

# Zhangzhen He

## List of Publications by Year in descending order

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137  
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149  
docs citations

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1629  
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#	ARTICLE	IF	CITATIONS
19	Magnetic properties of Co <sub>2</sub> V <sub>2</sub> O <sub>7</sub> single crystals grown by flux method. Journal of Solid State Chemistry, 2009, 182, 2526-2529.	2.9	28
20	Gd <sub>2</sub> Cu(SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>4</sub> : a 3d <sup>4</sup> f <sup>4</sup> hydroxysulfate with an enhanced cryogenic magnetocaloric effect. Dalton Transactions, 2015, 44, 17026-17029.	3.3	27
21	Crystal growth of Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> by flux method. Journal of Crystal Growth, 2006, 297, 1-3.	1.5	26
22	Magnetic properties of Mn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> single crystals. Journal of Solid State Chemistry, 2008, 181, 235-238.	2.9	25
23	Heat transport of the quasi-one-dimensional Ising-like antiferromagnet BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Physical Review B, 2011, 83, 094411.	3.2	25
24	Novel half-magnetization plateau and nematic-like transition in the spin-1/2 antiferromagnet BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Physical Review B, 2018, 97, 040407.	2.2	24
25	Magnetic structure and spin dynamics of the quasi-one-dimensional spin-chain antiferromagnet BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Physical Review B, 2011, 83, 094411.	3.2	23
26	Targeted replacement: systematic studies of dodecanuclear {M <sub>12</sub> L <sub>12</sub> } coordination clusters (M = Cr, Tj ETQq0 0 0 rgBT /Overlock 10	3.3	23
27	Unusually Large Magnetic Anisotropy in a CuO-Based Semiconductor Cu <sub>5</sub> V <sub>2</sub> O <sub>10</sub> . Journal of the American Chemical Society, 2011, 133, 1298-1300.	13.7	22
28	Magnetic phase diagram of an Ising spin-chain system $\hat{1}\pm$ -CoV <sub>2</sub> O <sub>6</sub> with 1/3 magnetization plateau. Journal of Magnetism and Magnetic Materials, 2014, 362, 27-30.	2.3	22
29	Syntheses, Structure, and Magnetic Properties of New 3d <sup>4</sup> f Heterometallic Hydroxysulfates Ln <sub>2</sub> Cu(SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>4</sub> (Ln = Sm, Eu, Tb, or Dy) with a Two-Dimensional Triangle Network. Crystal Growth and Design, 2015, 15, 2742-2747.	3.0	22
30	Spectra of Quasi-One-Dimensional Antiferromagnet BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Physical Review Letters, 2021, 127, 077201.	7.8	22
31	Heat switch effect in an antiferromagnetic insulator Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> . Applied Physics Letters, 2016, 108, .	3.3	21
32	Synthesis and magnetic properties of new tellurate compounds Na <sub>4</sub> MTeO <sub>6</sub> (M) Tj ETQq0 0 0 rgBT /Overlock 19	3.3	19
33	Octa-Kagom� Lattice Compounds Showing Quantum Critical Behaviors: Spin Gap Ground State versus Antiferromagnetic Ordering. Journal of the American Chemical Society, 2017, 139, 14057-14060.	13.7	18
34	Synthesis and Magnetic Properties of a New Borophosphate SrCo <sub>2</sub> BPO <sub>7</sub> with a Four-Column Ribbon Structure. Inorganic Chemistry, 2013, 52, 2492-2496.	4.0	17
35	Spin fluctuations and frustrated magnetism in multiferroic FeVO <sub>4</sub> . Physical Review B, 2014, 89, .	3.2	17
36	Magnetic behaviors of Cu <sub>3</sub> TeO <sub>6</sub> with multiple spin lattices. Journal of Magnetism and Magnetic Materials, 2014, 354, 146-150.	2.3	17



