

Angel M Arevalo Lopez

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,535
citations

304743

22
h-index

361022

35
g-index

103
all docs

103
docs citations

103
times ranked

1767
citing authors

#	ARTICLE	IF	CITATIONS
1	Magneto-thermal and dielectric properties of biferroic YCrO ₃ prepared by combustion synthesis. Journal of Solid State Chemistry, 2010, 183, 1863-1871.	2.9	88
2	Large Magnetization and Frustration Switching of Magnetoresistance in the Double Perovskite Ferrimagnet Mn ₂ FeReO ₆ . Angewandte Chemie - International Edition, 2015, 54, 12074-12077.	13.8	72
3	Incommensurate spin order in the metallic perovskite MnVO ₃ . Physical Review B, 2011, 84, .	3.2	64
4	Magnetic frustration in lead pyrochlores. Physical Review B, 2015, 91, .	3.2	63
5	Chemical pressure effects on magnetism in the quantum spin liquid candidates Yb ₂ X ₂ O ₇ . Physical Review B, 2015, 91, .		

#	ARTICLE	IF	CITATIONS
19	Spinel to CaFe_2O_4 Transformation: Mechanism and Properties of $\text{Fe}_2\text{CdCr}_2\text{O}_4$. Inorganic Chemistry, 2010, 49, 2827-2833.	4.0	29
20	Antiferromagnetism and Spin Reorientation in PbCrO_3 . Inorganic Chemistry, 2009, 48, 5434-5438.	4.0	28
21	Spin-orbit transitions in Fe^{2+} and Fe^{3+} . Physical Review B, 2015, 92, .	3.2	26
22	Complex Ferrimagnetism and Magnetoresistance Switching in Ca-Based Double Double and Triple Double Perovskites. Chemistry of Materials, 2017, 29, 8870-8874.	6.7	23
23	Increasing the Structural Complexity of Chromium(IV) Oxides by High-Pressure and High-Temperature Reactions of CrO_2 . Inorganic Chemistry, 2008, 47, 8526-8542.	4.0	22
24	Anisotropic magnetic structures of the high-pressure doubly ordered perovskites (Mn_2R). Physical Review B, 2018, 97, .	3.2	22
25	Long range electronic phase separation in CaFe_3O_5 . Nature Communications, 2018, 9, 2975.	12.8	22
26	Incipient Ferromagnetism in Tb_2O_7 . Application of Chemical Pressure to the Enigmatic Spin-L. Physical Review Letters, 2014, 113, 267205.	3.5	21
27	antiferromagnet $\text{Er}_2\text{Ge}_2\text{O}_7$. Physical Review B, 2014, 89, .	3.2	21
28	Pressure-induced chemistry for the 2D to 3D transformation of zeolites. Journal of Materials Chemistry A, 2018, 6, 5255-5259.	10.3	21
29	Ferri- and ferro-magnetism in CaMnMReO_6 double double perovskites of late transition metals $M = \text{Co}$ and Ni . Chemical Communications, 2019, 55, 2605-2608.	4.1	19
30	Electron energy loss spectroscopy in ACrO_3 ($A = \text{Ca}, \text{Sr}$ and Pb) perovskites. Journal of Physics Condensed Matter, 2008, 20, 505207.	1.8	17
31	Ordered magnetism in the intrinsically decorated CoV_3O_8 . Physical Review B, 2018, 98, .	3.2	16
32	Magnetic frustration in the high-pressure $\text{Mn}_2\text{MnTeO}_6$ (Mn_3TeO_6 -II) double perovskite. Chemical Communications, 2019, 55, 14470-14473.	4.1	16
33	Nonmagnetic spin-singlet dimer formation and coupling to the lattice in the 6H perovskite $\text{Ba}_3\text{CaRu}_2\text{O}_9$. Journal of Physics Condensed Matter, 2013, 25, 496008.	1.8	15
34	The A(II)Cr(IV)O_3 ($A = \text{Sr}, \text{Ca}, \text{Pb}$) perovskites. Structure and properties: magnetic structure of CaCrO_3 . High Pressure Research, 2009, 29, 254-260.	1.2	14
35	Structural Percolation in the $\text{PbM}_1\text{M}_2\text{O}_3$ ($M, M_2 = \text{Ti}, \text{Cr},$ and V) Perovskites. Inorganic Chemistry, 2011, 50, 7136-7141.	4.0	14
36	$(\text{C}_4\text{H}_{12}\text{N}_2)[\text{CoCl}_4]$: tetrahedrally coordinated Co^{2+} without the orbital degeneracy. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 20-24.	1.1	14

