry, 2022, 61, 5502-5511.	1.9	7
11	Combining Raman spectroscopy and synchrotron X-ray diffraction to unveil the order types in A ₃ CaNb ₂ O ₉ (A= Ba, Sr) complex perovskites. Journal of Raman Spectroscopy, 2022, 53, 1333-1341.	1.2	2
12	Al-Doped SrMoO ₃ Perovskites as Promising Anode Materials in Solid Oxide Fuel Cells. Materials, 2022, 15, 3819.	1.3	3
13	BaFe _{0.875} Re _{0.125} O ₃ and BaFe _{0.75} Ta _{0.25} O ₃ as potential cathodes for solid-oxide fuel-cells: a structural study from neutron diffraction data. Zeitschrift Fur Kristallographie - Crystalline Materials, 2022, 237, 303-309.	0.4	0
14	Lower temperature of the structural transition, and thermoelectric properties in Sn-substituted GeTe. Materials Today: Proceedings, 2021, 44, 3450-3457.	0.9	5
15	Recent Advances in Perovskite-Type Oxides for Energy Conversion and Storage Applications. Advanced Energy Materials, 2021, 11, 2000459.	10.2	285
16	M = Ir ⁴⁺ , Ta ⁵⁺ -Doped SrCo _{0.95} M _{0.05} O ₃ Perovskites: Promising Solid-Oxide Fuel-Cell Cathodes. ACS Applied Energy Materials, 2021, 4, 500-509.	2.5	7
17	Defective Sr _{0.9} Mo _{0.9} O ₃ perovskites with exsolved Ni nanoparticles as high-performance composite anodes for solid-oxide fuel cells. New Journal of Chemistry, 2021, 45, 12041-12049.	1.4	3
18	Defect-free-induced Na ⁺ disordering in electrode materials. Energy and Environmental Science, 2021, 14, 3130-3140.	15.6	62

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19	How oxidation state and lattice distortion influence the oxygen evolution activity in acid of iridium double perovskites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2980-2990.	5.2	36
20	Electrocatalytic Site Activity Enhancement via Orbital Overlap in $A_{2-x}MnRuO_{7-x}$ ($A = Dy^{3+}$, Ho^{3+} , and Er^{3+}) Pyrochlore Nanostructures. <i>ACS Applied Energy Materials</i> , 2021, 4, 176-185.	2.5	8
21	Synthesis conditions impact on Sr ₁₁ Mo ₄ O ₂₃ electroceramic: crystal structure, stability and transport properties. <i>RSC Advances</i> , 2021, 11, 13814-13820.	1.7	2
22	Structural evolution, optical gap and thermoelectric properties of $CH_3NH_3SnBr_3$ hybrid perovskite, prepared by mechanochemistry. <i>Materials Advances</i> , 2021, 2, 3620-3628.	2.6	9
23	Strongly reduced lattice thermal conductivity in Sn-doped rare-earth (M) filled skutterudites $M_xCo_4Sb_{12}ySn_y$, promoted by Sb-Sn disordering and phase segregation. <i>RSC Advances</i> , 2021, 11, 26421-26431.	1.7	5
24	Metastable Materials Accessed under Moderate Pressure Conditions ($P \approx 3.5$ GPa) in a Piston-Cylinder Press. <i>Materials</i> , 2021, 14, 1946.	1.3	8
25	Enhancing the Néel temperature in $3d/5d$ $R_2NiR_3O_6$ ($R=La, Pr$ and Nd) double perovskites by reducing the R_3+ ionic radii. <i>Acta Materialia</i> , 2021, 207, 116684.	3.8	9
26	Unveiling the Structural Behavior under Pressure of Filled $M_{0.5}Co_4Sb_{12}$ ($M = K, Sr, La, Ce,$ and Yb) Thermoelectric Skutterudites. <i>Inorganic Chemistry</i> , 2021, 60, 7413-7421.	1.9	8
27	Magnetic Properties of Efficient Catalysts Based on La-Doped Ceria-Supported Nickel Nanoparticles for rWGS Reaction. Influence of Ni Loading. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100029.	2.7	9
