

Jos Antonio Alonso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

525
papers

13,264
citations

56
h-index

91
g-index

588
ext. papers

14,936
ext. citations

4.6
avg, IF

6.43
L-index

#	Paper	IF	Citations
525	Atomic Structure and Lattice Dynamics of CoSb ₃ Skutterudite-Based Thermoelectrics. <i>Chemistry of Materials</i> , 2022 , 34, 1213-1224	9.6	2
524	Nitridation effect on lithium iron phosphate cathode for rechargeable batteries.. <i>RSC Advances</i> , 2022 , 12, 3696-3707	3.7	0
523	Al-Doped SrMoO ₃ Perovskites as Promising Anode Materials in Solid Oxide Fuel Cells. <i>Materials</i> , 2022 , 15, 3819	3.5	
522	FeCrCrO: 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	9.5	
521	Metastable Materials Accessed under Moderate Pressure Conditions (P ≤ 5 GPa) in a Piston-Cylinder Press. <i>Materials</i> , 2021 , 14,	3.5	2
520	Enhancing the Néel temperature in 3d/5d R ₂ NiR ₂ O ₆ (R=La, Pr and Nd) double perovskites by reducing the R ³⁺ ionic radii. <i>Acta Materialia</i> , 2021 , 207, 116684	8.4	0
519	Unveiling the Structural Behavior under Pressure of Filled MCoSb (M = K, Sr, La, Ce, and Yb) Thermoelectric Skutterudites. <i>Inorganic Chemistry</i> , 2021 , 60, 7413-7421	5.1	2
518	Lower temperature of the structural transition, and thermoelectric properties in Sn-substituted GeTe. <i>Materials Today: Proceedings</i> , 2021 , 44, 3450-3457	1.4	1
517	Recent Advances in Perovskite-Type Oxides for Energy Conversion and Storage Applications. <i>Advanced Energy Materials</i> , 2021 , 11, 2000459	21.8	105
516	M = Ir ⁴⁺ , Ta ⁵⁺ -Doped SrCo _{0.95} M _{0.05} O _{3-δ} Perovskites: Promising Solid-Oxide Fuel-Cell Cathodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 500-509	6.1	3
515	Defective Sr _{0.9} Mo _{0.9} O _{3-δ} Perovskites with exsolved Ni nanoparticles as high-performance composite anodes for solid-oxide fuel cells. <i>New Journal of Chemistry</i> , 2021 , 45, 12041-12049	3.6	1
514	Defect-free-induced Na ⁺ disordering in electrode materials. <i>Energy and Environmental Science</i> , 2021 , 14, 3130-3140	35.4	24
513	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	13	15
512	Electrocatalytic Site Activity Enhancement via Orbital Overlap in A ₂ MnRuO ₇ (A = Dy ³⁺ , Ho ³⁺ , and Er ³⁺) Pyrochlore Nanostructures. <i>ACS Applied Energy Materials</i> , 2021 , 4, 176-185	6.1	3
511	Synthesis conditions impact on SrMoO electroceramic: crystal structure, stability and transport properties.. <i>RSC Advances</i> , 2021 , 11, 13814-13820	3.7	0
510	Structural evolution, optical gap and thermoelectric properties of CH ₃ NH ₃ SnBr ₃ hybrid perovskite, prepared by mechanochemistry. <i>Materials Advances</i> , 2021 , 2, 3620-3628	3.3	4
509	Strongly reduced lattice thermal conductivity in Sn-doped rare-earth (M) filled skutterudites M CoSb ₃ Sn, promoted by Sb-Sn disordering and phase segregation.. <i>RSC Advances</i> , 2021 , 11, 26421-26431	3.7	1

