Jos Antonio Alonso

List of Publications by Citations

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	Evolution of the Jahn-Teller distortion of MnO6 octahedra in RMnO3 perovskites (R = Pr, Nd, Dy, Tb, Ho, Er, Y): a neutron diffraction study. *Inorganic Chemistry*, **2000**, 39, 917-23	5.1	489
524	Charge Disproportionation in RNiO3 Perovskites: Simultaneous Metal-Insulator and Structural Transition in YNiO3. *Physical Review Letters*, **1999**, 82, 3871-3874	7.4	307
523	A kinetic study of oxygen reduction reaction on La2NiO4 cathodes by means of impedance spectroscopy. *Journal of Electroanalytical Chemistry*, **2007**, 611, 107-116	4.1	270
522	Magnetic structure of hexagonal RMnO3 (R=Y, Sc): Thermal evolution from neutron powder diffraction data. *Physical Review B*, **2000**, 62, 9498-9510	3.3	258
521	Finding universal correlations between cationic disorder and low field magnetoresistance in FeMo double perovskite series. *Physical Review Letters*, **2001**, 86, 2443-6	7.4	214
520	Charge Ordering as Alternative to Jahn-Teller Distortion. *Physical Review Letters*, **2007**, 98,	7.4	197
519	Complex Magnetism and Magnetic Structures of the Metastable HoMnO3 Perovskite. *Inorganic Chemistry*, **2001**, 40, 1020-1028	5.1	197
518	Raman phonons as a probe of disorder, fluctuations, and local structure in doped and undoped orthorhombic and rhombohedral manganites. *Physical Review B*, **2002**, 66,	3.3	188
517	Lithium Distribution in Aluminum-Free Cubic Li7La3Zr2O12. *Chemistry of Materials*, **2011**, 23, 3587-3589	9.6	160
516	Room-temperature monoclinic distortion due to charge disproportionation in RNiO3 perovskites with small rare-earth cations (R=Ho, Y, Er, Tm, Yb, and Lu): A neutron diffraction study. *Physical Review B*, **2000**, 61, 1756-1763	3.3	154
515	Metal□Insulator Transitions, Structural and Microstructural Evolution of RNiO3 (R = Sm, Eu, Gd, Dy, Ho, Y) Perovskites: Evidence for Room-Temperature Charge Disproportionation in Monoclinic HoNiO3 and YNiO3. *Journal of the American Chemical Society*, **1999**, 121, 4754-4762	16.4	144
514	Crystallographic and magnetic structure of SrCoO2.5 brownmillerite: Neutron study coupled with band-structure calculations. *Physical Review B*, **2008**, 78,	3.3	139
513	Evaluation of the La2Ni1 □kCuxO4 + □system as SOFC cathode material with 8YSZ and LSGM as electrolytes. *Solid State Ionics*, **2008**, 179, 393-400	3.3	138
512	Origin of neutron magnetic scattering in antisite-disordered Sr2FeMoO6 double perovskites. *Physical Review B*, **2002**, 65,	3.3	138
511	Evolution of the Magnetic Structure of Hexagonal HoMnO3 from Neutron Powder Diffraction Data. *Chemistry of Materials*, **2001**, 13, 1497-1505	9.6	131
510	SrFeO3-□Perovskite Oxides: Chemical Features and Performance for Methane Combustion. *Chemistry of Materials*, **2002**, 14, 2325-2333	9.6	128
509	The magnetic structure of YMnO3perovskite revisited. *Journal of Physics Condensed Matter*, **2002**, 14, 3285-3294	1.8	128

508	A New Family of Mo-Doped SrCoO3 Perovskites for Application in Reversible Solid State Electrochemical Cells. *Chemistry of Materials*, **2012**, 24, 2655-2663	9.6	124
507	Specific heat and magnetic order in LaMnO3+ *Physical Review B*, **1999**, 60, 12184-12190	3.3	118
506	A structural study from neutron diffraction data and magnetic properties of (R = La, rare earth). *Journal of Physics Condensed Matter*, **1997**, 9, 8515-8526	1.8	115
505	On the Location of Li(+) Cations in the Fast Li-Cation Conductor La(0.5)Li(0.5)TiO(3) Perovskite. *Angewandte Chemie - International Edition*, **2000**, 39, 619-621	16.4	110