28	Evolution from sinusoidal to collinear A-type antiferromagnetic spin-ordered magnetic phase transition in $Tb_{1-x}Pr_xMnO_3$ solid solution. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 265802.	0.7	3
29	A Monolithic Solid-State Sodium-Sulfur Battery with Al-Doped $Na_{3.4}Zr_2(Si_{0.8}P_{0.2}O_4)_3$ Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42927-42934.	4.0	20
30	Synergy of diffraction and spectroscopic techniques to unveil the crystal structure of antimonite acid. <i>Scientific Reports</i> , 2021, 11, 17763.	1.6	4
31	Influence of Polymorphism on the Magnetic Properties of Co_5TeO_8 Spinel. <i>Inorganic Chemistry</i> , 2021, 60, 13990-14001.	1.9	5
32	Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of $Cs_2AgSbCl_6$ Double Perovskite. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18918-18928.	1.8	26
33	On the lack of monoclinic distortion in the insulating regime of $EuNiO_3$ and $GdNiO_3$ perovskites by high-angular resolution synchrotron X-ray diffraction: a comparison with $YNiO_3$. <i>Dalton Transactions</i> , 2021, 50, 7085-7093.	1.6	5
34	Mechano-Chemical Synthesis, Structural Features and Optical Gap of Hybrid $CH_3NH_3CdBr_3$ Perovskite. <i>Materials</i> , 2021, 14, 6039.	1.3	2
35	On the crystal structure thermal evolution of formamidinium lead tribromide, $CH(NH_2)_2PbBr_3$. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17003-17011.	2.7	6
36	$Fe^{3+}_xCr^{3+}_{2-x}Cr^{6+}_4O_{15}$: A High-Capacity Cathode Material Synthesized Using an Ion-Exchange Chromatographic Method for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55172-55177.	4.0	1

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37	Dehydration of fructose to HMF in presence of $(\text{H}_3\text{O})_x\text{Sb}_x\text{Te}_{(2-x)}\text{O}_6$ ($x = 1, 1.1, 1.25$) in H ₂ O-MIBK. <i>Molecular Catalysis</i> , 2020, 481, 110276.	1.0	18
38	Unveiling the infrared complex dielectric function of ilmenite CdTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2020, 813, 152136.	2.8	6
39	Crystal structure features of $\text{CH}_3\text{NH}_3\text{Pb}_{1-x}\text{Br}_x$ hybrid perovskites prepared by ball milling: a route to more stable materials. <i>CrystEngComm</i> , 2020, 22, 767-775.	1.3	24
40	Divalent chromium in the octahedral positions of the novel hybrid perovskites $\text{CH}_3\text{NH}_3\text{Pb}_{1-x}\text{Cr}(\text{Br},\text{Cl})_3$ ($x = 0.25, 0.5$): Induction of narrow bands inside the bandgap. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153414.	2.8	11
41	Ni particles generated in situ from spinel structures used in ethanol steam reforming reaction. <i>Materials Today Chemistry</i> , 2020, 15, 100213.	1.7	8
42	Topotactic Oxidation of Perovskites to Novel $\text{SrMo}_{1-x}\text{M}_x\text{O}_4$ (M = Fe and Cr) Deficient Scheelite-Type Oxides. <i>Materials</i> , 2020, 13, 4441.	1.3	1
43	ErMnO_3 absorbance, reflectivity, and emissivity in the terahertz to mid-infrared from 2 to 1700 K: Carrier screening, Frenkel resonance, small polarons, and bipolarons. <i>Physical Review B</i> , 2020, 102, .	1.1	2
