

Ae Lim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Study on structural geometry and dynamic property of $[\text{NH}_3(\text{CH}_2)_5\text{NH}_3]\text{CdCl}_4$ crystal at phases I, II, and III. <i>Scientific Reports</i> , 2022, 12, 4251.	3.3	1
3	Advances in physicochemical characterization of lead-free hybrid perovskite $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{CuBr}_4$ crystals. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
4	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
5	Characterization on Lead-Free Hybrid Perovskite $[\text{NH}_3(\text{CH}_2)_5\text{NH}_3]\text{CuCl}_4$: Thermodynamic Properties and Molecular Dynamics. <i>Molecules</i> , 2022, 27, 4546.	3.8	3
6	Thermal, ferroelastic, and structural properties near phase transitions of organic-inorganic perovskite type $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{CdBr}_4$ crystals. <i>RSC Advances</i> , 2021, 11, 17622-17629.	3.6	5
7	Thermodynamic Property and Solid-State Molecular Dynamics of $\text{Cs}_2\text{MnBr}_4 \cdot 2\text{H}_2\text{O}$ Crystal. <i>Applied Magnetic Resonance</i> , 2021, 52, 211-219.	1.2	1
8	Thermal property, structural characterization, and physical property of cation and anion in organic-inorganic perovskite $[(\text{CH}_2)_3(\text{NH}_3)_2]\text{CdCl}_4$ crystal. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121909.	2.9	6
9	Physicochemical properties and structural dynamics of organic-inorganic hybrid $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{ZnX}_4$ ($\text{X} = \text{Cl}$ and Br) crystals. <i>Scientific Reports</i> , 2021, 11, 8408.	3.3	14
10	Effect of Methylene Chain Length on the Thermodynamic Properties, Ferroelastic Properties, and Molecular Dynamics of the Perovskite-type Layer Crystal $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{MnCl}_4$. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121909.	3.5	8
11	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
12	Physicochemical properties of the cation in organic-inorganic perovskite $[\text{NH}_3(\text{CH}_2)_4(\text{NH}_3)]\text{ZnBr}_4$ crystals investigated using ^1H and ^{13}C nuclear magnetic resonance relaxation. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122438.	2.9	4
13	Physicochemical Property Investigations of Perovskite-Type Layer Crystals $[\text{NH}_3(\text{CH}_2)_3\text{NH}_3]\text{CdCl}_4$. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122438.	1.0	0
14	Effect of methylene chain length of perovskite-type layered $[\text{NH}_3(\text{CH}_2)_n\text{NH}_3]\text{ZnCl}_4$ ($n = 2, 3$, and 4) crystals on thermodynamic properties, structural geometry, and molecular dynamics. <i>RSC Advances</i> , 2021, 11, 37824-37829.	3.6	6
15	Effect of Proton Substitution in $\text{Li}_2\text{RbH}(\text{SO}_4)_2$ Single Crystal Studied by Nuclear Magnetic Resonance Relaxation. <i>Applied Magnetic Resonance</i> , 2020, 51, 1-9.	1.2	0
16	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
17	Thermal property and structural molecular dynamics of organic-inorganic hybrid perovskite 1,4-butanediammonium tetrachlorocuprate. <i>RSC Advances</i> , 2020, 10, 34800-34805.	3.6	6
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