504	Magnetic structure and properties of BiMn2O5 oxide: A neutron diffraction study. *Physical Review B*, **2002**, 65,	3.3	109
503	Induction of Colossal Magnetoresistance in the Double Perovskite Sr2CoMoO6. *Chemistry of Materials*, **2002**, 14, 812-818	9.6	107
502	Charge disproportionation in RNiO3 perovskites (R=rare earth) from high-resolution x-ray absorption spectroscopy. *Physical Review B*, **2009**, 80,	3.3	106
501	Recent Advances in Perovskite-Type Oxides for Energy Conversion and Storage Applications. *Advanced Energy Materials*, **2021**, 11, 2000459	21.8	105
500	Preparation, Crystal Structure, and Magnetic and Magnetotransport Properties of the Double Perovskite Ca2FeMoO6. *Chemistry of Materials*, **2000**, 12, 161-168	9.6	101
499	Enhanced magnetoresistance in the complex perovskite LaCu3Mn4O12. *Applied Physics Letters*, **2003**, 83, 2623-2625	3.4	99
498	Correlation between reconstructive phase transitions and transport properties from SrCoO2.5 brownmillerite: A neutron diffraction study. *Solid State Sciences*, **2008**, 10, 1924-1935	3.4	97
497	SrCo1SbxO3perovskite oxides as cathode materials in solid oxide fuel cells. *Journal of Power Sources*, **2009**, 192, 132-137	8.9	96
496	Structure and Magnetic Properties of Sr2CoWO6: An Ordered Double Perovskite Containing Co2+(HS) with Unquenched Orbital Magnetic Moment. *Chemistry of Materials*, **2003**, 15, 1655-1663	9.6	95
495	Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites RCrO3. *Physical Review B*, **2010**, 81,	3.3	94
494	Magnetic structure evolution of NdMnO3derived from neutron diffraction data. *Journal of Physics Condensed Matter*, **2000**, 12, 1361-1376	1.8	90
493	High-temperature structural evolution of RNiO3 (R=Ho,Y, Er, Lu) perovskites: Charge disproportionation and electronic localization. *Physical Review B*, **2001**, 64,	3.3	88
492	A High-Performance Monolithic Solid-State Sodium Battery with Ca2+ Doped Na3Zr2Si2PO12 Electrolyte. *Advanced Energy Materials*, **2019**, 9, 1901205	21.8	83
491	High Temperature Crystal Chemistry and Oxygen Permeation Properties of the Mixed IonicElectronic Conductors LnBaCo[sub 2]O[sub 5+] (Ln=Lanthanide). *Journal of the Electrochemical Society*, **2009**, 156, B1376	3.9	83

490	Charge transfer and antiferromagnetic insulator phase in SrRu1−xCrxO3 perovskites: Solid solutions between two itinerant electron oxides. *Physical Review B*, **2006**, 73,	3.3	82
489	Non-stoichiometry, structural defects and properties of LaMnO3+δ with high δ values (0.11≤δ≤0.29). *Journal of Materials Chemistry*, **1997**, 7, 2139-2144		81
488	SrCo0.95Sb0.05O3−δ as Cathode Material for High Power Density Solid Oxide Fuel Cells. *Chemistry of Materials*, **2010**, 22, 789-798	9.6	77
487	Structural and Electrical Characterization of the Novel SrCo0.9Sb0.1O3−δ Perovskite: Evaluation as a Solid Oxide Fuel Cell Cathode Material. *Chemistry of Materials*, **2007**, 19, 6437-6444	9.6	77
486	In situ high temperature neutron powder diffraction study of oxygen-rich La2NiO4+δ in air: correlation with the electrical behaviour. *Journal of Materials Chemistry*, **2006**, 16, 3402-3408		77
485	Double perovskite oxides A2FeMoO6?? (A=Ca, Sr and Ba) as catalysts for methane combustion. *Applied Catalysis B: Environmental*, **2004**, 53, 37-45	21.8	76
484	Structure and charge order in the antiferromagnetic band-insulating phase of NdNiO3. *Physical Review B*, **2009**, 79,	3.3	70