44	Structural Features, Anisotropic Thermal Expansion, and Thermoelectric Performance in Bulk Black Phosphorus Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 14932-14943.	1.9	12
45	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14822-14828.	5.2	44
46	A comprehensive examination of the local- and long-range structure of Sb ₆ O ₁₃ pyrochlore oxide. <i>Scientific Reports</i> , 2020, 10, 16956.	1.6	9
47	Novel cobalt-free family of $\text{SrFe}_{1-x}\text{Sc}_x\text{O}_3$ perovskite materials for cathode applications in solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2020, 44, 11702-11710.	2.2	2
48	Structure-properties relationship in the hydronium-containing pyrochlores $(\text{H}_3\text{O})_{1+p}\text{Sb}_{1+p}\text{Te}_{1-p}\text{O}_6$ with catalytic activity in the fructose dehydration reaction. <i>Dalton Transactions</i> , 2020, 49, 11657-11667.	1.6	3
49	High-Performance n-type SnSe Thermoelectric Polycrystal Prepared by Arc-Melting. <i>Cell Reports Physical Science</i> , 2020, 1, 100263.	2.8	23
50	Performance of $\text{SrCo}_{1-x}\text{Ir}_x\text{O}_3$ ($x = 0.10$ and) Tj EQq0 0 0 rgBT /Over (IT-SOFC). <i>ACS Applied Energy Materials</i> , 2020, 3, 6709-6716.	2.5	16
51	Direct Transformation of Crystalline MoO ₃ into Few-Layers MoS ₂ . <i>Materials</i> , 2020, 13, 2293.	1.3	2
52	Structural characterization and electrochemical properties of $(\text{La},\text{Sr})(\text{Al},\text{Mg})\text{O}_4$ perovskites. <i>New Journal of Chemistry</i> , 2020, 44, 11608-11614.	1.4	3
53	Magnetic properties of $\text{Sr}_{0.7}\text{R}_{0.3}\text{CoO}_3$ (R = Tb, Er and Ho) perovskites. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156121.	2.8	1
54	Experimental corroboration of the thermoelectric performance of Bi_2PdO_4 oxide and Pb-doped derivatives. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5509-5516.	2.7	6

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55	Crystal Structure Features of CsPbBr ₃ Perovskite Prepared by Mechanochemical Synthesis. ACS Omega, 2020, 5, 5931-5938.	1.6	78
56	Features of the High-Temperature Structural Evolution of GeTe Thermoelectric Probed by Neutron and Synchrotron Powder Diffraction. Metals, 2020, 10, 48.	1.0	8
57	Charge exchange recombination spectroscopy at Wendelstein 7-X. Review of Scientific Instruments, 2020, 91, 023507.	0.6	29
58	Enhanced stability in CH ₃ NH ₃ PbI ₃ hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. Scientific Reports, 2020, 10, 11228.	1.6	19
59	High thermoelectric performance of rapidly microwave-synthesized Sn _{1-x} S. Materials Advances, 2020, 1, 845-853.	2.6	8
60	Unveiling the Correlation between the Crystalline Structure of M-Filled CoSb ₃ (M = Y, K), Tj ETQq0 0 0 rgBT /Overlock 10 2020, 30, 2001651.	7.8	31
61	Correlation between Crystal Structure and Thermoelectric Properties of Sr _{1-x} Ti _{0.9} Nb _{0.1} O ₃ Ceramics. Crystals, 2020, 10, 100.	1.0	8
62	Revisiting the Crystal Structure of BaCe _{0.4} Zr _{0.4} Y _{0.2} O ₃ Proton Conducting Perovskite and Its Correlation with Transport Properties. ACS Applied Energy Materials, 2020, 3, 2881-2892.	2.5	11
63	xmlns:mml="http://www.w3.org/1998/Math/MathML" <mml:mrow> <mml:mi mathvariant="normal">N</mml:mi> <mml:msub> <mml:mi mathvariant="normal">i</mml:mi> <mml:mrow> <mml:mn>3</mml:mn> <mml:mo>^</mml:mo> <mml:mi>x</mml:mi> </mml:mrow> <mml:mi>C</mml:mi> <mml:msub> <mml:mi	1.1	9