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19	Thermal stability, cation dynamics, and ferroelastic domain walls in the $\hat{1}\hat{2}\hat{1}\hat{3}$ phase transitions of perovskite $(\text{C}_2\text{H}_5\text{NH}_3)_2\text{MnCl}_4$ crystals. <i>Solid State Sciences</i> , 2020, 107, 106365.	3.2	1
20	Structural characterization, thermal properties, and molecular motions near the phase transition in hybrid perovskite $[(\text{CH}_2)_3(\text{NH}_3)_2]\text{CuCl}_4$ crystals: ^1H , ^{13}C , and ^{14}N nuclear magnetic resonance. <i>Scientific Reports</i> , 2020, 10, 20853.	3.3	8
21	Dynamics of $\text{NH}_3(\text{CH}_2)_2\text{NH}_3$ cation in perovskite layer crystal $\text{NH}_3(\text{CH}_2)_2\text{NH}_3\text{CuCl}_4$ by M. <i>Solid State Communications</i> , 2020, 312, 113862.	1.9	4
22	Determining effect of partial substitution of paramagnetic Mn^{2+} ions in perovskite $(\text{MA})_2\text{Zn}_{1-x}\text{Mn}_x\text{Cl}_4$ mixed crystals through MAS NMR relaxation times. <i>Solid State Sciences</i> , 2020, 103, 106185.	3.2	0
23	Thermodynamic, Physical, and Structural Characteristics in Layered Hybrid Type $(\text{C}_2\text{H}_5\text{NH}_3)_2\text{MCl}_4$ ($\text{M} = \text{Tl}, \text{ET}, \text{Qq}, \text{Rb}, \text{K}, \text{Ag}, \text{Cs}$). <i>Journal of Molecular Structure</i> , 2020, 1200, 126743.	3.8	0
24	Thermodynamic Properties, Structural Characteristics, and Cation Dynamics of Perovskite-Type Layer Crystal $[\text{NH}_3(\text{CH}_2)_2\text{NH}_3]\text{ZnCl}_4$. <i>ACS Omega</i> , 2020, 5, 31417-31422.	3.5	6
25	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
26	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
27	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
28	Interpretation of the crystal growth, phase transition, and molecular dynamics of $[\text{N}(\text{CH}_3)_4]_2\text{ZnBr}_4$ 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
29	Thermotropic Liquid Crystalline Polymers with Various Alkoxy Side Groups: Thermal Properties and Molecular Dynamics. <i>Polymers</i> , 2019, 11, 992.	4.5	8
30	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
31	Effects of paramagnetic interactions by the partial replacement of Zn^{2+} ions with Cu^{2+} ions in lead-free zinc-based perovskite $(\text{MA})_2\text{ZnCl}_4$ crystal by MAS NMR. <i>AIP Advances</i> , 2019, 9, 105115.	1.3	5
32	Thermal and structural properties, and molecular dynamics in organic-inorganic hybrid perovskite $(\text{C}_2\text{H}_5\text{NH}_3)_2\text{ZnCl}_4$. <i>RSC Advances</i> , 2019, 9, 38032-38037.	3.6	3
33	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
34	Thermodynamic properties and NMR study of tetragonal tetrahalogen-metallate dihydrate crystals of $\text{Rb}_2[\text{CuX}_4] \cdot 2\text{H}_2\text{O}$ ($\text{X} = \text{Cl}$ and Br). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1145-1150.	3.6	0
35	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
36	Cation dynamics by ^1H and ^{13}C MAS NMR in hybrid organic-inorganic $(\text{CH}_3\text{CH}_2\text{NH}_3)_2\text{CuCl}_4$. <i>RSC Advances</i> , 2018, 8, 34110-34115.	3.6	5

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37	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
38	Ionic dynamics of the cation in organic-inorganic hybrid compound (CH ₃ NH ₃) ₂ MCl ₄ (M = Cu and Zn) by ¹ H MAS NMR, ¹³ C CP MAS NMR, and ¹⁴ N NMR. RSC Advances, 2018, 8, 18656-18662.	3.6	14
39	Phase-transition-like phenomenon of NH ₄ H ₂ PO ₄ observed using MAS NMR and static NMR near characteristic temperature. Journal of Thermal Analysis and Calorimetry, 2017, 130, 885-889.	3.6	1
40	Tetragonal-orthorhombic-tetragonal phase transitions in organic-inorganic perovskite-type (CH ₃ NH ₃) ₂ ETQ ₀ 0 ₀ 1 ₉ BT / Overlock 10 Tf	1.9	5
41	Hysteresis effect of ammonium and water protons by ¹ H MAS NMR in (NH ₄) ₂ CuBr ₄ ·2H ₂ O. Journal of Molecular Structure, 2017, 1146, 324-328.	3.6	2
42	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
43	Resonance Frequency and NMR Relaxation Times in Two Inequivalent ¹³³ Cs in Cs ₂ CuBr ₄ and Cs ₂ ZnBr ₄ Single Crystals. Applied Magnetic Resonance, 2017, 48, 889-899.	1.2	1
44	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
45	Structural Phase Transition of Perovskite-Type N(CH ₃) ₄ CdBr ₃ Studied by MAS NMR and Static NMR. Applied Magnetic Resonance, 2017, 48, 297-305.	1.2	0
46	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
47	Study of the ferroelastic phase transition in the tetraethylammonium compound [N(C ₂ H ₅) ₄] ₂ ZnBr ₄ by magic-angle spinning and static NMR. AIP Advances, 2016, 6, .	1.3	8
48	Study of Two Inequivalent Hydrogen Bonds in KHSO ₄ Single Crystals Using Nuclear Magnetic Resonance. Applied Magnetic Resonance, 2016, 47, 1171-1177.	1.2	0
49	Study of chemically inequivalent N(CH ₃) ₄ ions in [N(CH ₃) ₄] ₂ ZnBr ₄ near the phase transition temperature using ¹ H MAS NMR, ¹³ C CP/MAS NMR, and ¹⁴ N NMR. Solid State Sciences, 2016, 52, 37-41.	3.2	7
50	Structural and thermodynamic properties of Tutton salt K ₂ Zn(SO ₄) ₂ ·6H ₂ O. Journal of Thermal Analysis and Calorimetry, 2016, 123, 371-376.	3.6	13
51	¹ H and ² H Magic Angle Spinning Nuclear Magnetic Resonance Study of Phase Transition in KH ₃ (SeO ₃) ₂ and Deuterated KD ₃ (SeO ₃) ₂ . Applied Magnetic Resonance, 2015, 46, 1293-1300.	1.2	1
52	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
53	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
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