483	Studies of structural disorder in ReBa2Cu3O7−δ thin films (Re=rare earth) as a function of rare-earth ionic radius and film deposition conditions. *Physica C: Superconductivity and Its Applications*, **1994**, 232, 288-308	1.3	69
482	Spin-orbit-induced mixed-spin ground state in RNiO3 perovskites probed by x-ray absorption spectroscopy: Insight into the metal-to-insulator transition. *Physical Review B*, **2005**, 71,	3.3	67
481	Electronic structure, local magnetism, and spin-orbit effects of Ir(IV)-, Ir(V)-, and Ir(VI)-based compounds. *Physical Review B*, **2015**, 91,	3.3	66
480	Record Seebeck coefficient and extremely low thermal conductivity in nanostructured SnSe. *Applied Physics Letters*, **2015**, 106, 083902	3.4	63
479	Neutron diffraction study of the magnetic structure of Er 2 BaNiO 5. *Solid State Communications*, **1990**, 76, 467-474	1.6	63
478	Co-free, iron perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 280-284	8.9	62
477	Preparation and structural study from neutron diffraction data of RCoO3 (R = Pr, Tb, Dy, Ho, Er, Tm, Yb, Lu) perovskites. *Journal of Materials Chemistry*, **2006**, 16, 1555-1560		62
476	High Oxygen Pressure Preparation, Structural Refinement, and Thermal Behavior ofRMn2O5(R==La, Pr, Nd, Sm, Eu). *Journal of Solid State Chemistry*, **1997**, 129, 105-112	3.3	60
475	Neutron Diffraction Study of the Crystal Structure of BaMoO4: A Suitable Precursor for Metallic BaMoO3 Perovskite. *Journal of Solid State Chemistry*, **1999**, 146, 266-270	3.3	60
474	Modified nickel oxides as cathode materials for MCFC. *Journal of Power Sources*, **2000**, 86, 329-333	8.9	58
473	Structural Characterization and Polymorphism of R2BaNiO5 (R = Nd, Gd, Dy, Y, Ho, Er, Tm, Yb) Studied by Neutron Diffraction. *Journal of Solid State Chemistry*, **1993**, 103, 322-333	3.3	57

472	Giant Seebeck effect in Ge-doped SnSe. *Scientific Reports*, **2016**, 6, 26774	4.9	56
471	Effect of Sr content on the crystal structure and electrical properties of the system La2-xSrxNiO4+delta (0 . *Dalton Transactions*, **2006**, 4377-83	4.3	56
470	Defect LaCuO3 (0.05 0.45) perovskites. *Applied Catalysis B: Environmental*, **2000**, 26, 131-142	21.8	56
469	Preparation, Crystal and Magnetic Structure, and Magnetotransport Properties of the Double Perovskite CaCu2.5Mn4.5O12. *Chemistry of Materials*, **2003**, 15, 2193-2200	9.6	55
468	Raman phonons and light scattering in RMnO3 (R=La, Pr, Nd, Ho, Er Tb and Y) orthorhombic and hexagonal manganites. *Journal of Alloys and Compounds*, **2001**, 323-324, 494-497	5.7	55
467	Oxygen-Deficient Perovskite Sr0.7Y0.3CoO2.65 as a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. *Chemistry of Materials*, **2011**, 23, 5037-5044	9.6	54
466	Influence of carrier injection on the metal-insulator transition in electron- and hole-doped R1-xAxNiO3 perovskites. *Physical Review B*, **1995**, 52, 13563-13569	3.3	54
465	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803158	21.8	54
464	Characterization of La0.5Sr0.5Co0.5Ti0.5O3 as symmetrical electrode material for intermediate-temperature solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 18310-18318	6.7	53
463	Evolution of the crystal structure of RVO3 (R = La, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu, Y) perovskites from neutron powder diffraction data. *Inorganic Chemistry*, **2008**, 47, 2634-40	5.1	53
462	Short-range charge order in RNiO3 perovskites (R=Pr, Nd, Eu, Y) probed by x-ray-absorption spectroscopy. *Physical Review B*, **2005**, 71,	3.3	53
