

Maria Retuerto

List of Publications by Year in descending order

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103
papers

3,071
citations

185998

28
h-index

182168

51
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126
all docs

126
docs citations

126
times ranked

4709
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocrystalline Ni ₅ P ₄ : a hydrogen evolution electrocatalyst of exceptional efficiency in both alkaline and acidic media. <i>Energy and Environmental Science</i> , 2015, 8, 1027-1034.	15.6	435
2	Na-doped ruthenium perovskite electrocatalysts with improved oxygen evolution activity and durability in acidic media. <i>Nature Communications</i> , 2019, 10, 2041.	5.8	227
3	La _{1.5} Sr _{0.5} NiMn _{0.5} Ru _{0.5} O ₆ Double Perovskite with Enhanced ORR/OER Bifunctional Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21454-21464.	4.0	129
4	Giant Magnetoresistance in the Half-Metallic Double-Perovskite Ferrimagnet Mn ₂ FeReO ₆ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12069-12073.	7.2	100
5	Polar and Magnetic Mn ₂ FeMO ₆ (M=Nb, Ta) with LiNbO ₃ -type Structure: High-Pressure Synthesis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8406-8410.	7.2	81
6	Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. <i>Nature Communications</i> , 2018, 9, 1292.	5.8	81
7	Two-dimensional Pd-nanosheets as efficient electrocatalysts for ethanol electrooxidation. Evidences of the C-C scission at low potentials. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 866-875.	10.8	81
8	Evolution of the Crystal Structure of RVO ₃ (R = La, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu, Y) Perovskites from Neutron Powder Diffraction Data. <i>Inorganic Chemistry</i> , 2008, 47, 2634-2640.	1.9	76
9	Tuning the Electrocatalytic Water Oxidation Properties of AB ₂ O ₄ Spinel Nanocrystals: A (Li, Mg, Zn) and B (Mn, Co) Site Variants of LiMn ₂ O ₄ . <i>ACS Catalysis</i> , 2015, 5, 3403-3410.	5.5	74
10	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
11	Designing Polar and Magnetic Oxides: Zn ₂ FeTaO ₆ - in Search of Multiferroics. <i>Journal of the American Chemical Society</i> , 2014, 136, 8508-8511.	6.6	68
12	Synthesis and Properties of Charge-Ordered Thallium Halide Perovskites, CsTl ⁺ _{0.5} Tl ³⁺ _{0.5} X ₃ (X = F or Cl): Theoretical Precursors for Superconductivity?. <i>Chemistry of Materials</i> , 2013, 25, 4071-4079.	3.2	64
13	Record saturation magnetization, Curie temperature, and magnetoresistance in Sr ₂ FeMoO ₆ double perovskite synthesized by wet-chemistry techniques. <i>Applied Physics Letters</i> , 2004, 85, 266-268.	1.5	55
14	Mn ₂ FeWO ₆ : A New Ni ₃ TeO ₆ -type Polar and Magnetic Oxide. <i>Advanced Materials</i> , 2015, 27, 2177-2181.	11.1	53
15	Crystal Structure, Phase Transitions, and Magnetic Properties of Iridium Perovskites Sr ₂ MiRO ₆ (M = Ni, Zn). <i>Inorganic Chemistry</i> , 2013, 52, 11013-11022.	1.9	51
16	Switching from ferro- to antiferromagnetism in A ₂ CrSbO ₆ (A = Ca, Sr) double perovskites: a neutron diffraction study. <i>Journal of Materials Chemistry</i> , 2007, 17, 3555.	6.7	49
17	Magnetic Interactions in the Double Perovskites R ₂ NiMnO ₆ (R = Tb, Ho, Er, Tm) Investigated by Neutron Diffraction. <i>Inorganic Chemistry</i> , 2015, 54, 10890-10900.	1.9	49
18	Mn ₂ MnReO ₆ : Synthesis and Magnetic Structure Determination of a New Transition-Metal-Only Double Perovskite Canted Antiferromagnet. <i>Chemistry of Materials</i> , 2016, 28, 3148-3158.	3.2	45

