

Martin Valldor

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/986494/publications.pdf>

Version: 2024-02-01

72
papers

1,855
citations

411340

20
h-index

299063

42
g-index

80
all docs

80
docs citations

80
times ranked

2747
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral Spin Liquid Ground State in $\text{YBaCo}_4\text{Mn}_3$ Physical Review X, 2022, 12, .		
2	The magnetic phase diagram of $\text{Sr}_2\text{Fe}_3\text{Ch}_2\text{O}_3$ (Ch = S, Se). Journal of Magnetism and Magnetic Materials, 2021, 532, 167936.	1.0	0
3	Tuning the electrochemical properties by anionic substitution of Li-rich antiperovskite $(\text{Li}_{2-x}\text{Fe}_x\text{S})_{1-x}\text{Se}_x\text{O}$ cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23095-23105.	5.2	7
4	Synthesis of $(\text{Li}_2\text{Fe}_{1-y}\text{Mn}_y)\text{SO}$ Antiperovskites with Comprehensive Investigations of $(\text{Li}_2\text{Fe}_{0.5}\text{Mn}_{0.5})\text{SO}$ as Cathode in Li-ion Batteries. Inorganic Chemistry, 2020, 59, 15626-15635.	1.9	10
5	A soft chemistry approach to the synthesis of single crystalline and highly pure $(\text{NH}_4)\text{CoF}_3$ for optical and magnetic investigations. Journal of Chemical Physics, 2020, 153, 104501.	1.2	1
6	Nanoparticle Arrays Having Directed Hybrid Topology via Covalent Self-Assembly of Iron Oxide and Silica Nanoparticles. ACS Applied Nano Materials, 2020, 3, 5936-5943.	2.4	3
7	Impact of inversion symmetry on a quasi-1D $\text{S}^{\text{I}}\text{S}^{\text{II}}$ system. Journal of Physics Condensed Matter, 2020, 32, 225802.	0.7	0
8	Pressure-induced collapse of large-moment magnetic order and localized-to-itinerant electronic transition in the host-guest compound Cs_2CoCl_6 . Physical Review B, 2020, 101, .	1.1	0
9	Ionothermal Synthesis Enables Access to 3D Open Framework Manganese Phosphates Containing Extra-Large 18-Ring Channels. Chemistry of Materials, 2019, 31, 7329-7339.	3.2	13
10	Layered TiCl_3 : Microsheets on YSZ Substrates for Ethylene Polymerization with Enhanced Activity. Chemistry of Materials, 2019, 31, 5305-5313.	3.2	5
11	Synthesis, Crystal Structure, and Optical Characterization of the Sulfide Chloride Oxide $\text{CsBa}_6\text{V}_4\text{S}_{12}\text{ClO}_4$ with a Near-Infrared Fluorescence. Inorganic Chemistry, 2019, 58, 14728-14733.	1.9	1
12	Chromium Trihalides CrX_3 (X = Cl, Br, I): Direct Deposition of Micro- and Nanosheets on Substrates by Chemical Vapor Transport. Advanced Materials Interfaces, 2019, 6, 1901410.	1.9	37
13	Ionothermal Synthesis, Structures, and Magnetism of Three New Open Framework Iron Halide-Phosphates. Inorganic Chemistry, 2019, 58, 13203-13212.	1.9	11
14	Simulation and synthesis of MoCl_3 nanosheets on substrates by short time chemical vapor transport. Nano Structures Nano Objects, 2019, 19, 100324.	1.9	12
15	Bichalcogenide Model Systems for Magnetic Chains with Variable Spin Sizes and Optional Crystallographic Inversion Symmetry. Inorganic Chemistry, 2019, 58, 11978-11982.	1.9	1
16	Neutron diffraction study and theoretical analysis of the antiferromagnetic order and the diffuse scattering in the layered kagome system $\text{CaBaCo}_4\text{Mn}_2\text{O}_7$. Physical Review B, 2018, 97, .	1.1	8
