

Angel M Arevalo Lopez

List of Publications by Year in descending order

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304743

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103
docs citations

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times ranked

1767
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant coercivity and spin clusters in high pressure polymorphs of $\text{Mn}_2\text{LiReO}_6$. Journal of Materials Chemistry C, 2022, 10, 4336-4341.	5.5	9
2	Abrupt Negative Thermal Expansion and Magnetic Structure of V_3O_5 . Chemistry of Materials, 2022, 34, 5294-5300.	6.7	2
3	All-Magnetic Slabs and Multiferroism in $(\text{Bi}_x\text{O}_2)(\text{M}_4) \text{ Aurivillius } (\text{M} = \text{Fe and Ni})$. Chemistry of Materials, 2022, 34, 5706-5716.	6.7	1
4	Hybrid electrons in the trimerized GaV_4O_8 . Materials Horizons, 2021, 8, 2325-2329.	12.2	3
5	$\text{Mn}_3\text{MnNb}_2\text{O}_9$: high-pressure triple perovskite with 100% B-site order and modulated spins. Chemical Communications, 2021, 57, 8441-8444.	4.1	7
6	Complex magnetism in Ni_3TeO_6 -type Co_3TeO_6 and high-pressure polymorphs of $\text{Mn}_3\text{Co}_x\text{TeO}_6$ solid solutions. Chemical Communications, 2021, 57, 2511-2514.	4.1	7
7	$S = 1/2$ Chain in BiVO_3F : Spin Dimers versus Photoanodic Properties. Journal of the American Chemical Society, 2021, 143, 6942-6951.	13.7	10
8	Cycloidal Magnetic Order Promoted by Labile Mixed Anionic Paths in $\text{M}_2(\text{SeO}_3)_2\text{F}_2$ ($\text{M} = \text{Mn}^{2+}, \text{Ni}^{2+}$). Inorganic Chemistry, 2021, 60, 12001-12008.	4.0	1
9	Spin structures and band gap reduction of high-pressure triple perovskite $\text{Mn}_3\text{MnTa}_2\text{O}_9$. Journal of Materials Chemistry C, 2021, 9, 14916-14920.	5.5	2
10	A high dimensional oxysulfide built from large iron-based clusters with partial charge-ordering. Chemical Communications, 2021, 57, 11859-11862.	4.1	2
11	From $S = 1$ Spin Hexamer to Spin Tetradecamer by CuO Interstitials in $\text{A}_2\text{Cu}_3\text{O}(\text{CuO})_x(\text{SO}_4)_3$ ($\text{A} = \text{alkali}$). Inorganic Chemistry, 2021, 60, 18185-18191.	4.0	5
12	Disorder-Induced Structural Complexity in the Barlowite Family of $S = 1/2$ Kagomé Magnets. Chemistry of Materials, 2021, 33, 9638-9651.	6.7	4
13	Polymorphs, phase transitions and stability in $\text{BaM}_2(\text{PO}_4)_2$ $\text{M} = \text{Mn, Fe, Co}$ systems. Inorganic Chemistry Frontiers, 2020, 7, 239-246.	6.0	3
14	Magnetic Structures of $\text{Mn}_{11}\text{Ta}_4\text{O}_{21}$ and Interpretation as an Hexagonal A-site Manganite. Inorganic Chemistry, 2020, 59, 13128-13135.	4.0	1
15	High pressure exploration in the LiLnVO system. Dalton Transactions, 2020, 49, 13663-13670.	3.3	2
16	Synthesis, structure and magnetic behavior of iron arsenites with hierarchical magnetic units. Inorganic Chemistry Frontiers, 2020, 7, 3987-3999.	6.0	6
17	Metastable and localized Ising magnetism in CoV_2O_6 magnetization plateaus. Physical Review B, 2020, 102, .	3.2	5
18	Spin-phonon coupling in monoclinic BiCrO_3 . Journal of Applied Physics, 2020, 127, .	2.5	10