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19	Magnetic Structure Stabilized Polarization in an Above-Room-Temperature Ferrimagnet. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10774-10778.	7.2	44
20	Synthesis, structure and magnetic properties of the new double perovskite Ca ₂ CrSbO ₆ . <i>Solid State Communications</i> , 2006, 139, 19-22.	0.9	42
21	Study of the valence state and electronic structure in Sr ₂ FeMO ₆ (M = W, Mo, Re and Sb) double perovskites. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13616.	1.3	41
22	Magnetostriction-polarization coupling in multiferroic Mn ₂ MnWO ₆ . <i>Nature Communications</i> , 2017, 8, 2037.	5.8	40
23	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
24	Effects of support and reaction pressure for the synthesis of dimethyl ether over heteropolyacid catalysts. <i>Scientific Reports</i> , 2020, 10, 8551.	1.6	36
25	Study of the evolution of FeN/C and Fe ₃ C species in Fe/N/C catalysts during the oxygen reduction reaction in acid and alkaline electrolyte. <i>Journal of Power Sources</i> , 2021, 490, 229487.	4.0	34
26	Crystal and Magnetic Structure of Sr ₂ MReO ₆ (M = Ni, Co, Zn) Double Perovskites: A Neutron Diffraction Study. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 588-595.	1.0	33
27	Crystal and Magnetic Structure of Sr ₂ MlrO ₆ (M = Ca, Mg) Double Perovskites – A Neutron Diffraction Study. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 178-185.	1.0	33
28	High-pressure synthesis of Mg ₂ FeH ₆ complex hydride. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7835-7841.	3.8	32
29	Polar and Magnetic Layered A-Site and Rock Salt B-Site-Ordered NaLnFeWO ₆ (Ln = La, Nd) Perovskites. <i>Inorganic Chemistry</i> , 2013, 52, 12482-12491.	1.9	28
30	Evidences of the presence of different types of active sites for the oxygen reduction reaction with Fe/N/C based catalysts. <i>Journal of Power Sources</i> , 2016, 327, 204-211.	4.0	28
31	Curie temperature enhancement in partially disordered Sr ₂ FeReO ₆ double perovskites. <i>Materials Research Bulletin</i> , 2009, 44, 1261-1264.	2.7	27
32	Mesoporous Materials: From Synthesis to Applications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3213.	1.8	27
33	Fe doped porous triazine as efficient electrocatalysts for the oxygen reduction reaction in acid electrolyte. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118507.	10.8	27
34	Half-Metallicity in Pb ₂ CoReO ₆ Double Perovskite and High Magnetic Ordering Temperature in Pb ₂ CrReO ₆ Perovskite. <i>Chemistry of Materials</i> , 2015, 27, 4450-4458.	3.2	26
35	Mn ₂ (Fe _{0.8} Mo _{0.2})MoO ₆ : A Double Perovskite with Multiple Transition Metal Sublattice Magnetic Effects. <i>Chemistry of Materials</i> , 2018, 30, 4508-4514.	3.2	25
36	High-pressure synthesis of Na _{1-x} Li _x MgH ₃ perovskite hydrides. <i>Journal of Alloys and Compounds</i> , 2012, 522, 101-105.	2.8	23