64	Magnetism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" <mml:msup> <mml:mrow> <mml:mi>I</mml:mi> </mml:mrow> <mml:mrow> <mml:mi>I</mml:mi> </mml:mrow> </mml:math> Te</mml:mi> <mml:msub> <mml:mi	1.1	14
65	xmlns:mml="http://www.w3.org/1998/Math/MathML" <mml:mrow> <mml:mi mathvariant="normal">C</mml:mi> <mml:msub> <mml:mi mathvariant="normal">o</mml:mi> <mml:mn>3</mml:mn> </mml:msub> <mml:mi mathvariant="normal">A</mml:mi> <mml:msub> <mml:mi	1.1	3
66	Structural evolution across the metal-insulator transition of strongly distorted Lu _{1-x} Sc _x NiO ₃ perovskites (x = 0, 0.1, 0.2). Materials Research Express, 2020, 7, 126301.	0.8	0
67	Experimental Observation of Monoclinic Distortion in the Insulating Regime of SmNiO ₃ by Synchrotron X-ray Diffraction. Inorganic Chemistry, 2019, 58, 11828-11835.	1.9	14
68	Structural correlation of magneto-electric coupling in polycrystalline TbMnO ₃ at low temperature. Journal of Alloys and Compounds, 2019, 806, 510-519.	2.8	13
69	Design, Synthesis, Structure and Properties of Ba-Doped Derivatives of SrCo _{0.95} Ru _{0.05} O ₃ Perovskite as Cathode Materials for SOFCs. Materials, 2019, 12, 1957.	1.3	6
70	Aluminum dual doping and oxygen transport pathway in novel Sr ₁₁ Mo ₄ xAl _x O ₂₃ oxide-ion solid electrolytes. Solid State Ionics, 2019, 339, 115003.	1.3	4
71	Evidence of nanostructuring and reduced thermal conductivity in n-type Sb-alloyed SnSe thermoelectric polycrystals. Journal of Applied Physics, 2019, 126, .	1.1	28
72	Large reversible magnetocaloric effect in the ferromagnetic pyrochlores R ₂ Mn ₂ O ₇ (R ²⁺ = Dy, Ho, Yb). Journal of Magnetism and Magnetic Materials, 2019, 490, 165494.	1.0	4

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73	Temperature crystal and magnetic structures of the magnetoelectric material $\text{F}_x\text{e}_y\text{N}_z$	1.1	14
74	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO ₄ . NPG Asia Materials, 2019, 11, .	3.8	19
75	Dual Oxygen Defects in Layered La _{1-2x} Sr _{0.8x} BaxInO _{4+$\hat{\Gamma}$} (x = 0.2, 0.3) Oxide-Ion Conductors: A Neutron Diffraction Study. Materials, 2019, 12, 1624.	1.3	28
76	A High-Performance Monolithic Solid-State Sodium Battery with Ca ²⁺ -Doped Na ₃ Zr ₂ Si ₂ PO ₁₂ Electrolyte. Advanced Energy Materials, 2019, 9, 1901205.	10.2	174
77	Spin-phonon coupling in uniaxial anisotropic spin-glass based on Fe ₂ TiO ₅ pseudobrookite. Journal of Alloys and Compounds, 2019, 799, 563-572.	2.8	20
78	Crystal structure and second harmonic generation in Bi ₂ TeO ₅ : An X-N study from synchrotron and neutron diffraction data. Journal of Solid State Chemistry, 2019, 276, 122-127.	1.4	5
79	Water insertion and combined interstitial-vacancy oxygen conduction in the layered perovskites La _{1.2} Sr _{0.8x} BaxInO _{4+$\hat{\Gamma}$} . New Journal of Chemistry, 2019, 43, 6087-6094.	1.4	28
80	Substantial thermal conductivity reduction in mischmetal skutterudites Mm _x Co ₄ Sb ₁₂ prepared under high-pressure conditions, due to uneven distribution of the rare-earth elements. Journal of Materials Chemistry C, 2019, 7, 4124-4131.	2.7	21