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19	Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO_3 . Journal of the American Chemical Society, 2020, 142, 5731-5741.	13.7	35
20	Oxysulfide $\text{Ba}_5(\text{VO}_2\text{S}_2)_2(\text{S}_2)_2$ Combining Disulfide Channels and Mixed-Anion Tetrahedra and Its Third-Harmonic-Generation Properties. Inorganic Chemistry, 2020, 59, 5907-5917.	4.0	10
21	Evolution of cation and spin orders in the double- $\text{A}^{\text{B}}\text{B}'_2\text{O}_6$ double-double perovskite series $\langle \text{Ca} \rangle \langle \text{Ni} \rangle \langle \text{Mn} \rangle$. Physical Review Materials, 2020, 4, .		
22	YRuO_3 : A quantum weak ferromagnet. Physical Review Materials, 2020, 4, .	2.4	4
23	Metamagnetic Transitions versus Magnetocrystalline Anisotropy in Two Cobalt Arsenates with 1D Co^{2+} Chains. Inorganic Chemistry, 2019, 58, 12609-12617.	4.0	10
24	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
25	Relaxing Kondo-screened Kramers doublets in CeRhSi . Physical Review B, 2019, 99, .	3.2	8
26	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
27	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
28	Anisotropic magnetic structures of the high-pressure doubly ordered perovskites ($\text{Tj ETQqO}_0\text{O rgBT /Overlock 10 Tf 50 382 Td}$) Physical Review B, 2018, 97, .	3.2	22
29	Cation, magnetic, and charge ordering in MnFe_3O_5 . Journal of Materials Chemistry C, 2018, 6, 3271-3275.	5.5	14
30	Spin order in the charge disproportionated phases of the A-site layer ordered triple perovskite $\text{LaCa}_2\text{Fe}_3\text{O}_9$. Physical Review B, 2018, 97, .	3.2	5
31	Pressure-induced chemistry for the 2D to 3D transformation of zeolites. Journal of Materials Chemistry A, 2018, 6, 5255-5259.	10.3	21
32	Lock-in spin structures and ferrimagnetism in polar $\text{Ni}_2\text{Co}_x\text{ScSbO}_6$ oxides. Chemical Communications, 2018, 54, 12523-12526.	4.1	7
33	Isovalent Cation Ordering in the Polar Rhombohedral Perovskite $\text{Bi}_2\text{FeAlO}_6$. Angewandte Chemie - International Edition, 2018, 57, 16099-16103.	13.8	10
34	Spin-phonon coupling in melanothallite Cu_2OCl_2 . Applied Physics Letters, 2018, 113, .	3.3	8
35	Frustration wave order in iron(II) oxide spinels. Communications Physics, 2018, 1, .	5.3	6
36	Ordered magnetism in the intrinsically decorated CoV_3O_8 . Physical Review B, 2018, 98, .	3.2	16

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37	Evolving spin periodicity and lock-in transition in the frustrated ordered ilmenite-type $\text{Sr}_{1-x}\text{Ca}_x\text{CrO}_3$ solid solutions. Physical Review B, 2018, 98, .		
38	Long range electronic phase separation in CaFe_3O_5 . Nature Communications, 2018, 9, 2975.	12.8	22
39	Complex Ferrimagnetism and Magnetoresistance Switching in Ca-Based Double Double and Triple Double Perovskites. Chemistry of Materials, 2017, 29, 8870-8874.	6.7	23
40	Bistability and relaxor ferrimagnetism in off-stoichiometric NiCrO_3 . Journal of Magnetism and Magnetic Materials, 2017, 443, 293-299.	2.3	3
41	Hard "soft chemistry of $\text{Sr}_{1-x}\text{Ca}_x\text{CrO}_3$ solid solutions. Materials Chemistry Frontiers, 2017, 1, 172-175.	5.9	4
42	Unconventional magnetic order in GeFe_2O_4 . Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C91-C91.	0.1	0
43	Multiple orders in high pressure perovskites. Journal of Physics: Conference Series, 2017, 950, 032002.	0.4	0
44	Double Double Cation Order in the High-Pressure Perovskites MnRMnSbO_6 . Angewandte Chemie, 2016, 128, 9486-9490.	2.0	7
45	Double Double Cation Order in the High-Pressure Perovskites MnRMnSbO_6 . Angewandte Chemie - International Edition, 2016, 55, 9340-9344.	13.8	48
46	XY antiferromagnetic ground state in the effective $\text{S}=\text{O}$ YbMn_2O_7 . Physical Review B, 2016, 93, .		
47	Competing antiferromagnetic orders in the double perovskite $\text{Mn}_2\text{MnReO}_6$ (Mn_3ReO_6). Chemical Communications, 2016, 52, 5558-5560.	4.1	31
48	Magnetic frustration in lead pyrochlores. Physical Review B, 2015, 91, .	3.2	63
49	Spin-orbit transitions in $\text{S}=\text{O}$ YbMn_2O_7 . Physical Review B, 2015, 92, .		
50	Large Magnetization and Frustration Switching of Magnetoresistance in the Double-Perovskite Ferrimagnet $\text{Mn}_2\text{FeReO}_6$. Angewandte Chemie - International Edition, 2015, 54, 12074-12077.	13.8	72
51	Crystal and magnetic structures of the brownmillerite $\text{Ca}_2\text{Cr}_2\text{O}_5$. Dalton Transactions, 2015, 44, 10661-10664.	3.3	12
52	($\text{C}_4\text{H}_{12}\text{N}_2$)[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
53	Titanium migration driven by Li vacancies in $\text{Li}_x\text{Ti}_2\text{O}_4$ spinel. Chemical Communications, 2015, 51, 11359-11361.	4.1	8
54	Stabilization of cubic $\text{Sr}_2\text{FeMoO}_6$ through topochemical reduction. Chemical Communications, 2015, 51, 12201-12204.	4.1	9