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37	High-pressure synthesis, crystal structure and cyclability of the Mg ₂ NiH ₄ hydride. International Journal of Hydrogen Energy, 2013, 38, 5738-5745.	3.8	22
38	Magnetic ground state and magnon-phonon interaction in multiferroic YMnO_3 . Physical Review B, 2018, 97, .	1.1	22
39	Low-temperature Cationic Rearrangement in a Bulk Metal Oxide. Angewandte Chemie - International Edition, 2016, 55, 9862-9867.	7.2	20
40	Pb ₂ MnTeO ₆ Double Perovskite: An Antipolar Anti-ferromagnet. Inorganic Chemistry, 2016, 55, 4320-4329.	1.9	20
41	Study of catalyst bed composition for the direct synthesis of dimethyl ether from CO ₂ -rich syngas. Chemical Engineering Journal Advances, 2020, 4, 100039.	2.4	20
42	Crystal Structure and Magnetism of the 6H Hexagonal Double Perovskites Ba ₂ FeSbO ₆ and Ba ₂ CoSbO ₆ : A Neutron Diffraction and Mössbauer Spectroscopy Study. European Journal of Inorganic Chemistry, 2008, 2008, 2286-2294.	1.0	19
43	Ferromagnetic behavior in La(Cu _{1-x} Mn _x)Mn ₄ O ₁₂ (x=1,2) perovskites. Journal of Applied Physics, 2008, 104, 083911.	1.1	19
44	Magnetic and Structural Studies of the Multifunctional Material SrFe _{0.75} Mo _{0.25} O ₃ . Inorganic Chemistry, 2012, 51, 12273-12280.	1.9	19
45	Synthesis, crystal structure, and properties of KSbO ₃ -type Bi ₃ Mn _{1.9} Te _{1.1} O ₁₁ . Journal of Solid State Chemistry, 2013, 197, 543-549.	1.4	19
46	Dynamic Ferrimagnetic Order in a Highly Distorted Double Perovskite Y ₂ CoRuO ₆ . Chemistry of Materials, 2018, 30, 7047-7054.	3.2	19
47	Stabilization and Study of SrFe _{1-x} Mn _x O ₂ Oxides with Infinite-Layer Structure. Inorganic Chemistry, 2011, 50, 10929-10936.	1.9	17
48	Double perovskite Sr ₂ FeMoO _{6-x} N _x (x=0.3, 1.0) oxynitrides with anionic ordering. Journal of Solid State Chemistry, 2012, 185, 18-24.	1.4	17
49	Crystal and Magnetic Structure of Sr ₂ BiRO ₆ (B = Sc, Ti, Fe, Co, In) in the Framework of Multivalent Iridium Double Perovskites. European Journal of Inorganic Chemistry, 2015, 2015, 5027-5038.	1.0	17
50	Strong Electron Hybridization and Fermi-to-Non-Fermi Liquid Transition in LaCu ₃ Ir ₄ O ₁₂ . Chemistry of Materials, 2015, 27, 211-217.	3.2	16
51	Structural and magnetotransport features in new electron-doped Sr _{2-x} Ce _x FeMoO ₆ double perovskites. Journal of Materials Chemistry, 2006, 16, 865-873.	6.7	15
52	Neutron Powder Diffraction, x-ray absorption and Mössbauer Spectroscopy on Mg ₂ FeH ₆ . International Journal of Hydrogen Energy, 2015, 40, 9306-9313.	3.8	15
53	Magnetoelectric excitations in multiferroic $\text{Ni}_3\text{Te}_3\text{O}_{12}$. Physical Review B, 2017, 95, .	1.1	15
54	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

