

Ae Lim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4905702/publications.pdf>

Version: 2024-02-01

86
papers

400
citations

933447

10
h-index

1125743

13
g-index

86
all docs

86
docs citations

86
times ranked

198
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic properties and phase transitions of Tutton salt $(\text{NH}_4)_2\text{Co}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 1619-1623.	3.6	17
2	The ^{11}B - ^{13}C spin-lattice relaxation time of interpenetrating networks by solid state NMR. <i>Solid State Communications</i> , 1999, 109, 465-470.	1.9	14
3	Raman process studied by ^{87}Rb spin-lattice relaxation in a Rb_2ZnCl_4 single crystal at low temperature. <i>Solid State Communications</i> , 2001, 118, 453-457.	1.9	14
4	Ionic dynamics of the cation in organic-inorganic hybrid compound $(\text{CH}_3)_3\text{NH}_3(\text{MCl})_4$ (M = Cu and Zn) by ^1H MAS NMR, ^{13}C CP MAS NMR, and ^{14}N NMR. <i>RSC Advances</i> , 2018, 8, 18656-18662.	3.6	14
5	Physicochemical properties and structural dynamics of organic-inorganic hybrid $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{ZnX}_4$ (X = Cl and Br) crystals. <i>Scientific Reports</i> , 2021, 11, 8408.	3.3	14
6	Molecular Motion Studied by Proton Magnetic Resonance in a $[\text{N}(\text{CH}_3)_4]_2\text{ZnCl}_4$ Single Crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 219, 389-394.	1.5	13
7	Structural and thermodynamic properties of Tutton salt $\text{K}_2\text{Zn}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 371-376.	3.6	13
8	Physicochemical Property Investigations of Perovskite-Type Layer Crystals $[\text{NH}_3(\text{CH}_2)_2]_3[\text{CdCl}_4]_n$ ($n = 1, 2, 3, 4$). <i>Journal of Applied Physics</i> , 2000, 87, 1047-1050.	1.0	13
9	Superionic phase transitions and nuclear spin phonon relaxation by Raman processes in $\text{Me}_3\text{H}(\text{SeO}_4)_2$ (Me = Na, K, and Rb) single crystals by ^1H and Me NMR. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 116216.	1.8	11
10	Study on the phase transitions by nuclear magnetic resonance of $\hat{1}\pm$ -type $\text{RbAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ and $\hat{1}^2$ -type $\text{CsAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 45-51.	2.3	10
11	A nuclear magnetic resonance study of the phase transitions and electric quadrupole Raman processes of $\text{M}_3\text{H}(\text{SO}_4)_4 \cdot \text{H}_2\text{O}$ (M=Na, K, Rb, and Cs) single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 52-59.	2.3	10
12	^1H and ^7Li nuclear magnetic resonance study of the superionic crystals $\text{K}_4\text{LiH}_3(\text{SO}_4)_4$ and $(\text{NH}_4)_4\text{LiH}_3(\text{SO}_4)_4$. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	10
13	^7Li Spin-Lattice Relaxation Time in a LiNH_4SO_4 Single Crystal. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 214, 375-379.	1.5	9
14	Study on Paramagnetic Interactions of $(\text{CH}_3\text{NH}_3)_2\text{CoBr}_4$ Hybrid Perovskites Based on Nuclear Magnetic Resonance (NMR) Relaxation Time. <i>Molecules</i> , 2019, 24, 2895.	3.8	9
15	Nuclear magnetic resonance study of the phase transitions and local environments of $\hat{1}\pm$ -alum $\text{NH}_4\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ single crystals. <i>Chemical Physics</i> , 2010, 371, 91-95.	1.9	8
16	Study of the ferroelastic phase transition in the tetraethylammonium compound $[\text{N}(\text{C}_2\text{H}_5)_4]_2\text{ZnBr}_4$ by magic-angle spinning and static NMR. <i>AIP Advances</i> , 2016, 6, .	1.3	8
17	Thermotropic Liquid Crystalline Polymers with Various Alkoxy Side Groups: Thermal Properties and Molecular Dynamics. <i>Polymers</i> , 2019, 11, 992.	4.5	8