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55	Crystal growth of large spin gap material BaCu <sub>2</sub> V <sub>2</sub> O <sub>8</sub> by top-seeded method. Journal of Crystal Growth, 2005, 274, 486-488.	1.5	10
56	Flux Growth of $\hat{I}^2$ -Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> Single Crystals in a Closed Crucible. Crystal Growth and Design, 2008, 8, 2223-2226.	3.0	10
57	NMR study of the quasi-one-dimensional compound BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Solid State Communications, 2009, 149, 341-344.	1.9	10
58	Syntheses, Structure, and 2/5 Magnetization Plateau of a 2D Layered Fluorophosphate Na <sub>3</sub> Cu <sub>5</sub> (PO <sub>4</sub> ) <sub>4</sub> ·4H <sub>2</sub> O. Inorganic Chemistry, 2018, 57, 3151-3157.	4.0	10
59	Long-range and short-range orderings in K <sub>4</sub> Fe <sub>4</sub> P <sub>5</sub> O <sub>20</sub> with a natrolite-like framework. Dalton Transactions, 2013, 42, 5860.	3.3	9
60	Hydrothermal synthesis and magnetic properties of a new phase of SrCo <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> . Solid State Sciences, 2016, 52, 72-77.	3.2	9
61	Growth behavior and surface feature of quasi-one-dimensional anisotropic antiferromagnet BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> crystal. Journal of Crystal Growth, 2006, 289, 734-736.	1.5	8
62	Two magnetic phase transitions in quasi-one-dimensional system SrCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Solid State Communications, 2007, 141, 667-670.	1.9	8
63	Single crystal flux growth of the Ising spin-chain system $\hat{I}^3$ -CoV <sub>2</sub> O <sub>6</sub> . Journal of Crystal Growth, 2014, 388, 103-106.	1.5	8
64	Intra-chain superexchange couplings in quasi-1D 3 <i>d</i> transition-metal magnetic compounds. Journal of Physics Condensed Matter, 2016, 28, 276003.	1.8	8
65	A New One-Dimensional Spin Chain System Co <sub>3</sub> (BPO <sub>4</sub> ) <sub>2</sub> (PO <sub>4</sub> )(OH) <sub>3</sub> Showing 1/3 Magnetization Plateau. Crystal Growth and Design, 2016, 16, 6426-6429.	3.0	8
66	Layered Cu <sub>7</sub> (TeO <sub>3</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> with Diluted Kagomé Net Containing Frustrated Corner-Sharing Triangles. Inorganic Chemistry, 2017, 56, 1830-1834.	4.0	8
67	Magnetization and ESR studies on $Cu_4u_4$ An antiferromagnet with a kagome lattice. Physical Review B, 2018, 97, 040407.	3.2	8
68	Synthesis, structure and magnetic behaviors of a new spin-1/2 chain compound Na <sub>4</sub> CuTeO <sub>6</sub> . Journal of Alloys and Compounds, 2018, 748, 794-797.	5.5	8
69	Long-range antiferromagnetic ordering in Cu <sub>2</sub> NiB <sub>2</sub> O <sub>6</sub> . Journal of Solid State Chemistry, 2006, 179, 3937-3941.	2.9	7
70	Morphologies of Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> Single Crystals. Crystal Growth and Design, 2008, 8, 799-801.	3.0	7
71	Anisotropic magnetic behaviors of the spin-3/2 chain system $\hat{I}^3$ -CoV <sub>2</sub> O <sub>6</sub> . Journal of Magnetism and Magnetic Materials, 2015, 381, 263-266.	2.3	7
72	BaMn <sub>9</sub> VO <sub>4</sub> (VO <sub>6</sub> )(OH) <sub>2</sub> : a homospin ferrimagnet with a broken spinel-lattice of B-sites. Dalton Transactions, 2015, 44, 6363-6367.	3.3	7