508	A Monolithic Solid-State Sodium-Sulfur Battery with Al-Doped NaZr(SiPO) Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42927-42934	9.5	4
507	Synergy of diffraction and spectroscopic techniques to unveil the crystal structure of antimonite acid. <i>Scientific Reports</i> , 2021 , 11, 17763	4.9	3
506	Influence of Polymorphism on the Magnetic Properties of CoTeO Spinel. <i>Inorganic Chemistry</i> , 2021 , 60, 13990-14001	5.1	1
505	On the lack of monoclinic distortion in the insulating regime of EuNiO and GdNiO perovskites by high-angular resolution synchrotron X-ray diffraction: a comparison with YNiO. <i>Dalton Transactions</i> , 2021 , 50, 7085-7093	4.3	0
504	High-Performance n-type SnSe Thermoelectric Polycrystal Prepared by Arc-Melting. <i>Cell Reports Physical Science</i> , 2020 , 1, 100263	6.1	10
503	Performance of SrCo _{1-x} Ir _x O ₃ (x = 0.10 and 0.15) Perovskites as Potential Cathode Materials for Intermediate-Temperature Solid Oxide Fuel Cells (IT-SOFC). <i>ACS Applied Energy Materials</i> , 2020 , 3, 6709-6716	6.1	6
502	Structural characterization and electrochemical properties of (La,Sr)(Al,Mg)O ₄ perovskites. <i>New Journal of Chemistry</i> , 2020 , 44, 11608-11614	3.6	0
501	Magnetic properties of Sr _{0.7} R _{0.3} CoO ₃ (R = Tb, Er and Ho) perovskites. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156121	5.7	1
500	Experimental corroboration of the thermoelectric performance of Bi ₂ PdO ₄ oxide and Pb-doped derivatives. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5509-5516	7.1	1
499	Crystal Structure Features of CsPbBr Perovskite Prepared by Mechanochemical Synthesis. <i>ACS Omega</i> , 2020 , 5, 5931-5938	3.9	26
498	Features of the High-Temperature Structural Evolution of GeTe Thermoelectric Probed by Neutron and Synchrotron Powder Diffraction. <i>Metals</i> , 2020 , 10, 48	2.3	5
497	Charge exchange recombination spectroscopy at Wendelstein 7-X. <i>Review of Scientific Instruments</i> , 2020 , 91, 023507	1.7	14
496	Enhanced stability in CH ₃ NH ₃ PbI ₃ hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. <i>Scientific Reports</i> , 2020 , 10, 11228	4.9	6
495	High thermoelectric performance of rapidly microwave-synthesized Sn _{1-x} Bi _x . <i>Materials Advances</i> , 2020 , 1, 845-853	3.3	3
494	Unveiling the Correlation between the Crystalline Structure of M-Filled CoSb ₃ (M = Y, K, Sr) Skutterudites and Their Thermoelectric Transport Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2001651	15.6	14
493	Correlation between Crystal Structure and Thermoelectric Properties of Sr _{1-x} Ti _{0.9} Nb _{0.1} O ₃ Ceramics. <i>Crystals</i> , 2020 , 10, 100	2.3	5
492	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. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2881-2892	6.1	7
491	Structural, magnetic, and spin dynamical properties of the polar antiferromagnets Ni _{3-x} CoxTeO ₆ (x=1,2). <i>Physical Review B</i> , 2020 , 101,	3.3	5