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55	Spin-phonon coupling in melanothallite Cu ₂ OCl ₂ . Applied Physics Letters, 2018, 113, .	3.3	8
56	Relaxing Kondo-screened Kramers doublets in CeRhSi . Physical Review B, 2019, 99, .	3.2	8
57	Double Double Cation Order in the High-Pressure Perovskites MnRMnSbO ₆ . Angewandte Chemie, 2016, 128, 9486-9490.	2.0	7
58	Lock-in spin structures and ferrimagnetism in polar Ni _{2-x} Co _x ScSbO ₆ oxides. Chemical Communications, 2018, 54, 12523-12526.	4.1	7
59	Mn ₃ MnNb ₂ O ₉ : high-pressure triple perovskite with 2 B-site order and modulated spins. Chemical Communications, 2021, 57, 8441-8444.	4.1	7
60	Complex magnetism in Ni ₃ TeO ₆ -type Co ₃ TeO ₆ and high-pressure polymorphs of Mn ₃ Co _x TeO ₆ solid solutions. Chemical Communications, 2021, 57, 2511-2514.	4.1	7
61	Quantum spin system (CuBr)Sr ₂ Nb ₃ O ₁₀ . Physical Review B, 2020, 102, .	3.2	6
62	Frustration wave order in iron(II) oxide spinels. Communications Physics, 2018, 1, .	5.3	6
63	The hidden story in BaNiO ₃ to BaNiO ₂ transformation: adaptive structural series and NiO exsolution. Chemical Communications, 2019, 55, 3717-3720.	4.1	6
64	Synthesis, structure and magnetic behavior of iron arsenites with hierarchical magnetic units. Inorganic Chemistry Frontiers, 2020, 7, 3987-3999.	6.0	6
65	Pressure suppression of charge order without metallisation in Cs ₂ Au ₂ I ₆ . Chemical Communications, 2010, 46, 6681.	4.1	5
66	High-pressure BaCrO ₃ polytypes and the 5H-BaCrO _{2.8} phase. Journal of Solid State Chemistry, 2015, 232, 236-240.	2.9	5
67	Spin order in the charge disproportionated phases of the A-site layer ordered triple perovskite LaCa ₂ Fe ₃ O ₉ . Physical Review B, 2018, 97, .	3.2	5
68	Metastable and localized Ising magnetism in CoV_2O_6 magnetization plateaus. Physical Review B, 2020, 102, .	3.2	5
69	From (<i>S</i> = 1) Spin Hexamer to Spin Tetradecamer by CuO Interstitials in A ₂ Cu ₃ O(CuO) _x (SO ₄) ₃ (A = alkali). Inorganic Chemistry, 2021, 60, 18185-18191.	4.0	5
70	Interelectronic repulsions versus lanthanide contraction: a challenge within the high-pressure synthesis of the MSr ₂ RECu ₂ O ₈ family of compounds. High Pressure Research, 2008, 28, 525-529.	1.2	4
71	Hard-soft chemistry of Sr _{1-x} Ca _x CrO ₃ solid solutions. Materials Chemistry Frontiers, 2017, 1, 172-175.	5.9	4
72	YRuO ₃ : A quantum weak ferromagnet. Physical Review Materials, 2020, 4, .	2.4	4