81	Dynamic Disorder Restriction of Methylammonium (MA) Groups in Chloride-Doped MAPbBr ₃ Hybrid Perovskites: A Neutron Powder Diffraction Study. Chemistry - A European Journal, 2019, 25, 4496-4500.	1.7	9
82	Influence of Nanostructuring on PbTe Alloys Synthesized by Arc-Melting. Materials, 2019, 12, 3783.	1.3	9
83	Effects of Fluorine Doping on Structural and Electrochemical Properties of Li _{6.25} Ga _{0.25} La ₃ Zr ₂ O ₁₂ as Electrolytes for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2042-2049.	4.0	85
84	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH ₃ NH ₃ Pb(Br _{1-x} Cl _x) ₃ Perovskites. Crystal Growth and Design, 2019, 19, 918-924.	1.4	22
85	Design, synthesis and performance of Ba-doped derivatives of SrMo _{0.9} Fe _{0.1} O _{3-$\hat{\Gamma}$} perovskite as anode materials in SOFCs. Journal of Materiomics, 2019, 5, 280-285.	2.8	5
86	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. Advanced Energy Materials, 2019, 9, 1803158.	10.2	93
87	Structural and electrical characterization of the novel SrCo _{1-x} Ti _x O ₃ (x = 0.05, 0.1 and 0.15) perovskites: Evaluation as cathode materials in solid oxide fuel cells. Renewable Energy, 2019, 133, 205-215.	4.3	27
88	Crystal structure and phase transitions in R ₂ TeO ₆ (R = La, Pr, Nd, Tb, Ho, Er, Tm, Lu) oxides: A neutron diffraction study. Arabian Journal of Chemistry, 2019, 12, 4407-4413.	2.3	1
89	Estudio de las propiedades, estructurales, morfológicas y ópticas de nanopartículas de Cr ₂ O ₃ sintetizadas por procesos de combustión de un solo paso y diferentes combustibles. Revista Materia, 2019, 24, .	0.1	1
90	Structural and electrical properties of cobalt-doped 4H- $\text{SrMnO}_{3-\hat{\Gamma}}$ perovskites obtained by the hydrothermal method. European Physical Journal Plus, 2018, 133, 1.	1.2	0

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91	Structural evolution of a Ge-substituted SnSe thermoelectric material with low thermal conductivity. <i>Journal of Applied Crystallography</i> , 2018, 51, 337-343.	1.9	8
92	Insight into the structure and functional application of Mg-doped Na _{0.5} Bi _{0.5} TiO ₃ electrolyte for solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2018, 752, 213-219.	2.8	23
93	High-pressure synthesis and structural, transport, and magnetic properties of rutile-type Cr ₂ ReO ₆ and CrReO ₄ . <i>Physical Review B</i> , 2018, 97, .	1.1	1
94	Gérard Demazeau, 07.06.1943–03.11.2017. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2018, 73, 1-2.	0.3	0
95	New Mechanism for Ferroelectricity in the Perovskite Ca ₂ MnTi ₂ O ₆ Synthesized by Spark Plasma Sintering. <i>Journal of the American Chemical Society</i> , 2018, 140, 2214-2220.	6.6	32
96	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. <i>Nature Communications</i> , 2018, 9, 86.	5.8	40
97	Visualization of the Diffusion Pathway of Protons in (NH ₄) ₂ Si _{0.5} Ti _{0.5} P ₄ O ₁₃ as an Electrolyte for Intermediate-Temperature Fuel Cells. <i>Inorganic Chemistry</i> , 2018, 57, 676-680.	1.9	7
98	Structural and spectroscopic properties of the polar antiferromagnet N _i Mn ₂ O ₆ . <i>Physical Review B</i> , 2018, 97, .	1.1	11