490	Magnetism of Ir ⁵⁺ -based double perovskites: Unraveling its nature and the influence of structure. <i>Physical Review B</i> , 2020 , 101,	3-3	2
489	Structural evolution across the metal-insulator transition of strongly distorted Lu _{1-x} Sc _x NiO ₃ perovskites (x = 0, 0.1, 0.2). <i>Materials Research Express</i> , 2020 , 7, 126301	1-7	
488	Crystal structure features of CH ₃ NH ₃ PbI _{3-x} Br _x hybrid perovskites prepared by ball milling: a route to more stable materials. <i>CrystEngComm</i> , 2020 , 22, 767-775	3-3	9
487	Divalent chromium in the octahedral positions of the novel hybrid perovskites CH ₃ NH ₃ Pb _{1-x} Cr _x (Br,Cl) ₃ (x = 0.25, 0.5): Induction of narrow bands inside the bandgap. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153414	5-7	7
486	Ni particles generated in situ from spinel structures used in ethanol steam reforming reaction. <i>Materials Today Chemistry</i> , 2020 , 15, 100213	6.2	5
485	Topotactic Oxidation of Perovskites to Novel SrMoMO (M = Fe and Cr) Deficient Scheelite-Type Oxides. <i>Materials</i> , 2020 , 13,	3-5	1
484	hErMnO ₃ absorbance, reflectivity, and emissivity in the terahertz to mid-infrared from 2 to 1700 K: Carrier screening, Fröhlich resonance, small polarons, and bipolarons. <i>Physical Review B</i> , 2020 , 102,	3-3	1
483	Structural Features, Anisotropic Thermal Expansion, and Thermoelectric Performance in Bulk Black Phosphorus Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2020 , 59, 14932-14943	5-1	4
482	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14822-14828	13	24
481	A comprehensive examination of the local- and long-range structure of SbO pyrochlore oxide. <i>Scientific Reports</i> , 2020 , 10, 16956	4-9	2
480	Novel cobalt-free family of SrFe _{1-x} Sc _x O _{3-δ} perovskite materials for cathode applications in solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2020 , 44, 11702-11710	4-5	1
479	Structure-properties relationship in the hydronium-containing pyrochlores (HO)SbTeO with catalytic activity in the fructose dehydration reaction. <i>Dalton Transactions</i> , 2020 , 49, 11657-11667	4-3	2
478	Dehydration of fructose to HMF in presence of (H ₃ O) _x Sb _x Te _(2-x) O ₆ (x = 1, 1.1, 1.25) in H ₂ O-MIBK. <i>Molecular Catalysis</i> , 2020 , 481, 110276	3-3	12
477	Unveiling the infrared complex dielectric function of ilmenite CdTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152136	5-7	5
476	Complex antiferromagnetic order in the garnet Co ₃ Al ₂ Si ₃ O ₁₂ . <i>Physical Review B</i> , 2020 , 101,	3-3	1
475	Low-temperature crystal and magnetic structures of the magnetoelectric material Fe ₄ Nb ₂ O ₉ . <i>Physical Review B</i> , 2019 , 100,	3-3	9
474	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO ₄ . <i>NPG Asia Materials</i> , 2019 , 11,	10-3	9
473	Dual Oxygen Defects in Layered LaSrBaInO (x = 0.2, 0.3) Oxide-Ion Conductors: A Neutron Diffraction Study. <i>Materials</i> , 2019 , 12,	3-5	11