461	Structural and electrochemical properties of LiMn0.6Fe0.4PO4 as a cathode material for flexible lithium-ion batteries and self-charging power pack. *Nano Energy*, **2018**, 52, 510-516	17.1	52
460	Record saturation magnetization, Curie temperature, and magnetoresistance in Sr2FeMoO6 double perovskite synthesized by wet-chemistry techniques. *Applied Physics Letters*, **2004**, 85, 266-268	3.4	52
459	Magnetic structures of LaMnO3 + perovskites (= 0.11, 0.15, 0.26). *Solid State Communications*, **1997**, 102, 7-12	1.6	51
458	Percolation-Limited Ionic Diffusion in Li0.5-xNaxLa0.5TiO3Perovskites (0 0.5). *Chemistry of Materials*, **2002**, 14, 5148-5152	9.6	51
457	Magnetic structure of LaCrO3 perovskite under high pressure from in situ neutron diffraction. *Physical Review Letters*, **2011**, 106, 057201	7.4	50
456	Magnetic structure of the HoNiO3 perovskite. *Physical Review B*, **2001**, 64,	3.3	50
455	Room Temperature Magnetoresistance and Cluster-Glass Behavior in the Tl2 BixMn2O7 (0 0.5) Pyrochlore Series. *Physical Review Letters*, **1999**, 82, 189-192	7.4	50

454	Effects of Fluorine Doping on Structural and Electrochemical Properties of LiGaLaZrO as Electrolytes for Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 2042-2049	8.5	49
453	Preparation and structural study from neutron diffraction data of R2MoO6 (R=Dy, Ho, Er, Tm, Yb, Y). *Journal of Solid State Chemistry*, **2004**, 177, 2470-2476	3.3	48
452	Preparation, neutron structural study and characterization of BaNbo3: A Pauli-like metallic perovskite. *Materials Research Bulletin*, **1995**, 30, 201-208	5.1	48
451	Structural effects of LaNiO3 as electrocatalyst for the oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2017**, 203, 363-371	21.8	46
450	Hole and Electron Doping of RNiO3 (R = La, Nd). *Journal of Solid State Chemistry*, **1995**, 116, 146-156	3.3	46
449	Optimized energy conversion efficiency in solid-oxide fuel cells implementing SrMo1−xFexO3− perovskites as anodes. *Journal of Power Sources*, **2012**, 208, 153-158	8.9	45
448	Switching from ferro- to antiferromagnetism in A2CrSbO6 (A = Ca, Sr) double perovskites: a neutron diffraction study. *Journal of Materials Chemistry*, **2007**, 17, 3555		45
447	An oxygen-deficient perovskite as selective catalyst in the oxidation of alkyl benzenes. *Angewandte Chemie - International Edition*, **2011**, 50, 6557-61	16.4	44
446	Defective Ni Perovskites as Cathode Materials in Intermediate-Temperature Solid-Oxide Fuel Cells: A Structure−Properties Correlation. *Chemistry of Materials*, **2010**, 22, 1071-1079	9.6	44
445	Energy-dispersive X-ray absorption spectroscopy at LNLS: investigation on strongly correlated metal oxides. *Journal of Synchrotron Radiation*, **2010**, 17, 93-102	2.4	44
444	Preparation, crystal and magnetic structures of two new double perovskites: Ca2CoTeO6 and Sr2CoTeO6. *Journal of Materials Chemistry*, **2005**, 15, 993-1001		44
443	High-Pressure Preparation, Crystal Structure, Magnetic Properties, and Phase Transitions in GdNiO3 and DyNiO3 Perovskites. *Chemistry of Materials*, **1999**, 11, 2463-2469	9.6	44
442	Preparation, Crystal Structure, and Metal-to-Insulator Transition of EuNiO3. *Journal of Solid State Chemistry*, **1995**, 120, 170-174	3.3	44
441	Crystal structure, phase transitions, and magnetic properties of iridium perovskites Sr2MIrO6 (M = Ni, Zn). *Inorganic Chemistry*, **2013**, 52, 11013-22	5.1	43
440	Neutron diffraction study, magnetism and magnetotransport of stoichiometric CaVO3 perovskite with positive magnetoresistance. *Journal of Solid State Chemistry*, **2004**, 177, 3099-3104	3.3	42