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73	Synthesis, characterization, and mechanism analysis of $S = 2$ quasi-one-dimensional ferromagnetic semiconductor $\text{Pb}_2\text{Mn}(\text{VO})_2(\text{OH})$ . Dalton Transactions, 2016, 45, 7022-7027.	3.3	7
74	$\text{Co}_3(\text{SeO}_3)(\text{SO}_4)(\text{OH})_2$ : A Selenite-Sulfate Compound with a Distorted Kagomé Lattice. Inorganic Chemistry, 2020, 59, 8054-8060.	4.0	7
75	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting $\hat{\Gamma}2\text{-Cu}_2\text{V}_2\text{O}_7$ . Inorganic Chemistry, 2022, 61, 3697-3707.	4.0	7
76	$\text{Na}_2\text{Cu}_7(\text{SeO}_3)_4\text{O}_2\text{Cl}_4$ : a selenite chloride compound with $\text{Cu}_7$ units showing spin-frustration and a magnetization plateau. Dalton Transactions, 2016, 45, 8324-8326.	3.3	6
77	Synthesis, structures and magnetic properties of linear $\{\text{Coll}_2\text{LnIII}_2\}$ coordination clusters. New Journal of Chemistry, 2018, 42, 1284-1289.	2.8	6
78	$\text{Cu}_3(\text{CH}_3\text{COO})_4(\text{OH})_2 \cdot 5\text{H}_2\text{O}$ : A Novel Isolated Spin-1/2 Diamond Chain Compound Showing Possible Valence-Bond Condensation. Crystal Growth and Design, 2019, 19, 547-550.	3.0	6
79	Ferroelectric polarization reversal in multiferroic $\text{MnWO}_4$ via a rotating magnetic field up to 52 T. Physical Review B, 2021, 104, .	3.2	6
80	Magnetism and ESR of the antiferromagnet $\text{BaCo}_2$ . Physical Review B, 2022, 105, .	3.2	6
81	Magnetic behavior and structural feature of quasi-one-dimensional $\text{BaCu}_2\text{V}_2\text{O}_8$ crystal. Journal of Magnetism and Magnetic Materials, 2006, 306, 277-280.	2.3	5
82	Field-induced order-disorder transition in quasi-one-dimensional spin system $\text{PbCo}_2\text{V}_2\text{O}_8$ . Solid State Communications, 2007, 142, 404-406.	1.9	5
83	Field Induced Lattice Deformation in a Quasi-One-Dimensional Antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$ . Journal of the Physical Society of Japan, 2010, 79, 043706.	1.6	5
84	Two successive magnetic transitions observed in a new mixed valence compound $\text{PbNi}_3(\text{PO}_4)_3$ with channels structure. Journal of Alloys and Compounds, 2018, 765, 58-62.	5.5	5
85	Field-induced magnetic transitions and strong anisotropy in $\hat{\Gamma}2\text{-CoV}_2\text{O}_6$ single crystal. Journal of Physics Condensed Matter, 2019, 31, 375802.	1.8	5
86	Synthesis, structure and magnetic properties of a new phase of cobalt(II) hydroxyl phosphate $\hat{\Gamma}3\text{-Co}_2(\text{PO}_4)(\text{OH})$ with a warping two-legs ladder chain. Journal of Alloys and Compounds, 2019, 785, 1009-1014.	5.5	5
87	$\text{Pb}(\text{OF})\text{Cu}_3(\text{SeO}_3)_2(\text{NO}_3)_3$ : a selenite fluoride nitrate with a breathing kagomé lattice. Chemical Communications, 2020, 56, 11965-11968.	4.1	5
88	Crystal-to-crystal transformation of a new selenite compound $\text{CaNi}_2(\text{SeO}_3)_3 \cdot 2\text{H}_2\text{O}$ induced by dehydration. CrystEngComm, 2021, 23, 3126-3132.	2.6	5
89	Magnon-mediated thermal conductivity in the dimerized spin-gap compound $\text{BaCu}_2$ . Physical Review B, 2008, 78, .	3.2	4
90	Magnetic properties of a two-dimensional spin-1/2 system $\text{BaCu}_2\text{B}_2\text{O}_5$ . Solid State Communications, 2009, 149, 236-238.	1.9	4