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55	Enhanced stability of SrRuO ₃ mixed oxide via monovalent doping in Sr _{1-x} K _x RuO ₃ for the oxygen evolution reaction. Journal of Power Sources, 2022, 521, 230950.	4.0	15
56	Structural and magnetic characterization of BiFe _{1-x} Mn _{2x} O ₅ oxides (x=0.5, 1.0). Journal of Solid State Chemistry, 2011, 184, 2428-2433.	1.4	14
57	Synthesis and study of the crystallographic and magnetic structure of DyFeMnO ₅ : A new ferrimagnetic oxide. Journal of Solid State Chemistry, 2008, 181, 2155-2160.	1.4	13
58	Crystal structure and magnetism of YbFeMnO ₅ : A neutron diffraction and Mössbauer spectroscopy study. Solid State Communications, 2009, 149, 540-545.	0.9	13
59	Crystal structure and bond valence of CaH ₂ from neutron powder diffraction data. Zeitschrift Fur Kristallographie - Crystalline Materials, 2010, 225, 225-229.	0.4	13
60	Simplified mechano-synthesis procedure of Mg ₂ NiH ₄ . International Journal of Hydrogen Energy, 2012, 37, 4188-4193.	3.8	13
61	Infrared study of the electrooxidation of ethanol in alkaline electrolyte with Pt/C, PtRu/C and Pt ₃ Sn. Electrochimica Acta, 2019, 319, 312-322.	2.6	13
62	Co-doped Sr ₂ FeMoO ₆ double perovskites: A plausible scenario for phase segregation. Physical Review B, 2006, 73, .	1.1	12
63	High-pressure synthesis of the double perovskite Sr ₂ FeMoO ₆ : increment of the cationic ordering and enhanced magnetic properties. Journal of Physics Condensed Matter, 2009, 21, 186003.	0.7	12
64	High magnetic ordering temperature in the perovskites Sr _{4-3x} LaxFe ₃ ReO ₁₂ (x=0.0, 1.0, 2.0). Journal of Solid State Chemistry, 2012, 194, 48-58.	1.4	12
65	Post-synthesis Treatment of TS-1 with TPAOH: Effect of Hydrophobicity on the Liquid-Phase Oxidation of Furfural to Maleic Acid. Topics in Catalysis, 2019, 62, 560-569.	1.3	12
66	Effect of the Thermal Treatment of Fe/N/C Catalysts for the Oxygen Reduction Reaction Synthesized by Pyrolysis of Covalent Organic Frameworks. Industrial & Engineering Chemistry Research, 2021, 60, 18759-18769.	1.8	12
67	Crystal structure and spectroscopic properties of the polar antiferromagnet $NiMn_2Te_6O_{12}$. Physical Review B, 2018, 97, .	1.1	11
68	Crystal and magnetic study of the disordered perovskites Ca(Mn _{0.5} Sb _{0.5})O ₃ and Ca(Fe _{0.5} Sb _{0.5})O ₃ . Materials Research Bulletin, 2010, 45, 1449-1454.	2.7	10
69	Why MnIn ₂ O ₄ spinel is not a transparent conducting oxide?. Journal of Solid State Chemistry, 2012, 187, 172-176.	1.4	10
70	Hole Doping and Structural Transformation in CsTl _{1-x} Hg _x Cl ₃ . Inorganic Chemistry, 2015, 54, 1066-1075.	1.9	10
71	Nickel ferrite supported on calcium-stabilized zirconia for solar hydrogen production by two-step thermochemical water splitting. Materials Today Energy, 2017, 6, 248-254.	2.5	10
72	Catalysts of ceria supported on copper-chromium oxide: Ceria promotion of the CO-PROX activity. International Journal of Hydrogen Energy, 2021, 46, 38712-38723.	3.8	10

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73	Synthesis, structural study and magnetic properties of TbFeMnO ₅ . Solid State Communications, 2010, 150, 1831-1836.	0.9	9
74	Field-induced magnetic incommensurability in multiferroic $\text{Ni}_3\text{Mn}_2\text{O}_{11}$. Physical Review B, 2020, 101, .	1.1	9
75	Dynamical properties of the polar antiferromagnets $\text{Ni}_3\text{Mn}_2\text{O}_{11}$ and $\text{Co}_3\text{Mn}_2\text{O}_{11}$. Physical Review B, 2020, 101, .	1.1	9
76	High-pressure synthesis and neutron diffraction investigation of the crystallographic and magnetic structure of TeNiO ₃ perovskite. Dalton Transactions, 2011, 40, 4599.	1.6	8
77	Universal A-Cation Splitting in LiNbO ₃ -Type Structure Driven by Intrapositional Multivalent Coupling. Journal of the American Chemical Society, 2020, 142, 7168-7178.	6.6	7
78	Synthesis, magnetic properties, and neutron diffraction study of the complex perovskites R(Cu _{3-x} Mnx)Mn ₄ O ₁₂ (R=Pr, Nd and x=1,2). Journal of Applied Physics, 2010, 108, 083905.	1.1	6
79	The Ho ₂ MnRuO ₇ pyrochlore oxide: Magnetic structure versus magnetic frustration. Journal of Applied Physics, 2010, 107, 093919.	1.1	6
80	Evolution of the crystal and magnetic structure of the R ₂ MnRuO ₇ (R = Tb, Dy, Ho, Er, Tm, Yb, Lu, and Y) family of pyrochlore oxides. Dalton Transactions, 2012, 41, 8575.	1.6	6
81	Crystal and magnetic structures of the complex perovskites LaCu ₃ (Mn ₄) ₂ Tj ETQq1 1 0.784314 rgBT / Crystallographie - Crystalline Materials, 2010, 225, 201-208.	0.4	5
82	Evolution of cobalt spin states and magnetic coupling along the SrCo _{1-x} SbxO ₃ system: correlation with the crystal structure. Physical Chemistry Chemical Physics, 2011, 13, 12835.	1.3	5
83	Influence of Polymorphism on the Magnetic Properties of Co ₅ TeO ₈ Spinel. Inorganic Chemistry, 2021, 60, 13990-14001.	1.9	5
84	A Structural and Magnetic Study of the Series of Double Perovskites Ca ₂ Fe _{1+x} W _{1-x} O ₆ . European Journal of Inorganic Chemistry, 2009, 2009, 3750-3757.	1.0	4
85	Preparation, structural and magnetic characterization of DyCrMnO ₅ . Journal of Solid State Chemistry, 2009, 182, 532-537.	1.4	4
86	Correlation between the crystal structure and the Curie temperature in RCu ₃ (Mn ₃ Fe)O ₁₂ (R =) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 22	1.6	4
87	The Magnetotransport Properties and a Neutron Diffraction Study of Sr _{2-x} NdxFeMoO ₆ Double Perovskites. European Journal of Inorganic Chemistry, 2009, 2009, 1103-1109.	1.0	3
88	Ru ²⁺ -Ru Metal ²⁺ -Metal Bonding in the Chains of Edge-sharing Octahedra of NdMn _{1.5} Ru _{0.5} O ₅ : A Neutron Powder Diffraction and Magnetic Study. European Journal of Inorganic Chemistry, 2010, 2010, 781-789.	1.0	3
89	High-pressure preparation and characterization of new metastable oxides: the case of NdCu ₃ Mn ₃ MO ₁₂ (M = Fe, Cr). Journal of Physics: Conference Series, 2011, 325, 012002.	0.3	3
90	Deuteration properties of CaNi _{5-x} Cux system. Journal of Power Sources, 2011, 196, 4342-4346.	4.0	3