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55	High pressure synthesis of polar and non-polar cation-ordered polymorphs of $\text{Mn}_2\text{ScSbO}_6$. Dalton Transactions, 2015, 44, 20441-20448.	3.3	41
56	High-pressure BaCrO_3 polytypes and the $5\text{H}\text{BaCrO}_{2.8}$ phase. Journal of Solid State Chemistry, 2015, 232, 236-240.	2.9	5
57	Spin-Glass Behavior and Incommensurate Modulation in High-Pressure Perovskite $\text{BiCr}_{0.5}\text{Ni}_{0.5}\text{O}_3$. Inorganic Chemistry, 2015, 54, 832-836.	4.0	10
58	Incipient Ferromagnetism in Tb_2O_7 Application of Chemical Pressure to the Enigmatic Spin-Li. Physical Review Letters, 2014, 113, 267205.	2.8	21
59	High Pressure Synthesis of the Cation-ordered Perovskite $3\text{C}_{1:2}\text{Ba}_3\text{NaRu}_2\text{O}_9$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1164-1167.	1.2	8
60	Chemical pressure effects on magnetism in the quantum spin liquid candidates $\text{Yb}_2\text{X}_2\text{Mn}_2$		

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73	Microwave-assisted synthesis: A fast and efficient route to produce LaMO ₃ (M=Al, Cr, Mn, Fe, Co) perovskite materials. <i>Materials Research Bulletin</i> , 2011, 46, 222-230.	5.2	54
74	Incommensurate spin order in the metallic perovskite MnVO ₃ . <i>Physical Review B</i> , 2011, 84, .	3.2	64
75	Magneto-thermal and dielectric properties of biferroic YCrO ₃ prepared by combustion synthesis. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1863-1871.	2.9	88
76	Synthesis, structural and magnetic disordering in the IrSr ₂ RECu ₂ O _{8+x} family of metalo-cuprates by HP+HT oxidation. <i>High Pressure Research</i> , 2010, 30, 17-23.	1.2	2
77	Spinel to CaFe ₂ O ₄ Transformation: Mechanism and Properties of ¹²⁵ CdCr ₂ O ₄ . <i>Inorganic Chemistry</i> , 2010, 49, 2827-2833.	4.0	29
78	Pressure suppression of charge order without metallisation in Cs ₂ Au ₂ I ₆ . <i>Chemical Communications</i> , 2010, 46, 6681.	4.1	5
79	The A(II)Cr(IV)O ₃ (A=Sr, Ca, Pb) simple perovskites. Structure and properties: magnetic structure of CaCrO ₃ . <i>High Pressure Research</i> , 2009, 29, 254-260.	1.2	14
80	Antiferromagnetism and Spin Reorientation in PbCrO_3 . <i>Inorganic Chemistry</i> , 2009, 48, 5434-5438.	4.0	28
81	Reliable Method for Determining the Oxidation State in Chromium Oxides. <i>Inorganic Chemistry</i> , 2009, 48, 11843-11846.	4.0	36
82	Structure and microstructure of the high pressure synthesised misfit layer compound [Sr ₂ O ₂][CrO ₂] _{1.85} . <i>Journal of Solid State Chemistry</i> , 2008, 181, 1840-1847.	2.9	10
83	Electron energy loss spectroscopy in ACrO ₃ (A = Ca, Sr and Pb) perovskites. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 505207.	1.8	17
84	Solid solutions of the Pb _{1-x} (M _x) ₂ O ₃ (M, M ²⁺ =Ti, Zr, Hf) system. <i>Journal of Solid State Chemistry</i> , 2008, 28, 509-513.	1.2	0
85	Increasing the Structural Complexity of Chromium(IV) Oxides by High-Pressure and High-Temperature Reactions of CrO ₂ . <i>Inorganic Chemistry</i> , 2008, 47, 8526-8542.	4.0	22
86	A Study of [Cr-O ₆]-based rutile analogues by means of EELS. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1148, 1.	0.1	1
87	Interelectronic repulsions versus lanthanide contraction: a challenge within the high-pressure synthesis of the MSr ₂ RECu ₂ O ₈ family of compounds. <i>High Pressure Research</i> , 2008, 28, 525-529.	1.2	4
88	On the structure and microstructure of PbCrO_3 . <i>Journal of Solid State Chemistry</i> , 2007, 180, 3271-3279.	2.9	49
89	Mössbauer study of the (Ru _{1-x} Fe _x)Sr ₂ GdCu ₂ O ₈ - $\hat{\Gamma}$ system and two of its possible impurities: SrRuO ₃ and Gd ₂ CuO ₄ . <i>Hyperfine Interactions</i> , 2006, 171, 293-303.	0.5	3
90	Preparation, characterization and DFT+U study of the polar Fe ³⁺ -based phase Ba ₅ Fe ₂ ZnIn ₄ S ₁₅ containing S= 5/2 zigzag chains. <i>Dalton Transactions</i> , 0, .	3.3	0