99	Experimental evidence for stochastic switching of supercooled phases in NdNiO ₃ nanostructures. <i>Applied Physics Letters</i> , 2018, 112, 133103.	1.5	1
100	On the novel double perovskites A ₂ Fe(Mn _{0.5} W _{0.5})O ₆ (A= Ca, Sr, Ba). Structural evolution and magnetism from neutron diffraction data. <i>Solid State Sciences</i> , 2018, 80, 72-80.	1.5	2
101	Low thermal conductivity in La-filled cobalt antimonide skutterudites with an inhomogeneous filling factor prepared under high-pressure conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 118-126.	5.2	30
102	Large Seebeck coefficients in La ₂ NiO ₄ + δ with tuned δ values. <i>Materials Today: Proceedings</i> , 2018, 5, 10203-10210.	0.9	2
103	Facile preparation of SnSe derivatives in nanostructured polycrystalline form by arc-melting synthesis. <i>Materials Today: Proceedings</i> , 2018, 5, 10218-10226.	0.9	4
104	Nanostructured Thermoelectric Chalcogenides. , 2018, , .		3
105	Far- and mid-infrared emission and reflectivity of orthorhombic and cubic ErMnO ₃ : Polarons and bipolarons. <i>Physical Review B</i> , 2018, 98, .	1.1	2
106	Imaging the diffusion pathway of Al ³⁺ ion in NASICON-type (Al _{0.2} Zr _{0.8}) ₁₀ Tf ₅₀ solid-state Al batteries. <i>Chinese Physics B</i> , 2018, 27, 128201.	0.7	39
107	Multiferroic properties of RFe _{0.5} Co _{0.5} O ₃ with R=Tm , Er, Ho, Dy, and Tb. <i>Physical Review B</i> , 2018, 98, .	1.1	25
108	The Crystal Structure of Defect KBa ₆ Pyrochlores (B, Ba TM : Nb,W,Sb,Te) Revisited from Neutron Diffraction Data. <i>Crystals</i> , 2018, 8, 368.	1.0	7

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109	Role of lattice oxygen content and Ni geometry in the oxygen evolution activity of the Ba-Ni-O system. Journal of Power Sources, 2018, 404, 56-63.	4.0	15
110	Thermal Conductivity Reduction by Fluctuation of the Filling Fraction in Filled Cobalt Antimonide Skutterudite Thermoelectrics. ACS Applied Energy Materials, 2018, 1, 6181-6189.	2.5	15
111	Identification of spin wave resonances and crystal field levels in simple chromites RCrO ₃ (R = Pr, Sm, Tm, Yb). Physical Review B, 2018, 468, 294-303.	1.0	4
112	Cermets Ni/(Ce _{0.9} Ln _{0.1} O _{1.95}) (Ln = Gd, La, Nd and Sm) prepared by solution combustion method as catalysts for hydrogen production by partial oxidation of methane. International Journal of Hydrogen Energy, 2018, 43, 16834-16845.	3.8	7
113	Structural and electrochemical properties of LiMn _{0.6} Fe _{0.4} PO ₄ as a cathode material for flexible lithium-ion batteries and self-charging power pack. Nano Energy, 2018, 52, 510-516.	8.2	78
114	SrCo _{1-x} Ru _x O _{3-δ} (x = 0.05, 0.1, and 0.15) Perovskites As Outperforming Cathode Material in Intermediate-Temperature Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2018, 1, 4505-4513.	2.5	18
115	Low lattice thermal conductivity in arc-melted GeTe with Ge-deficient crystal structure. Applied Physics Letters, 2018, 113, .	1.5	14
116	Effect of chemical and hydrostatic pressure on the cubic pyrochlore Cd ₂ Ru ₂ O ₇ . Physical Review B, 2018, 98, .	1.1	5
117	Evolution of in Fe-doped manganites synthesized by the ball-milling method. European Physical Journal Plus, 2017, 132, 1.	1.2	5