18	Structural dynamics of CH_3NH_3^+ and PbBr_3^- in tetragonal and cubic phases of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ hybrid perovskite by nuclear magnetic resonance. <i>Scientific Reports</i> , 2020, 10, 13140.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Structural characterization, thermal properties, and molecular motions near the phase transition in hybrid perovskite [(CH ₂) ₃ (NH ₃) ₂]CuCl ₄ crystals: 1H, 13C, and 14N nuclear magnetic resonance. Scientific Reports, 2020, 10, 20853.	3.3	8
20	Effect of Methylene Chain Length on the Thermodynamic Properties, Ferroelastic Properties, and Molecular Dynamics of the Perovskite-type Layer Crystal [NH ₃ (CH ₂) _n NH ₃]MnCl ₄ (n = 2, 3, and 4). Tj ETQq 1 1 0.784314 rgBT /Overd	3.5	8
21	Study of the molecular dynamics and phase transitions of (, Rb, and Cs) single crystals. Solid State Communications, 2011, 151, 1631-1634.	1.9	7
22	Study of chemically inequivalent N(CH ₃) ₄ ions in [N(CH ₃) ₄] ₂ ZnBr ₄ near the phase transition temperature using 1H MAS NMR, 13C CP/MAS NMR, and 14N NMR. Solid State Sciences, 2016, 52, 37-41.	3.2	7
23	2H and 133Cs nuclear magnetic resonance study of Cs ₃ D(SO ₄) ₂ single crystals in laboratory and rotating frames. Journal of Molecular Structure, 2013, 1031, 234-238.	3.6	6
24	Behavior of H ₂ O surrounding NH ₄ ⁺ and Al ³⁺ in NH ₄ Al(SO ₄) ₂ ·12H ₂ O by ¹ H MAS NMR, ¹⁴ N NMR, and ²⁷ Al NMR. RSC Advances, 2017, 7, 55276-55281.	3.6	6
25	Thermal property and structural molecular dynamics of organic-inorganic hybrid perovskite 1,4-butanediammonium tetrachlorocuprate. RSC Advances, 2020, 10, 34800-34805.	3.6	6
26	Thermal property, structural characterization, and physical property of cation and anion in organic-inorganic perovskite [(CH ₂) ₃ (NH ₃) ₂]CdCl ₄ crystal. Journal of Solid State Chemistry, 2021, 295, 121909.	2.9	6
27	Thermodynamic Properties, Structural Characteristics, and Cation Dynamics of Perovskite-Type Layer Crystal [NH ₃ (CH ₂) ₂ NH ₃]ZnCl ₄ . ACS Omega, 2020, 5, 31417-31422.	3.5	6
28	Structural phase transitions and ferroelastic properties of perovskite-type layered (CH ₃ NH ₃) ₂ CdCl ₄ . Journal of Applied Physics, 2017, 121, 215501.	2.5	6
29	Effect of methylene chain length of perovskite-type layered [NH ₃ (CH ₂) _n NH ₃]ZnCl ₄ (n = 2, 3, and 4) crystals on thermodynamic properties, structural geometry, and molecular dynamics. RSC Advances, 2021, 11, 37824-37829.	3.6	6
30	Tetrahedral structure in LiKSO ₄ crystals studied by 7 Li and 39 K NMR. Journal of Physics and Chemistry of Solids, 2001, 62, 881-885.	4.0	5
31	Nuclear magnetic resonance study of 7Li and 133Cs in a nonlinear optical CsLiB ₆ O ₁₀ single crystal. Solid State Communications, 2002, 123, 505-510.	1.9	5
32	Transferred hyperfine field of Rb ₂ CoCl ₄ single crystals in the ferroelectric-incommensurate-normal phase by 87Rb NMR. Solid State Communications, 2006, 138, 22-25.	1.9	5
33	NMR study of the relaxation mechanisms in single crystals of the nonlinear optical material bismuth triborate. Physica Status Solidi (B): Basic Research, 2010, 247, 2290-2294.	1.5	5
34	Thermodynamic properties and phase transitions of Tutton salt (NH ₄) ₂ Fe(SO ₄) ₂ ·6H ₂ O from MAS NMR and single-crystal NMR. Journal of Thermal Analysis and Calorimetry, 2014, 116, 779-783.	3.6	5
35	Tetragonal-orthorhombic-tetragonal phase transitions in organic-inorganic perovskite-type (CH ₃ NH ₃) ₂ CuCl ₄ . Tj ETQq 1 1 0.784314 rgBT /Overd	1.9	5
36	Cation dynamics by 1H and 13C MAS NMR in hybrid organic-inorganic (CH ₃ CH ₂ NH ₃) ₂ CuCl ₄ . RSC Advances, 2018, 8, 34110-34115.	3.6	5