439	Microscopic nature of the electron doping effects in the double perovskite Sr2−xLaxFeMoO6(0 ≤ 1) series. *Journal of Materials Chemistry*, **2003**, 13, 1771-1777		42
438	Crystal Structure Refinement of MgNb2O6Columbite from Neutron Powder Diffraction Data and Study of the Ternary System MgO−Nb2O5−NbO, with Evidence of Formation of New Reduced Pseudobrookite Mg5−xNb4+xO15(1.14≤1.60) Phases. *Journal of Solid State Chemistry*, **1997**, 134, 76-84	3.3	41
437	Vibrational spectra and force field calculation of A2Mn2O7 (A = Y, Dy, Er, Yb) pyrochlores. *Journal of Raman Spectroscopy*, **2003**, 34, 240-243	2.3	41

436	Experimental visualization of the diffusion pathway of sodium ions in the Na3[Ti2P2O10F] anode for sodium-ion battery. *Scientific Reports*, **2014**, 4, 7231	4.9	39
435	New Nb-doped SrCo1−xNbxO3−δ perovskites performing as cathodes in solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 14349-14354	6.7	39
434	Spin-state transition in Pr0.5Ca0.5CoO3 analyzed by x-ray absorption and emission spectroscopies. *Physical Review B*, **2012**, 86,	3.3	39
433	On Characterization of Barium Rare-Earth Antimonates: Ordered Perovskites Suitable as Substrates for Superconducting Films. *Journal of Solid State Chemistry*, **1997**, 128, 247-250	3.3	38
432	Synthesis, structure and magnetic properties of the new double perovskite Ca2CrSbO6. *Solid State Communications*, **2006**, 139, 19-22	1.6	38
431	Effects of high vacancy concentrations on the magnetic properties of La1−xMn1−yO3 (0.02?x, y?0.13). *Journal of Applied Physics*, **1998**, 83, 394-399	2.5	38
430	Magnetic Interactions in the Double Perovskites R2NiMnO6 (R = Tb, Ho, Er, Tm) Investigated by Neutron Diffraction. *Inorganic Chemistry*, **2015**, 54, 10890-900	5.1	37
429	Reflectivity, transmission, and photoinduced infrared spectra of NdNiO3. *Physical Review B*, **1997**, 56, 986-989	3.3	37
428	Optical to ultraviolet spectra of sandwiches of benzene and transition metal atoms: Time dependent density functional theory and many-body calculations. *Journal of Chemical Physics*, **2010**, 132, 044314	3.9	35
427	Structure of Fast Ion Conductors Li3xLa2/3-xTiO3 Deduced from Powder Neutron Diffraction Experiments. *Chemistry of Materials*, **2005**, 17, 2404-2412	9.6	35
426	Elucidating the Methylammonium (MA) Conformation in MAPbBr Perovskite with Application in Solar Cells. *Inorganic Chemistry*, **2017**, 56, 14214-14219	5.1	34
425	Enhancement of the Curie temperature along the perovskite series RCu3Mn4O12 driven by chemical pressure of R3+ cations (R = rare earths). *Inorganic Chemistry*, **2010**, 49, 5679-85	5.1	34
424	Study of the valence state and electronic structure in Sr(2)FeMO(6) (M = W, Mo, Re and Sb) double perovskites. *Physical Chemistry Chemical Physics*, **2010**, 12, 13616-25	3.6	34
423	Neutron powder diffraction study of the influence of high oxygen pressure treatments on La2NiO4+δ and structural analysis of La2Ni1−xCuxO4+δ (0≤x≤1). *Journal of Power Sources*, **2005**, 151, 52-56	8.9	34
422	Crystal Structure and Magnetism of the Double Perovskite Sr3Fe2MoO9:A Neutron Diffraction Study. *European Journal of Inorganic Chemistry*, **2005**, 2005, 1559-1564	2.3	34
421	Non-one-dimensional behavior in charge-ordered structurally quasi-one-dimensional Sr6Co5O15. *Physical Review B*, **2011**, 83,	3.3	33
420	In situ high temperature neutron powder diffraction study of La2Ni0.6Cu0.4O4+δ in air: Correlation with the electrical behaviour. *Journal of Power Sources*, **2007**, 169, 17-24	8.9	33