17	Magnetic structure of the swedenborgite $\text{CaBaCo}_4\text{Mn}_2\text{O}_7$ derived by unpolarized neutron diffraction and spherical neutron polarimetry. Physical Review B, 2018, 97, .	1.1	8
18	Air-Stable Gadolinium Precursors for the Facile Microwave-Assisted Synthesis of Gd_2O_3 Nanocontrast Agents for Magnetic Resonance Imaging. Crystal Growth and Design, 2018, 18, 633-641.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li ₂ Fe)SO. ACS Applied Energy Materials, 2018, 1, 6593-6599.	2.5	15
20	Extended Chemical Flexibility of Cubic Anti-Perovskite Lithium Battery Cathode Materials. Inorganic Chemistry, 2018, 57, 13296-13299.	1.9	11
21	Chemical vapor growth and delamination of RuCl_3 nanosheets down to the monolayer limit. Nanoscale, 2018, 10, 19014-19022.	2.8	36
22	Synthesis, Characterization, and Electrochemistry of Layered Chalcogenides LiCuCh ($\text{Ch} = \text{S, Se}$). Journal of the American Chemical Society, 2017, 139, 9645-9649.	1.9	2
23	Coexistence of spin ordering on ladders and spin dimer formation in a new-structure-type compound $\text{SrCo}_3\text{S}_2\text{O}_3$. Scientific Reports, 2017, 7, 43767.	1.6	8
24	Synthesis and characterization of sulfide oxide SrZnSO with strongly polar crystal structure. Journal of Solid State Chemistry, 2017, 246, 225-229.	1.4	23
25	Anti-Perovskite Li-Battery Cathode Materials. Journal of the American Chemical Society, 2017, 139, 9645-9649.	6.6	48
26	Magnetism on quasi-1-D lattices in novel non-centrosymmetric $\text{Ba}_3\text{CrVS}_4\text{O}_3$ and in centrosymmetric $\text{La}_3\text{TMWS}_3\text{O}_6$ ($\text{TM} = \text{Cr, Fe, Co}$). Journal of Magnetism and Magnetic Materials, 2017, 435, 126-135.	1.0	3
27	Canted Antiferromagnetism on Rectangular Layers of Fe^{2+} in Polymorphic CaFeSeO . Inorganic Chemistry, 2017, 56, 4271-4279.	1.9	7
28	Three Oxidation States of Manganese in the Barium Hexaferrite $\text{BaFe}_{12}\text{Mn}_x\text{O}_{19}$. Inorganic Chemistry, 2017, 56, 3861-3866.	1.9	57
29	Successive Phase Transitions in Fe^{2+} Ladder Compounds $\text{Sr}_2\text{Fe}_3\text{Ch}_2\text{O}_3$ ($\text{Ch} = \text{S, Se}$). Inorganic Chemistry, 2017, 56, 12606-12614.	1.9	9
30	Heteroleptic Complexes of the Tridentate Pyridine-tetrazolate Ligand. ChemistrySelect, 2017, 2, 5849-5859.	0.7	1
31	Long-Range Antiferromagnetic Order on Spin Ladders $\text{SrFe}_2\text{S}_2\text{O}$ and $\text{SrFe}_2\text{Se}_2\text{O}$ As Probed by Neutron Diffraction and Mössbauer Spectroscopy. European Journal of Inorganic Chemistry, 2017, 2017, 3829-3833.	1.0	7
32	Magnetic resonance spectroscopy on the spin-frustrated magnets YBaCo_3O_7 and $\text{YBaCo}_7\text{O}_{10}$. Journal of the American Chemical Society, 2017, 139, 10000-10006.	1.9	5
33	Swedenborgite $\text{CaBa}(\text{Mn}_2\text{Fe}_2)\text{O}_7$ with Spin Ordering on a Geometrically Frustrated, Polar, Non-centrosymmetric $\text{S} = 5/2$ Lattice. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1543-1550.	0.6	2
34	Anion Ordering in Bichalcogenides. Inorganics, 2016, 4, 23.	1.2	12
35	Metal Vacancy Ordering in an Antiperovskite Resulting in Two Modifications of Fe_2SeO . Angewandte Chemie, 2016, 128, 9526-9529.	1.6	0
36	Metal Vacancy Ordering in an Antiperovskite Resulting in Two Modifications of Fe_2SeO . Angewandte Chemie - International Edition, 2016, 55, 9380-9383.	7.2	10