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91	Synthesis and Magnetic Properties of $\text{Ba}_2\text{Mn}_2\text{Si}_2\text{O}_9$ : the First Example of $S=2$ Spin-Dimer with Spin-Singlet Ground State. Chemistry - an Asian Journal, 2009, 4, 1530-1535.	3.3	4
92	$\text{KNa}_3\text{Mn}_7(\text{PO}_4)_6$ : 2D spin-frustrated magnetic material with a diamond-like chain structure. RSC Advances, 2014, 4, 21559-21562.	3.6	4
93	Anisotropic magnetic behaviors of monoclinic $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ . Journal of Solid State Chemistry, 2014, 215, 189-192.	2.9	4
94	$\text{NaKV}_4\text{O}_9 \cdot 2\text{H}_2\text{O}$ : a new 2D magnetic compound with a $1/5$ -depleted square lattice. Dalton Transactions, 2016, 45, 5234-5239.	3.3	4
95	Syntheses and magnetic properties of new compounds $\text{Ca}_3\text{M}_3(\text{PO}_4)_4$ ( $M=\text{Ni, Co}$ ) with a wave-like layer structure built by zigzag M-chains. Journal of Alloys and Compounds, 2017, 717, 14-18.	5.5	4
96	Synthesis, Structure, and Magnetic Properties of Two Mercury Selenite Antiferromagnets $\text{HgM}(\text{SeO}_3)_2(\text{H}_2\text{O})_2$ ( $M = \text{Co, Ni}$ ). Inorganic Chemistry, 2019, 58, 5671-5676.	4.0	4
97	Molybdate-Tellurite Compounds with Capped-Kagomé Spin-Lattices. Inorganic Chemistry, 2020, 59, 2299-2307.	4.0	4
98	Reentrant ferroelectric phase induced by a tilting high magnetic field in $\text{Ni}_3\text{VO}_8$ . Physical Review B, 2022, 105, .	3.2	4
99	Approach toward Iron(II) Coordination Polymers Based on Chain Motifs with Thiolate or Mixed Thiolate/Carboxylate Bridges: Structures and Magnetic Properties. Inorganic Chemistry, 2021, 60, 19053-19061.	4.0	4
100	Spin-glass behavior in the ordered ribbon borate $\text{Cu}_2\text{CoB}_2\text{O}_6$ . Physical Review B, 2004, 70, .	3.2	3
101	$\text{K}_4\text{Fe}_4\text{P}_5\text{O}_{20}$ : A New Mixed Valence Microporous Compound with Elliptical Eight-Ring Channels. Inorganic Chemistry, 2012, 51, 7469-7471.	4.0	3
102	Synthesis, structure and magnetic properties of hydroxychlorides $\text{A}_3\text{Cu}_3(\text{OH})\text{Cl}_8$ ( $A = \text{Cs, Rb}$ ) with isolated tricopper. CrystEngComm, 2015, 17, 8471-8476.	2.6	3
103	Synthesis and magnetic properties of two isostructural fluorophosphates $\text{BaMPO}_4\text{F}$ ( $M = \text{Tl, Bi}$ ). Physical Review B, 2014, 89, 074414.	3.3	3
104	Crystal growth and magnetic properties of a kagomé compound $\text{Cs}_2\text{NaMn}_3\text{F}_{12}$ . Journal of Crystal Growth, 2017, 475, 256-260.	1.5	3
105	Magnetism study on a triangular lattice antiferromagnet $\text{Cu}_2(\text{OH})_3\text{Br}$ . Journal of Physics Condensed Matter, 2019, 31, 275801.	1.8	3
106	Low-temperature thermal conductivity and magnetic transitions of the kagome-staircase compound $\text{Ni}_3\text{V}_2\text{O}_8$ . Physical Review B, 2019, 99, .	3.2	3
107	Observation of Spin Relaxation in a Vanadate Chloride with Quasi-One-Dimensional Linear Chain. Crystal Growth and Design, 2019, 19, 2228-2234.	3.0	3
108	The half magnetization plateau in $\text{Ni}_3\text{V}_2\text{O}_8$ studied by electron spin resonance. Journal of Physics Condensed Matter, 2019, 31, 125801.	1.8	3