#	ARTICLE	IF	CITATIONS
37	Effects of paramagnetic interactions by the partial replacement of Zn ²⁺ ions with Cu ²⁺ ions in lead-free zinc-based perovskite (MA) ₂ ZnCl ₄ crystal by MAS NMR. AIP Advances, 2019, 9, 105115.	1.3	5
38	Thermal, ferroelastic, and structural properties near phase transitions of organic-inorganic perovskite type [NH ₃ (CH ₂) ₃ NH ₃] ₃ CdBr ₄ crystals. RSC Advances, 2021, 11, 17622-17629.	3.6	5
39	Advances in physicochemical characterization of lead-free hybrid perovskite [NH ₃ (CH ₂) ₃ NH ₃] ₃ CuBr ₄ crystals. Scientific Reports, 2022, 12, .	3.3	5
40	Dynamics of NaHSeO ₃ and NaHSeO ₄ single crystals by observation of ¹ H and ²³ Na spin-lattice relaxation. Solid State Nuclear Magnetic Resonance, 2007, 31, 124-130.	2.3	4
41	Structural changes near phase transition temperatures for the [N(C ₂ H ₅) ₄] groups in hydrated [N(C ₂ H ₅) ₄] ₂ CuCl ₄ ·xH ₂ O. Journal of Thermal Analysis and Calorimetry, 2017, 130, 879-884.	3.6	4
42	Structural geometry of the layered perovskite-type (CH ₃ CH ₂ CH ₂ NH ₃) ₂ CuCl ₄ single crystal near phase transition temperatures. AIP Advances, 2018, 8, 105324.	1.3	4
43	Dynamics of NH ₃ (CH ₂) ₂ NH ₃ cation in perovskite layer crystal NH ₃ (CH ₂) ₂ NH ₃ CuCl ₄ by M. Solid State Communications, 2020, 312, 113862.	1.9	4
44	Physicochemical properties of the cation in organic-inorganic perovskite [NH ₃ (CH ₂) ₄ (NH ₃)] ₂ ZnBr ₄ crystals investigated using ¹ H and ¹³ C nuclear magnetic resonance relaxation. Journal of Solid State Chemistry, 2021, 302, 122438.	2.9	4
45	¹ H and ¹³³ Cs nuclear magnetic resonance study of the NH ₄ and Cs occupation rates of mixed (NH ₄) _{2-2x} Cs _x ZnCl ₄ (x=0, 1, and 2) crystals. Chemical Physics, 2012, 400, 39-43.	1.9	3
46	Nuclear Magnetic Resonance Relaxation Study of the Phase Transitions of Rb ₂ CuCl ₄ ·2H ₂ O and Cs ₂ MnCl ₄ ·2H ₂ O Single Crystals. Applied Magnetic Resonance, 2012, 42, 89-100.	1.2	3
47	Crystal growth and thermal properties of the Tutton salt Cs ₂ Fe(SO ₄) ₂ ·6H ₂ O single crystal. Journal of Thermal Analysis and Calorimetry, 2015, 119, 239-243.	3.6	3
48	Thermal and structural properties, and molecular dynamics in organic-inorganic hybrid perovskite (C ₂ H ₅ NH ₃) ₂ ZnCl ₄ . RSC Advances, 2019, 9, 38032-38037.	3.6	3
49	Characterization on Lead-Free Hybrid Perovskite [NH ₃ (CH ₂) ₅ NH ₃] ₃ CuCl ₄ : Thermodynamic Properties and Molecular Dynamics. Molecules, 2022, 27, 4546.	3.8	3
50	⁷ Li and ¹³³ Cs spin-lattice relaxation in a nonlinear optical crystal CsLiB ₆ O ₁₀ . Solid State Communications, 2002, 122, 207-211.	1.9	2
51	¹ M and ¹ H NMR, ionic motions and phase transitions in proton conducting MHSO ₄ (M = K, Rb, Cs, and) Tj ETQq1 1 0.784314 rgBT /Over	1.5	2
52	Structural properties of mixed (NH ₄) _{2-2x} Rb _x ZnCl ₄ (x=0, 1, and 2) crystals studied by ¹ H and ⁸⁷ Rb nuclear magnetic resonance. Journal of Solid State Chemistry, 2013, 200, 227-231.	2.9	2
53	Nuclear quadrupole coupling parameters and structural nature of the nonlinear optical material Li ₂ B ₄ O ₇ by NMR. Solid State Nuclear Magnetic Resonance, 2015, 66-67, 40-44.	2.3	2
54	Structural characteristics for phase transitions of [N(CH ₃) ₄] ₂ CuCl ₄ by ¹³ C CP/MAS NMR and ¹⁴ N NMR. Solid State Nuclear Magnetic Resonance, 2015, 70, 43-47.	2.3	2