#	ARTICLE	IF	CITATIONS
37	[Cs ₆ Cl][Fe ₂₄ Se ₂₆]: A Host-Guest Compound with Unique Fe-Se Topology. <i>Chemistry - A European Journal</i> , 2016, 22, 4626-4631.	1.7	8
38	Bad-Metal Layered Sulfide Oxide CsV ₂ S ₂ O. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 23-27.	1.0	12
39	Fused Perovskite Tunnel Structures in Ba ₅ Fe _{6+x} S _{4+x} O ₈ (0.44% <i>x</i> ~0.55) with <i>x</i> -Dependent Two-Stage Magnetizations. <i>Chemistry - A European Journal</i> , 2016, 22, 11303-11309.	1.7	2
40	Synthesis and Characterization of CsTi ₂ Te ₂ O (<i>x</i>) Tj ETQ _{0 0 0} rgBT /Overlock	1.9	4
41	Anionic Ordering in Ba ₁₅ V ₁₂ S ₃₄ O ₃ , Affording Three Oxidation States of Vanadium and a Quasi-One-Dimensional Magnetic Lattice. <i>Chemistry of Materials</i> , 2016, 28, 1621-1624.	3.2	10
42	Synthesis and Characterization of Frustrated Spin Ladders SrFe ₂ S ₂ O and SrFe ₂ Se ₂ O. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2982-2988.	1.0	15
43	Ba ₃ V ₂ S ₄ O ₃ : A Mott Insulating Frustrated Quasi-One-Dimensional <i>S</i> =1 Magnet. <i>Chemistry - A European Journal</i> , 2015, 21, 7938-7943.	1.7	19
44	Synthesis and Characterization of Ba[CoSO]: Magnetic Complexity in the Presence of Chalcogen Ordering. <i>Chemistry - A European Journal</i> , 2015, 21, 10821-10828.	1.7	19
45	Enhanced <i>In Vitro</i> and <i>In Vivo</i> Cellular Imaging with Green Tea Coated Water-Soluble Iron Oxide Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6530-6540.	4.0	63
46	Syntheses and coordination chemistry of perfluoroaryl-1H-tetrazoles. <i>Polyhedron</i> , 2015, 100, 271-281.	1.0	8
47	Structural invariance upon antiferromagnetic ordering in geometrically frustrated swedenborgite, CaBaCo ₂ Fe ₂ O ₇ . <i>Journal of Applied Crystallography</i> , 2014, 47, 2038-2047.	1.9	12
48	A Complete High-to-Low spin state Transition of Trivalent Cobalt Ion in Octahedral Symmetry in SrCo _{0.5} Ru _{0.5} O ₃ . <i>Journal of the American Chemical Society</i> , 2014, 136, 1514-1519.	6.6	117
49	Monomeric Iron Heteroarylalkenolates: Structural Design Concepts and Investigations on Their Application in Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2014, 14, 1811-1818.	1.4	17
50	Bioconjugated Iron Oxide Nanocubes: Synthesis, Functionalization, and Vectorization. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16631-16642.	4.0	32
51	Ionothermal synthesis of open-framework metal phosphates with a Kagom lattice network exhibiting canted anti-ferromagnetism. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7417.	2.7	22
52	Ionothermal Synthesis, Crystal Structure, and Magnetic Study of Co ₂ PO ₄ OH Isostructural with Caminite. <i>Inorganic Chemistry</i> , 2014, 53, 3072-3077.	1.9	15
53	<i>S</i> = 2 Spin Ladders in the Sulfide Oxide BaFe ₂ S ₂ O. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6136-6136.	1.0	0
54	<i>S</i> = 2 Spin Ladders in the Sulfide Oxide BaFe ₂ S ₂ O. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6150-6155.	1.0	18