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91	Ferromagnetic Cu ²⁺ -O ²⁻ Cu coupling in CaCu ₃ Sn ₄ O ₁₂ probed by neutron diffraction. Journal of Physics Condensed Matter, 2012, 24, 496002.	0.7	3
92	Influence of the Bi ³⁺ -electron lone pair in the evolution of the crystal and magnetic structure of La _{1-x} Bi _x Mn ₂ O ₅ oxides. Journal of Physics Condensed Matter, 2013, 25, 216002.	0.7	3
93	On the Sr _{1-x} Ba _x FeO ₂ F Oxyfluoride Perovskites: Structure and Magnetism from Neutron Diffraction and Mössbauer Spectroscopy. Materials, 2016, 9, 970.	1.3	3
94	Low-Temperature Cationic Rearrangement in a Bulk Metal Oxide. Angewandte Chemie, 2016, 128, 10016-10021.	1.6	3
95	Electrooxidation of ethanol and acetaldehyde in neutral electrolyte, an infrared study. Journal of Electroanalytical Chemistry, 2022, 908, 115968.	1.9	3
96	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. Solid State Sciences, 2018, 80, 72-80.	1.5	2
97	HIGH-PRESSURE SYNTHESIS AND CHARACTERIZATION OF NEW METASTABLE OXIDES. Functional Materials Letters, 2011, 04, 333-336.	0.7	1
98	Crystallographic and magnetic properties of Pb _{2-x} Bi _x Ir ₂ O ₇ (0 ≤ x ≤ 2)O ₈ . Materials Research Express, 2014, 1, 046304.		1
99	Mixed valence of iron inside tetrahedral and pseudopyramids in BiFe ₂ O ₅ . Physical Review B, 2012, 85, .	1.1	0
100	Frontispiz: Low-Temperature Cationic Rearrangement in a Bulk Metal Oxide. Angewandte Chemie, 2016, 128, .	1.6	0
101	Frontispiece: Low-Temperature Cationic Rearrangement in a Bulk Metal Oxide. Angewandte Chemie - International Edition, 2016, 55, .	7.2	0
102	Magnetolectric Excitations in Polar Antiferromagnetic Nickel Tellurates Substituted by Mn and Co. , 2019, , .		0
103	Metal-containing heteroatom doped carbon nanomaterials for ORR, OER, and HER. , 2022, , 169-211.		0