#	ARTICLE	IF	CITATIONS
55	Hysteresis effect of ammonium and water protons by ^1H MAS NMR in $(\text{NH}_4)_2\text{CuBr}_4 \cdot 2\text{H}_2\text{O}$. <i>Journal of Molecular Structure</i> , 2017, 1146, 324-328.	3.6	2
56	Structural changes, thermodynamic properties, ^1H magic angle spinning NMR, and ^{14}N NMR of $(\text{NH}_4)_2\text{CuCl}_4 \cdot 2\text{H}_2\text{O}$. <i>RSC Advances</i> , 2018, 8, 6502-6506.	3.6	2
57	Molecular dynamics of hybrid halide perovskite $(\text{CH}_3\text{NH}_3)_2\text{CuX}_4$ ($\text{X} = \text{Br}$ and Cl) determined by nuclear magnetic resonance relaxation processes. <i>Solid State Sciences</i> , 2019, 96, 105955.	3.2	2
58	Preparation, Thermal, and Physical Properties of Perovskite-Type $(\text{C}_3\text{H}_7\text{NH}_3)_2\text{CdCl}_4$ Crystals. <i>Crystals</i> , 2019, 9, 108.	2.2	2
59	Thermal decomposition and structural dynamics in perovskite $(\text{C}_2\text{H}_5\text{NH}_3)_2\text{CdCl}_4$ crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 2243-2249.	3.6	2
60	Dynamic motions of organic cation in organic-inorganic hybrid 1,4-butanediammonium tetrabromocuprate (II) crystal by solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Molecular Structure</i> , 2022, 1252, 132204.	3.6	2
61	Structures, phase transitions, thermodynamic properties, and structural dynamics of eco-friendly hybrid perovskite $\text{NH}_3(\text{CH}_2)_3\text{NH}_3\text{CoCl}_4$ and $\text{NH}_3(\text{CH}_2)_5\text{NH}_3\text{CoCl}_4$ crystals. <i>Solid State Sciences</i> , 2022, , 106927.	3.2	2
62	^1H and ^{87}Rb nuclear magnetic resonance study of the order-disorder phase transition of RbHSeO_4 single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2008, 34, 162-166.	2.3	1
63	^1H , ^7Li , and ^{23}Na NMR study of the relaxation processes and molecular motions of $\text{Li}_2\text{NaH}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$ single crystals. <i>Materials Chemistry and Physics</i> , 2011, 131, 471-476.	4.0	1
64	Study on the structural properties and relaxation mechanisms in $\text{LiRb}_{1-x}(\text{NH}_4)_x\text{SO}_4$ ($x=0, 0.5, \text{ and } 1$) mixed crystals by ^1H , ^7Li , and ^{87}Rb nuclear magnetic resonance. <i>Solid State Nuclear Magnetic Resonance</i> , 2011, 39, 14-20.	2.3	1
65	A nuclear magnetic resonance study of the structural properties and molecular motions of $\text{Li}_2\text{KH}(\text{SO}_4)_2$ and LiKSO_4 single crystals. <i>Physica B: Condensed Matter</i> , 2012, 407, 833-837.	2.7	1
66	Thermodynamic properties and molecular dynamics of $(\text{NH}_4)_2\text{Zn}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ studied by single-crystal NMR and MAS NMR. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 699-703.	3.6	1
67	High-Temperature Phase Transition in $\text{N}(\text{CH}_3)_4\text{CdCl}_3$ Studied Using Static NMR and MAS NMR. <i>Applied Magnetic Resonance</i> , 2014, 45, 9-17.	1.2	1
68	^1H and ^2H Magic Angle Spinning Nuclear Magnetic Resonance Study of Phase Transition in $\text{KH}_3(\text{SeO}_3)_2$ and Deuterated $\text{KD}_3(\text{SeO}_3)_2$. <i>Applied Magnetic Resonance</i> , 2015, 46, 1293-1300.	1.2	1
69	Phase-transition-like phenomenon of $\text{NH}_4\text{H}_2\text{PO}_4$ observed using MAS NMR and static NMR near characteristic temperature. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 885-889.	3.6	1
70	Resonance Frequency and NMR Relaxation Times in Two Inequivalent ^{133}Cs in Cs_2CuBr_4 and Cs_2ZnBr_4 Single Crystals. <i>Applied Magnetic Resonance</i> , 2017, 48, 889-899.	1.2	1
71	Role of NH_4 ions in successive phase transitions of perovskite type $(\text{NH}_4)_2\text{ZnX}_4$ ($\text{X} = \text{Cl}, \text{Br}$) by ^1H MAS NMR and ^{14}N NMR. <i>RSC Advances</i> , 2018, 8, 11316-11323.	3.6	1
72	Effect of the partial substitution of Zn^{2+} ions in $(\text{CH}_3\text{NH}_3)_2\text{ZnCl}_4$ with Co^{2+} ions on the structure, phase transition, and molecular motion. <i>Journal of Molecular Structure</i> , 2019, 1195, 179-183.	3.6	1