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73	Disorder-Induced Structural Complexity in the Barlowite Family of $S = 1/2$ Kagomé Magnets. <i>Chemistry of Materials</i> , 2021, 33, 9638-9651.	6.7	4
74	Mössbauer study of the $(\text{Ru}_{1-x}\text{Fe}_x)\text{Sr}_2\text{GdCu}_2\text{O}_{8-\delta}$ system and two of its possible impurities: SrRuO_3 and Gd_2CuO_4 . <i>Hyperfine Interactions</i> , 2006, 171, 293-303.	0.5	3
75	Bistability and relaxor ferrimagnetism in off-stoichiometric NiCrO_3 . <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 293-299.	2.3	3
76	Polymorphs, phase transitions and stability in $\text{BaM}_2(\text{PO}_4)_2$ $M = \text{Mn, Fe, Co}$ systems. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 239-246.	6.0	3
77	Hybrid electrons in the trimerized GaV_4O_8 . <i>Materials Horizons</i> , 2021, 8, 2325-2329.	12.2	3
78	Synthesis, structural and magnetic disordering in the $\text{IrSr}_2\text{RECu}_2\text{O}_{8+x}$ family of metalo-cuprates by HP+HT oxidation. <i>High Pressure Research</i> , 2010, 30, 17-23.	1.2	2
79	High pressure exploration in the $\text{Li}^+\text{Ln}^{\text{IV}}\text{O}$ system. <i>Dalton Transactions</i> , 2020, 49, 13663-13670.	3.3	2
80	Spin structures and band gap reduction of high-pressure triple perovskite $\text{Mn}_3\text{MnTa}_2\text{O}_9$. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14916-14920.	5.5	2
81	A high dimensional oxysulfide built from large iron-based clusters with partial charge-ordering. <i>Chemical Communications</i> , 2021, 57, 11859-11862.	4.1	2
82	Abrupt Negative Thermal Expansion and Magnetic Structure of V_3O_5 . <i>Chemistry of Materials</i> , 2022, 34, 5294-5300.	6.7	2
83	A Study of $[\text{Cr-O}_6]$ -based rutile analogues by means of EELS. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1148, 1.	0.1	1
84	Magnetic Structures of $\text{Mn}_{11}\text{Ta}_4\text{O}_{21}$ and Interpretation as an Hexagonal A-site Manganite. <i>Inorganic Chemistry</i> , 2020, 59, 13128-13135.	4.0	1
85	Cycloidal Magnetic Order Promoted by Labile Mixed Anionic Paths in $\text{M}_2(\text{SeO}_3)_2\text{F}_2$ ($M = \text{Mn}^{2+}, \text{Ni}^{2+}$). <i>Inorganic Chemistry</i> , 2021, 60, 12001-12008.	4.0	1
86	All-Magnetic Slabs and Multiferroism in $(\text{Bi}_x\text{O}_2)(\text{M}_4\text{F}_4)$ Aurivillius Oxyfluorides ($M = \text{Fe}$ and Ni). <i>Chemistry of Materials</i> , 2022, 34, 5706-5716.	6.7	1
87	Solid solutions of the $\text{Pb}_{1-x}\text{M}_x\text{IV}_3\text{O}_{12}$ ($M, \text{M}^{2+} = \text{Tl}, \text{Tl}, \text{Pb}$) $0 \leq x \leq 1$. <i>Chemistry of Materials</i> , 2008, 20, 509-513.	1.2	0.784
88	Unconventional magnetic order in GeFe_2O_4 . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C91-C91.	0.1	0
89	Multiple orders in high pressure perovskites. <i>Journal of Physics: Conference Series</i> , 2017, 950, 032002.	0.4	0
90	Preparation, characterization and DFT+U study of the polar Fe^{3+} -based phase $\text{Ba}_5\text{Fe}_2\text{ZnIn}_4\text{S}_{15}$ containing $S = 5/2$ zigzag chains. <i>Dalton Transactions</i> , 0, , .	3.3	0