472	A High-Performance Monolithic Solid-State Sodium Battery with Ca ²⁺ Doped Na ₃ Zr ₂ Si ₂ PO ₁₂ Electrolyte. <i>Advanced Energy Materials</i> , 2019 , 9, 1901205	21.8	83
471	Spin-phonon coupling in uniaxial anisotropic spin-glass based on Fe ₂ TiO ₅ pseudobrookite. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 563-572	5.7	11
470	Crystal structure and second harmonic generation in Bi ₂ TeO ₅ : An X-N study from synchrotron and neutron diffraction data. <i>Journal of Solid State Chemistry</i> , 2019 , 276, 122-127	3.3	4
469	Water insertion and combined interstitial-vacancy oxygen conduction in the layered perovskites La _{1.2} Sr _{0.8} BaxInO ₄ . <i>New Journal of Chemistry</i> , 2019 , 43, 6087-6094	3.6	9
468	Substantial thermal conductivity reduction in mischmetal skutterudites MmxCo ₄ Sb ₁₂ prepared under high-pressure conditions, due to uneven distribution of the rare-earth elements. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4124-4131	7.1	15
467	Dynamic Disorder Restriction of Methylammonium (MA) Groups in Chloride-Doped MAPbBr Hybrid Perovskites: A Neutron Powder Diffraction Study. <i>Chemistry - A European Journal</i> , 2019 , 25, 4496-4500	4.8	6
466	Experimental Observation of Monoclinic Distortion in the Insulating Regime of SmNiO by Synchrotron X-ray Diffraction. <i>Inorganic Chemistry</i> , 2019 , 58, 11828-11835	5.1	9
465	Structural correlation of magneto-electric coupling in polycrystalline TbMnO ₃ at low temperature. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 510-519	5.7	5
464	Design, Synthesis, Structure and Properties of Ba-Doped Derivatives of SrCoRuO Perovskite as Cathode Materials for SOFCs. <i>Materials</i> , 2019 , 12,	3.5	3
463	Aluminum dual doping and oxygen transport pathway in novel Sr ₁₁ Mo ₄ Al _x O ₂₃ oxide-ion solid electrolytes. <i>Solid State Ionics</i> , 2019 , 339, 115003	3.3	2
462	Evidence of nanostructuring and reduced thermal conductivity in n-type Sb-alloyed SnSe thermoelectric polycrystals. <i>Journal of Applied Physics</i> , 2019 , 126, 045105	2.5	16
461	Large reversible magnetocaloric effect in the ferromagnetic pyrochlores R ₂ Mn ₂ O ₇ (R = Dy, Ho, Yb). <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 490, 165494	2.8	0
460	Influence of Nanostructuring on PbTe Alloys Synthesized by Arc-Melting. <i>Materials</i> , 2019 , 12,	3.5	5
459	Effects of Fluorine Doping on Structural and Electrochemical Properties of LiGaLaZrO as Electrolytes for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2042-2049	4.5	49
458	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH ₃ NH ₃ Pb(Br _{1-x} Cl _x) ₃ Perovskites. <i>Crystal Growth and Design</i> , 2019 , 19, 918-924	3.5	12
457	Design, synthesis and performance of Ba-doped derivatives of SrMo _{0.9} Fe _{0.1} O ₃ -perovskite as anode materials in SOFCs. <i>Journal of Materiomics</i> , 2019 , 5, 280-285	6.7	4
456	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803158	21.8	54
455	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. <i>Renewable Energy</i> , 2019 , 133, 205-215	8.1	17

454	Crystal structure and phase transitions in R ₂ TeO ₆ (R = La, Pr, Nd, Tb, Ho, Er, Tm, Lu) oxides: A neutron diffraction study. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 4407-4413	5.9	0
453	Structural and electrical properties of cobalt-doped 4H-(mathrm{SrMnO}_{3-delta}) perovskites obtained by the hydrothermal method. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	
452	Structural evolution of a Ge-substituted SnSe thermoelectric material with low thermal conductivity. <i>Journal of Applied Crystallography</i> , 2018 , 51, 337-343	3.8	7
451	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	5.7	12
450	Gérard Demazeau, 07.06.1943–03.11.2017. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2018 , 73, 1-2	1	
449	New Mechanism for Ferroelectricity in the Perovskite CaMnTiO Synthesized by Spark Plasma Sintering. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2214-2220	16.4	22
448	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. <i>Nature Communications</i> , 2018 , 9, 86	17.4	28
447	Visualization of the Diffusion Pathway of Protons in (NH)SiTiPO as an Electrolyte for Intermediate-Temperature Fuel Cells. <i>Inorganic Chemistry</i> , 2018 , 57, 676-680	5.1	4
446	Structural and spectroscopic properties of the polar antiferromagnet Ni ₂ MnTeO ₆ . <i>Physical Review B</i> , 2018 , 97,	3.3	6
445	Experimental evidence for stochastic switching of supercooled phases in NdNiO ₃ nanostructures. <i>Applied Physics Letters</i> , 2018 , 112, 133103	3.4	1
444	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	3.4	2
443	Identification of spin wave resonances and crystal field levels in simple chromites RCrO ₃ (R = Pr, Sm, Er) at low temperatures in the THz spectral region. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 468, 294-303	2.8	2
442	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. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16834-16845	6.7	6
441	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. <i>Nano Energy</i> , 2018 , 52, 510-516	17.1	52
440	SrCo _{1-x} Ru _x O ₃ (x = 0.05, 0.1, and 0.15) Perovskites As Outperforming Cathode Material in Intermediate-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4505-4513	6.1	10
439	Low lattice thermal conductivity in arc-melted GeTe with Ge-deficient crystal structure. <i>Applied Physics Letters</i> , 2018 , 113, 083902	3.4	8
438	Effect of chemical and hydrostatic pressure on the cubic pyrochlore Cd ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2018 , 98,	3.3	2
437	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 ¹³		20