118	New magnetic phase in the nickelate perovskite $TiNiO_3$. Physical Review B, 2017, 95, .		
119	Effect of Co substitution on the physicochemical properties of La _{0.67} Sr _{0.22} Ba _{0.11} Mn _{1-x} Co _x O ₃ compounds (0 ≤ x ≤ 0.3). Bulletin of Materials Science, 2017, 40, 79-85.	0.8	1
120	Structural origin of the enhanced ionic conductivity upon Nb doping in Sr ₁₁ Mo ₄ O ₂₃ defective double perovskite. Dalton Transactions, 2017, 46, 3934-3942.	1.6	5
121	Elucidating the diffusion pathway of protons in ammonium polyphosphate: a potential electrolyte for intermediate temperature fuel cells. Journal of Materials Chemistry A, 2017, 5, 7839-7844.	5.2	9
122	Design of new Ga-doped SrMoO ₃ perovskites performing as anode materials in SOFC. Renewable Energy, 2017, 111, 476-483.	4.3	27
123	Crystal Structure and Magnetic and Magnetocaloric Properties of Cobalt Hydroxychlorides Co ₂ (OH) ₄ Cl _x . European Journal of Inorganic Chemistry, 2017, 2017, 2289-2294.	1.0	0
124	Influence of magnesium doping the structural and magnetocaloric properties of manganites oxide prepared by sol-gel method. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	0
125	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO ₃ . Inorganic Chemistry, 2017, 56, 8187-8194.	1.9	5
126	Design of Sr _{0.7} R _{0.3} CoO _{3-δ} (R = Tb and Er) Perovskites Performing as Cathode Materials in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F3019-F3027.	1.3	3

#	ARTICLE	IF	CITATIONS
127	Influence of Doping and Nanostructuring on n-Type Bi ₂ (Te _{0.8} Se _{0.2}) ₃ Alloys Synthesized by Arc Melting. <i>Nanoscale Research Letters</i> , 2017, 12, 47.	3.1	14
128	Ionic conductivity enhancement in Ti-doped Sr ₁₁ Mo ₄ O ₂₃ defective double perovskites. <i>RSC Advances</i> , 2017, 7, 16163-16172.	1.7	4
129	Synthesis, structural characterization and magnetic properties of the series of double perovskites Ba _{1+x} La ¹⁺ _{1-x} MnSbO ₆ with 0.1 ≤ x ≤ 0.7. <i>Journal of Alloys and Compounds</i> , 2017, 704, 776-787.	2.8	6
130	Structural and magnetic characterization of the double perovskites R ₂ NiRuO ₆ (R = Pr, Er): A neutron diffraction study. <i>Acta Materialia</i> , 2017, 126, 114-123.	3.8	22
131	High-pressure synthesis and structural characterization of Na _{1-x} K _x MgH ₃ perovskite hydrides. <i>Journal of Alloys and Compounds</i> , 2017, 729, 914-920.	2.8	8
132	Design of Yb ³⁺ optical bandwidths by crystallographic modification of disordered calcium niobium gallium laser garnets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11481-11495.	2.7	26
133	Evaluation of LaNi _{0.6} Mo _{0.4} O ₃ (M = Fe, Co) cathodes in LSGM-electrolyte-supported solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27334-27342.	3.8	13
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137	Enhanced magnetoresistance in CaCu ₃ (Mn _{4-x} R _x)O ₁₂ (x = 0, 0.1, 0.2) complex perovskites prepared at moderate pressures. <i>Journal of Alloys and Compounds</i> , 2017, 696, 73-78.	2.8	3
138	Structural effects of LaNiO ₃ as electrocatalyst for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 363-371.	10.8	69
139	Extra-low thermal conductivity in unfilled CoSb ₃ skutterudite synthesized under high-pressure conditions. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	22