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55	Thermodynamic properties and phase transitions of Tutton salt $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ from MAS NMR and single-crystal NMR. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 779-783.	3.6	5
56	Structural Nature of 7Li and 11B Sites by Static NMR and MAS NMR in Nonlinear Optical Material $\text{LiCsB}_6\text{O}_{10}$. <i>Applied Magnetic Resonance</i> , 2014, 45, 169-178.	1.2	0
57	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
58	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
59	Nuclear magnetic resonance study of superprotonic conductor $\text{Rb}_4\text{LiH}_3(\text{SO}_4)_4$ single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 54, 41-46.	2.3	0
60	Ordering of the $\text{O}(2) \leftarrow \text{O}(2)$ bonds near the phase transition in $\text{KD}_3(\text{SeO}_3)_2$ single crystals by D nuclear magnetic resonance. <i>Open Physics</i> , 2013, 11, .	1.7	0
61	Structural properties of mixed $(\text{NH}_4)_2 \cdot x\text{Rb}_x\text{ZnCl}_4$ ($x=0, 1, \text{ and } 2$) crystals studied by ^1H and ^{87}Rb nuclear magnetic resonance. <i>Journal of Solid State Chemistry</i> , 2013, 200, 227-231.	2.9	2
62	^2H and ^{133}Cs nuclear magnetic resonance study of $\text{Cs}_3\text{D}(\text{SO}_4)_2$ single crystals in laboratory and rotating frames. <i>Journal of Molecular Structure</i> , 2013, 1031, 234-238.	3.6	6
63	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
64	^1H and ^{133}Cs nuclear magnetic resonance study of the NH_4 and Cs occupation rates of mixed $(\text{NH}_4)_2 \cdot x\text{Cs}_x\text{ZnCl}_4$ ($x=0, 1, \text{ and } 2$) crystals. <i>Chemical Physics</i> , 2012, 400, 39-43.	1.9	3
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	Nuclear Magnetic Resonance Relaxation Study of the Phase Transitions of $\text{Rb}_2\text{CuCl}_4 \cdot 2\text{H}_2\text{O}$ and $\text{Cs}_2\text{MnCl}_4 \cdot 2\text{H}_2\text{O}$ Single Crystals. <i>Applied Magnetic Resonance</i> , 2012, 42, 89-100.	1.2	3
67	Study of the molecular dynamics and phase transitions of (Li , Rb , and Cs) single crystals. <i>Solid State Communications</i> , 2011, 151, 1631-1634.	1.9	7
68	^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
69	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
70	Nuclear magnetic resonance study of the phase transitions and local environments of $\hat{\Gamma}_\pm$ -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
71	NMR study of the relaxation mechanisms in single crystals of the nonlinear optical material bismuth triborate. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2290-2294.	1.5	5
72	^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

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73	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
74	A nuclear magnetic resonance study of the phase transitions and electric quadrupole Raman processes of $\text{M}_5\text{H}_3(\text{SO}_4)_4 \cdot \text{H}_2\text{O}$ (M=Na, K, Rb, and Cs) single crystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 52-59.	2.3	10
75	^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
76	Dynamics of NaHSeO_3 and NaHSeO_4 single crystals by observation of ^1H and ^{23}Na spin-lattice relaxation. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 124-130.	2.3	4
77	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
78	Transferred hyperfine field of Rb_2CoCl_4 single crystals in the ferroelectric-incommensurate-normal phase by ^{87}Rb NMR. <i>Solid State Communications</i> , 2006, 138, 22-25.	1.9	5
79	^1H and ^{13}C NMR, ionic motions and phase transitions in proton conducting MHSO_4 (M = K, Rb, Cs, and Tl). <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 107-111.	1.5	14
80	^7Li and ^{133}Cs spin-lattice relaxation in a nonlinear optical crystal $\text{CsLiB}_6\text{O}_{10}$. <i>Solid State Communications</i> , 2002, 122, 207-211.	1.9	2
81	Nuclear magnetic resonance study of ^7Li and ^{133}Cs in a nonlinear optical $\text{CsLiB}_6\text{O}_{10}$ single crystal. <i>Solid State Communications</i> , 2002, 123, 505-510.	1.9	5
82	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
83	Tetrahedral structure in LiKSO_4 crystals studied by ^7Li and ^{39}K NMR. <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 881-885.	4.0	5
84	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
85	The ^{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
86	^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