436	Large Seebeck coefficients in La_2NiO_4 with tuned δ values. <i>Materials Today: Proceedings</i> , 2018 , 5, 10203-10210	1.4	3
435	Facile preparation of SnSe derivatives in nanostructured polycrystalline form by arc-melting synthesis. <i>Materials Today: Proceedings</i> , 2018 , 5, 10218-10226	1.4	3
434	Nanostructured Thermoelectric Chalcogenides 2018 ,		2
433	Far- and mid-infrared emission and reflectivity of orthorhombic and cubic ErMnO_3 : Polarons and bipolarons. <i>Physical Review B</i> , 2018 , 98,	3.3	2
432	Imaging the diffusion pathway of Al^{3+} ion in NASICON-type $(\text{Al}_{0.2}\text{Zr}_{0.8})_{20/19}\text{Nb}(\text{PO}_4)_3$ as electrolyte for rechargeable solid-state Al batteries. <i>Chinese Physics B</i> , 2018 , 27, 128201	1.2	28
431	Multiferroic properties of $\text{RFe}_{0.5}\text{Co}_{0.5}\text{O}_3$ with $\text{R}=\text{Tm}, \text{Er}, \text{Ho}, \text{Dy}, \text{and Tb}$. <i>Physical Review B</i> , 2018 , 98,	3.3	17
430	The Crystal Structure of Defect KBi_6 Pyrochlores ($\text{B}, \text{Bi}, \text{Nb}, \text{W}, \text{Sb}, \text{Te}$) Revisited from Neutron Diffraction Data. <i>Crystals</i> , 2018 , 8, 368	2.3	5
429	Role of lattice oxygen content and Ni geometry in the oxygen evolution activity of the Ba-Ni-O system. <i>Journal of Power Sources</i> , 2018 , 404, 56-63	8.9	10
428	Thermal Conductivity Reduction by Fluctuation of the Filling Fraction in Filled Cobalt Antimonide Skutterudite Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6181-6189	6.1	12
427	Evolution of μ_0 in Fe-doped manganites synthesized by the ball-milling method. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	1
426	New magnetic phase in the nickelate perovskite TlNiO_3 . <i>Physical Review B</i> , 2017 , 95,	3.3	3
425	Effect of Co substitution on the physicochemical properties of $\text{La}_{0.67}\text{Sr}_{0.22}\text{Ba}_{0.11}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ compounds ($0 \leq x \leq 0.3$). <i>Bulletin of Materials Science</i> , 2017 , 40, 79-85	1.7	0
424	Structural origin of the enhanced ionic conductivity upon Nb doping in SrMoO_6 defective double perovskite. <i>Dalton Transactions</i> , 2017 , 46, 3934-3942	4.3	3
423	Elucidating the diffusion pathway of protons in ammonium polyphosphate: a potential electrolyte for intermediate temperature fuel cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7839-7844	13	5
422	Design of new Ga-doped SrMoO_6 perovskites performing as anode materials in SOFC. <i>Renewable Energy</i> , 2017 , 111, 476-483	8.1	21
421	Crystal Structure and Magnetic and Magnetocaloric Properties of Cobalt Hydroxychlorides $\text{Co}_2(\text{OH})_4\text{Cl}_x$. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2289-2294	2.3	
420	Influence of magnesium doping the structural and magnetocaloric properties of manganites oxide prepared by sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	
419	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO_4 . <i>Inorganic Chemistry</i> , 2017 , 56, 8187-8194	5.1	3