#	ARTICLE	IF	CITATIONS
55	First Homoleptic Complexes of the Tridentate Pyridine-2,6-bis(ditetrazolate) Ligand. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2757-2767.	1.0	7
56	Ionothermal Synthesis of the First Luminescent Open-Framework Manganese Borophosphate with Switchable Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3032-3038.	1.0	25
57	Crystal structure and properties of the manganese containing Swedenborgite YBaMn ₃ AlO ₇ . <i>Solid State Sciences</i> , 2011, 13, 831-836.	1.5	12
58	Water-Soluble Superparamagnetic Magnetite Nanoparticles with Biocompatible Coating for Enhanced Magnetic Resonance Imaging. <i>ACS Nano</i> , 2011, 5, 6315-6324.	7.3	250
59	Crystal structure and magnetism of tetra- and tri-coordinated iron in CaBaFe ₄ O ₁₃ . <i>Physical Review B</i> , 2008, 78, 040401.	1.1	26
60	Magnetostrictive NaOFe ordering of the spin compound BaMn ₅ O ₁₃ . <i>Physical Review B</i> , 2008, 78, 040402.	1.1	18
61	Electronic and magnetic properties of the kagome system YBaCo ₇ O ₁₃ . <i>Physical Review B</i> , 2008, 78, 040403.	1.1	18
62	Structure and properties of the kagome compound YBaCo ₄ xZnxO ₇ (x=0,1,2,3). <i>Physical Review B</i> , 2008, 78, 040404.	1.1	92
63	Structure and properties of the kagome compound YBaCo ₃ O ₇ . <i>Physical Review B</i> , 2008, 78, 040405.	1.1	33
64	Approaching the Ground State of the Kagomé Antiferromagnet. <i>Physical Review Letters</i> , 2007, 98, 067201.	2.9	85
65	Remnant magnetization above room temperature in the semiconductor Y _{0.5} Ca _{0.5} BaCo ₄ O ₇ . <i>Solid State Sciences</i> , 2006, 8, 1272-1280.	1.5	39
66	Magnetic properties of compounds in the system CaBaCo _{4-x} ZnxAl _y O ₇ (x=0,1,2, y=0,1). <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1025-1033.	1.9	13
67	Magnetic investigations on six compounds with the general formula (Ca,Y)Ba(Co,Fe,Al,Zn) ₄ O ₇ and the structures of YBaCoFeZn ₂ O ₇ and YBaCo ₂ FeZnO ₇ . <i>Solid State Sciences</i> , 2005, 7, 1163-1172.	1.5	25
68	Disordered magnetism in the homologue series YBaCo _{4-x} ZnxO ₇ (x=0,1,2,3). <i>Journal of Physics Condensed Matter</i> , 2004, 16, 9209-9225.	0.7	58
69	Syntheses and structures of compounds with YBaCo ₄ O ₇ -type structure. <i>Solid State Sciences</i> , 2004, 6, 251-266.	1.5	147
70	Synthesis, Structure, and Magnetic Properties of the Silicides REIrSi (RE = Ce, Pr, Er, Tm, Lu) and SmIr _{0.266} (8)Si _{1.734} (8). <i>Monatshefte für Chemie</i> , 2004, 135, 1335-1347.	0.9	8
71	The structure of the new compound YBaCo ₄ O ₇ with a magnetic feature. <i>Solid State Sciences</i> , 2002, 4, 923-931.	1.5	223
72	Metathesis as alternative synthesis route to layered sulfides A(LiZn)S ₂ (A = alkali-metal) with unexpected colors. <i>New Journal of Chemistry</i> , 0, , .	1.4	1