140	Potassium Disorder in the Defect Pyrochlore KSbTeO ₆ : A Neutron Diffraction Study. <i>Crystals</i> , 2017, 7, 24.	1.0	7
141	Synthesis of CuO powders using different fuels for selective surfaces. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C498-C498.	0.0	0
142	Giant reversible magnetocaloric effect in the pyrochlore Er_2O_7 due to a cooperative two-sublattice ferromagnetic order. <i>Physical Review Materials</i> , 2017, 1, .	0.9	16
143	In situ characterization of energy materials by neutron diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C129-C129.	0.0	0
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158	Electronic structure, local magnetism, and spin-orbit effects of Ir(IV)-, Ir(V)-, and Ir(VI)-based compounds. <i>Physical Review B</i> , 2015, 91, .	1.1	88
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541	Study of the defect pyrochlores $A(\text{SbTe})\text{O}_6$ ($A=\text{K, Rb, Cs, Tl}$). <i>Journal of Materials Science</i> , 1988, 23, 4103-4107.	1.7	9
542	Preparation and x-ray powder diffraction study of the pyrochlores $\text{CdLn}(\text{TiSb})\text{O}_7$ ($\text{Ln} = \text{Nd, Gd, Yb}$) and $\text{Na}_{0.5}\text{Ln}_{1.5}(\text{TiSb})\text{O}_7$ ($\text{Ln} = \text{Nd, Sm, Gd, Dy, Yb}$). <i>Inorganica Chimica Acta</i> , 1987, 140, 145-146.	1.2	16
543	Alternation of $\text{Ta}^{5+}\text{-O}$ and $\text{Te}^{4+}\text{-O}$ layers in a three-dimensional array: Crystal structure of $\text{Ta}_2\text{Te}_2\text{O}_9$. <i>Journal of Solid State Chemistry</i> , 1987, 69, 36-42.	1.4	17
544	A new kind of B cations 1 : 3 ordering in cubic perovskites: The oxides $\text{Ba}(\text{M}_{0.25}\text{Sb}_{0.75})\text{O}_3$ ($\text{M} = \text{Li, Na}$). <i>Materials Research Bulletin</i> , 1987, 22, 69-74.	2.7	32
545	Preparation and study of the new oxides $\text{Ln}_2\text{Te}_4\text{O}_{11}$ ($\text{Ln} = \text{Ce, Pr, Tb}$). <i>Inorganica Chimica Acta</i> , 1986, 111, 197-199.	1.2	18
546	Preparation and crystal data of the New Pyrochlores $\text{Pb}_2[\text{M}_{1.5}\text{Te}_{0.5}]\text{O}_{6.5}$ ($\text{M} = \text{Ti, Zr, Sn, Hf}$). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1986, 537, 213-218.	0.6	7
547	The new pyrochlores $\text{Pb}_2(\text{MSb})\text{O}_{6.5}$ ($\text{M} = \text{Ti, Zr, Sn, Hf}$). <i>Journal of Materials Science Letters</i> , 1986, 5, 675-677.	0.5	32
548	Synthesis and characterisation of new mixed oxides of antimony and tellurium. <i>Journal of the Chemical Society Dalton Transactions</i> , 1985, , 2225.	1.1	14
549	Synthesis and crystal structure of the layer compound $\text{Sb}_3\text{TeO}_6\text{Cl}$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1985, , 1633-1635.	1.1	15
550	Nanostructured State-of-the-Art Thermoelectric Materials Prepared by Straight-Forward Arc-Melting Method. , 0, , .		2
551	Structural Phase Transitions of Hybrid Perovskites $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($\text{X}=\text{Br, Cl}$) from Synchrotron and Neutron Diffraction Data. , 0, , .		1
552	Structural, electrical characterization and oxygen-diffusion paths in $\text{LaSrGa}_{1-x}\text{Mg}_x\text{O}_{4-\delta}$ ($x = 0.0\text{--}0.2$) layered perovskites: an impedance spectroscopy and neutron diffraction study. <i>New Journal of Chemistry</i> , 0, , .	1.4	3