419	Crystal structure and magnetism of the double perovskites Sr3Fe2TeO9 and Ba3Fe2TeO9: a neutron diffraction study. *Journal of Materials Chemistry*, **2006**, 16, 4235		33

418	Structural Modifications Induced by High-Temperature Quenching Treatments in the Fast Ion Conductor Li0.18La0.61TiO3: A Neutron Diffraction Study. *Chemistry of Materials*, **2003**, 15, 4637-4641	9.6	33
417	Tristrontium dialuminum hexaoxide: an intricate superstructure of perovskite. *Inorganic Chemistry*, **1990**, 29, 4768-4771	5.1	33
416	Magnetic and electronic properties of RNiO[R = Pr, Nd, Eu, Ho and Y) perovskites studied by resonant soft x-ray magnetic powder diffraction. *Journal of Physics Condensed Matter*, **2011**, 23, 036002	1.8	32
415	Resonant x-ray scattering experiments on electronic orderings in NdNiO3 single crystals. *Physical Review B*, **2005**, 71,	3.3	32
414	A new perovskite polytype in the high-pressure sequence of BaIrO(3). *Journal of the American Chemical Society*, **2009**, 131, 7461-9	16.4	31
413	Lattice dynamical study of optical modes in Tl2Mn2O7 and In2Mn2O7 pyrochlores. *Physical Review B*, **2004**, 69,	3.3	31
412	Structural changes produced during heating of the fast ion conductor Li0.18La0.61TiO3. A neutron diffraction study. *Journal of Solid State Chemistry*, **2004**, 177, 1157-1164	3.3	31
411	Crystallographic and magnetic transitions in CeVO3: A neutron diffraction study. *Physical Review B*, **2003**, 68,	3.3	31
410	High-pressure synthesis of Mg2FeH6 complex hydride. *International Journal of Hydrogen Energy*, **2010**, 35, 7835-7841	6.7	30
409	A Study of the Magnetic Structure of LaMn2O5 from Neutron Powder Diffraction Data. *European Journal of Inorganic Chemistry*, **2005**, 2005, 685-691	2.3	30
408	The new pyrochlores Pb2(MSb)O6.5 (M = Ti, Zr, Sn, Hf). *Journal of Materials Science Letters*, **1986**, 5, 675-677		30
407	SrMo0.9Co0.1O3A potential anode for intermediate-temperature solid-oxide fuel cells (IT-SOFC). *Journal of Power Sources*, **2014**, 258, 76-82	8.9	29
406	Synthesis, Structural, and Magnetic Characterization of a New Ferrimagnetic Oxide:´YFeMnO5. *Chemistry of Materials*, **2004**, 16, 4087-4094	9.6	29
405	Octahedral tilting and ordering of vacancies in the fast ion conductor Li0.12La0.63TiO3 perovskite: a neutron diffraction study. *Dalton Transactions RSC*, **2002**, 1406-1408		29
404	High oxygen pressure generation of flux-pinning centers in melt-textured YBa2Cu3O7. *Applied Physics Letters*, **1999**, 75, 1952-1954	3.4	29
403	Enhancement of ferromagnetic coupling in Sb-substituted Tl2Mn2O7 pyrochlores. *Physical Review B*, **1999**, 60, R15024-R15027	3.3	29
402	A new kind of B cations 1 : 3 ordering in cubic perovskites: The oxides Ba(M0.25Sb0.75)O3 (M = Li, Na). *Materials Research Bulletin*, **1987**, 22, 69-74	5.1	29
401	On the influence of the non-bonded pair of Pb(II) in the novel ordered perovskite Pb[Sc0.50(Ti0.25Te0.25)]O3. *Journal of Physics and Chemistry of Solids*, **1988**, 49, 385-389	3.9	29

400	New families of Mn+-doped SrCo1−xMxO3−δ perovskites performing as cathodes in solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2015**, 40, 11333-11341	6.7	28
399	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. *Nature Communications*, **2018**, 9, 86	17.4	28
398	Enhanced figure of merit in nanostructured (Bi,Sb)Te with optimized composition, prepared by a straightforward arc-melting procedure. *Scientific Reports*, **2017**, 7, 6277	4.9	28
397	New SrMo1−xCrxO3−δ perovskites as anodes in solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 4067-4073	6.7	28