#	ARTICLE	IF	CITATIONS
73	Interpretation of the crystal growth, phase transition, and molecular dynamics of $[N(CH_3)_4]_2ZnBr_4$ crystals by replacing partially the Zn^{2+} ions with Co^{2+} ions. <i>Journal of Molecular Structure</i> , 2019, 1197, 471-477.	3.6	1
74	Thermal stability, cation dynamics, and ferroelastic domain walls in the $\hat{I}^2\hat{A}^+\hat{I}^3$ phase transitions of perovskite $(C_2H_5NH_3)_2MnCl_4$ crystals. <i>Solid State Sciences</i> , 2020, 107, 106365.	3.2	1
75	Thermodynamic Property and Solid-State Molecular Dynamics of $Cs_2MnBr_4 \cdot 2H_2O$ Crystal. <i>Applied Magnetic Resonance</i> , 2021, 52, 211-219.	1.2	1
76	A prospect of cost-effective handling and transportation of graphene oxides: folding and redispersion of graphene oxide microsheets. <i>Nanotechnology</i> , 2021, 32, 455601.	2.6	1
77	Study on structural geometry and dynamic property of $[NH_3(CH_2)_5NH_3]CdCl_4$ crystal at phases I, II, and III. <i>Scientific Reports</i> , 2022, 12, 4251.	3.3	1
78	Nuclear magnetic resonance study of superprotonic conductor $Rb_4LiH_3(SO_4)_4$ single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 54, 41-46.	2.3	0
79	Ordering of the $O(2) \leftarrow O(2)$ bonds near the phase transition in $KD_3(SeO_3)_2$ single crystals by D nuclear magnetic resonance. <i>Open Physics</i> , 2013, 11, .	1.7	0
80	Structural Nature of 7Li and ^{11}B Sites by Static NMR and MAS NMR in Nonlinear Optical Material $LiCsB_6O_{10}$. <i>Applied Magnetic Resonance</i> , 2014, 45, 169-178.	1.2	0
81	Study of Two Inequivalent Hydrogen Bonds in $KHSO_4$ Single Crystals Using Nuclear Magnetic Resonance. <i>Applied Magnetic Resonance</i> , 2016, 47, 1171-1177.	1.2	0
82	Structural Phase Transition of Perovskite-Type $N(CH_3)_4CdBr_3$ Studied by MAS NMR and Static NMR. <i>Applied Magnetic Resonance</i> , 2017, 48, 297-305.	1.2	0
83	Thermodynamic properties and NMR study of tetragonal tetrahalogen-metallate dihydrate crystals of $Rb_2[CuX_4] \cdot 2H_2O$ ($X = Cl$ and Br). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1145-1150.	3.6	0
84	Effect of Proton Substitution in $Li_2RbH(SO_4)_2$ Single Crystal Studied by Nuclear Magnetic Resonance Relaxation. <i>Applied Magnetic Resonance</i> , 2020, 51, 1-9.	1.2	0
85	Determining effect of partial substitution of paramagnetic Mn^{2+} ions in perovskite $(MA)_2Zn_{1-x}Mn_xCl_4$ mixed crystals through MAS NMR relaxation times. <i>Solid State Sciences</i> , 2020, 103, 106185.	3.2	0
86	Thermodynamic, Physical, and Structural Characteristics in Layered Hybrid Type $(C_2H_5NH_3)_2MCl_4$ ($M =$)		