418	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. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F3019-F3027	3.9	2
417	Influence of Doping and Nanostructuration on n-Type Bi(TeSe) Alloys Synthesized by Arc Melting. <i>Nanoscale Research Letters</i> , 2017 , 12, 47	5	7
416	Ionic conductivity enhancement in Ti-doped Sr ₁₁ Mo ₄ O ₂₃ defective double perovskites. <i>RSC Advances</i> , 2017 , 7, 16163-16172	3.7	3
415	Synthesis, structural characterization and magnetic properties of the series of double perovskites Ba _{1+x} La _{1-x} MnSbO ₆ with 0.1 $\leq x \leq 0.7$. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 776-787	5.7	6
414	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	8.4	18
413	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	5.7	4
412	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	7.1	17
411	Evaluation of LaNi _{0.6} M _{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	6.7	9
410	Enhanced figure of merit in nanostructured (Bi,Sb)Te with optimized composition, prepared by a straightforward arc-melting procedure. <i>Scientific Reports</i> , 2017 , 7, 6277	4.9	28
409	Elucidating the Methylammonium (MA) Conformation in MAPbBr Perovskite with Application in Solar Cells. <i>Inorganic Chemistry</i> , 2017 , 56, 14214-14219	5.1	34
408	Low temperature phase transitions of the SrMo _{1-x} M _x O ₃ - δ (M = Mg and Ga) perovskites. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 482-488	5.7	2
407	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	5.7	2
406	Structural effects of LaNiO ₃ as electrocatalyst for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 363-371	21.8	46
405	Extra-low thermal conductivity in unfilled CoSb ₃ -kutterudite synthesized under high-pressure conditions. <i>Applied Physics Letters</i> , 2017 , 111, 083902	3.4	15
404	Potassium Disorder in the Defect Pyrochlore KSbTeO ₆ : A Neutron Diffraction Study. <i>Crystals</i> , 2017 , 7, 24	2.3	7
403	Giant reversible magnetocaloric effect in the pyrochlore Er ₂ Mn ₂ O ₇ due to a cooperative two-sublattice ferromagnetic order. <i>Physical Review Materials</i> , 2017 , 1,	3.2	8
402	Structural phase transition in polycrystalline SnSe: a neutron diffraction study in correlation with thermoelectric properties. <i>Journal of Applied Crystallography</i> , 2016 , 49, 2138-2144	3.8	17
401	LaMn ₃ Ni ₂ Mn ₂ O ₁₂ : An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. <i>Chemistry of Materials</i> , 2016 , 28, 8988-8996	9.6	18

400	Giant Seebeck effect in Ge-doped SnSe. <i>Scientific Reports</i> , 2016 , 6, 26774	4.9	56
399	Possible Bose-Einstein condensate associated with an orbital degree of freedom in the Mott insulator CaCrO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	3
398	Nanostructured Bi ₂ Te ₃ Prepared by a Straightforward Arc-Melting Method. <i>Nanoscale Research Letters</i> , 2016 , 11, 142	5	21
397	Electronic properties in intrinsically disordered double perovskites: Sr ₃ MnMo ₂ O ₉ and Ba ₃ MnMo ₂ O ₉ with Mo ⁵⁺ valence state. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 411-418	5.7	0
396	High-temperature dynamic octahedral tilting in the ionic conductor Sr ₁₁ Mo ₄ O ₂₃ . <i>Journal of Applied Crystallography</i> , 2016 , 49, 78-84	3.8	6
395	Nb-Doped SrCoO Perovskites as Potential Cathodes for Solid-Oxide Fuel Cells. <i>Materials</i> , 2016 , 9,	3.5	15
394	Novel Mg-Doped SrMoO ₃ Perovskites Designed as Anode Materials for Solid Oxide Fuel Cells. <i>Materials</i> , 2016 , 9,	3.5	12
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3 Magnetic Properties of Efficient Catalysts Based on La-Doped Ceria-Supported Nickel Nanoparticles for rWGS Reaction. Influence of Ni Loading. *Advanced Sustainable Systems*, 2100029 5.9 1

2 Structural Phase Transitions of Hybrid Perovskites CH₃NH₃PbX₃ (X = Br, Cl) from Synchrotron and Neutron Diffraction Data 1

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