396	A structural and magnetic study of the defect perovskite from high-resolution neutron diffraction data. *Journal of Physics Condensed Matter*, **1997**, 9, 6417-6426	1.8	28
395	Metal-insulator phase transitions of SmNiO3 and PrNiO3: Electrons in a polaronic medium. *Physical Review B*, **1999**, 60, 5304-5311	3.3	28
394	Imaging the diffusion pathway of Al 3+ ion in NASICON-type (Al 0.2 Zr 0.8) 20/19 Nb(PO 4) 3 as electrolyte for rechargeable solid-state Al batteries. *Chinese Physics B*, **2018**, 27, 128201	1.2	28
393	An original polymorph sequence in the high-temperature evolution of the perovskite Pb2TmSbO6. *Journal of the American Chemical Society*, **2010**, 132, 14470-80	16.4	27
392	Large enhancement of the catalytic activity for CO oxidation on hole doped (Ln,Sr)NiO3 (Ln=Pr, Sm, Eu) Perovskites. *Solid State Ionics*, **2000**, 131, 237-248	3.3	27
391	Crystal Structure Features of CsPbBr Perovskite Prepared by Mechanochemical Synthesis. *ACS Omega*, **2020**, 5, 5931-5938	3.9	26
390	Charge disproportionation in RNiO3 (R= Tm, Yb) perovskites observed in situ by neutron diffraction and 57Fe probe Mössbauer spectroscopy. *Physical Review B*, **2013**, 87,	3.3	26
389	Characterization of the Double Perovskite Ba2BixSc0.2Co1.8−xO6−δ (x = 0.1, 0.2). *Chemistry of Materials*, **2012**, 24, 4114-4122	9.6	26
388	Structure, thermal stability and electrical properties of Ca(V0.5Mo0.5)O3 as solid oxide fuel cell anode. *Journal of Power Sources*, **2009**, 192, 78-83	8.9	26
387	On the new ferrimagnetic Sr3Fe2UO9 double perovskite with TC above room temperature: a neutron diffraction study. *Journal of Materials Chemistry*, **2005**, 15, 4648		26
386	Crystal and Magnetic Structure of Sr2MReO6 (M = Ni, Co, Zn) Double Perovskites: A Neutron Diffraction Study. *European Journal of Inorganic Chemistry*, **2008**, 2008, 588-595	2.3	25
385	Hyperstoichiometric La1.9Sr0.1NiO4+δ Mixed Conductor as Novel Cathode for Intermediate Temperature Solid Oxide Fuel Cells. *Journal of Fuel Cell Science and Technology*, **2007**, 4, 294-298		25
384	Charge Transfer and Disorder in Double Perovskites. *Chemistry of Materials*, **2004**, 16, 3565-3572	9.6	25
383	Analysis by electrochemical impedance spectroscopy of new MCFC cathode materials. *Journal of Power Sources*, **2000**, 86, 309-315	8.9	25

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381	Low activation energies for interstitial oxygen conduction in the layered perovskites La1+xSr1−xInO4+δ. *Journal of Materials Chemistry A*, **2015**, 3, 17797-17803	13	24
380	Crystal and Magnetic Structure of Sr2MIrO6 (M = Ca, Mg) Double Perovskites. A Neutron Diffraction Study. *European Journal of Inorganic Chemistry*, **2014**, 2014, 178-185	2.3	24
379	Pressure-induced melting of charge-order in the self-doped Mott insulator YNiO3. *Physical Review B*, **2004**, 69,	3.3	24
378	Structural and magnetic transition in YbVO3: a neutron diffraction study. *Journal of Materials Chemistry*, **2003**, 13, 1234-1240		24
377	Neutron-diffraction study of the Jahn–Teller transition in PrMnO3. *Dalton Transactions RSC*, **2002**, 4422-4425		24
376	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. *Journal of Materials Chemistry A*, **2020**, 8, 14822-14828	13	24
375	Defect-free-induced Na+ disordering in electrode materials. *Energy and Environmental Science*, **2021**, 14, 3130-3140	35.4	24
374	Spin-canted magnetism and decoupling of charge and spin ordering in NdNiO3. *Physical Review B*, **2013**, 88,	3.3	23
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