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109	Synthesis, Structure and Magnetic Properties of New Spin-Dimer Compound $K_2Cu_2(Te_2O_5)(TeO_3)_2 \cdot 2H_2O$ . <i>Crystal Growth and Design</i> , 2020, 20, 6804-6810.	3.0	3
110	A spin-1/2 gapped compound $CdCu_2(SeO_3)_2Cl_2$ with a ladder structure. <i>Chemical Communications</i> , 2021, 57, 6923-6926.	4.1	3
111	A pentanuclear $\{Co_5\}$ cluster motif forming a capped breathing kagomé lattice. <i>Chemical Communications</i> , 2021, 57, 6616-6619.	4.1	3
112	Absence of long-range order in an XY pyrochlore antiferromagnet $Er_2AlSbO_7$ . <i>Physical Review Materials</i> , 2020, 4, .	2.4	3
113	Optical selection rules of the magnetic excitation in the one-dimensional Ising-like antiferromagnet $BaCo_2Mn_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	3
114	Influence of Barium Intercalated Ions on Magnetic Interaction in the Tellurate Compound $BaNi_2TeO_6$ . <i>Inorganic Chemistry</i> , 2022, 61, 5731-5736.	4.0	3
115	Synthesis, structure and magnetic properties of a new spin-dimer compound $CaCu(SeO_3)_2$ . <i>Journal of Solid State Chemistry</i> , 2022, 310, 123039.	2.9	3
116	Synthesis and magnetic properties of two fluorophosphates $A_3Fe_4(PO_4)_2F_9$ ( $A = K^+$ and $NH_4^+$ ) with a tetrahedral spin-cluster chain structure. <i>Journal of Solid State Chemistry</i> , 2022, 312, 123164.	2.9	3
117	Synthesis, structure, and magnetic properties of new layered phosphate halides $Sr_2Cu_5(PO_4)_4X_2 \cdot 8H_2O$ ( $X = F, Cl$ ). <i>Inorganic Chemistry</i> , 2021, 60, 7843-7851.	1.0	2
118	Uniform Spin-1/2-Chain System with a Weak Interchain Interaction. <i>Inorganic Chemistry</i> , 2020, 59, 13827-13830.	4.0	2
119	Ferromagnetic Half-Metal Cyanamides $Cr(NCN)_2$ Predicted from First Principles Investigation. <i>Materials</i> , 2020, 13, 1805.	2.9	2
120	A series of heterometallic 3d-4f hydroxyl sulfate-fluoride compound $Ln_2Cu(SO_4)_2(OH)_3F \cdot H_2O$ ( $Ln = Gd, Tb, Dy$ ). <i>Inorganic Chemistry</i> , 2021, 60, 1000-1008.	2.4	2
121	Synthesis, structure and magnetic properties of two new spin-chain compounds $Ca_2Ni(HSeO_3)_2(SeO_3)_2$ and $Na_2Cu_5(SeO_3)_6 \cdot 2H_2O$ . <i>Dalton Transactions</i> , 2021, 50, 1222.	3.3	2
122	Quasi-one-dimensional Ising antiferromagnet $Na_5O_{36}$ . <i>Physical Review B</i> , 2022, 105, .	3.2	2
123	Quasi-one-dimensional Ising antiferromagnet $SrCo_2Mn_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	2
124	Low-energy excitations probed by $^{51}V$ NMR in the multiferroic $Ni_3V_2O_8$ . <i>Journal of Physics: Conference Series</i> , 2010, 200, 012070.	0.4	1
125	$BaCo_4(OH)_2(H_2PO_4)(HPO_4)_2(PO_4)$ : Archimedean lattice T11 in distorted layers built from $Co_4O_{12}(OH)_4$ squares. <i>Dalton Transactions</i> , 2016, 45, 8708-8711.	3.3	1
126	Two $S = 1/2$ one-dimensional barium copper phosphates showing antiferromagnetic and ferromagnetic intrachain interactions. <i>Dalton Transactions</i> , 2016, 45, 3319-3326.	3.3	1



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127	Structure and magnetism of novel mixed-anionic-group compounds $M_2(\text{SeO}_3)(\text{Te}_3\text{O}_7)$ ( $M = \text{Co}^{2+}, \text{Ni}^{2+}$ ). Journal of Alloys and Compounds, 2017, 728, 253-258.	5.5	1
128	$\text{Co}_3(\text{Mo}_2\text{O}_8)(\text{TeO}_3)$ : A new $\text{MoVI} \sim \text{TeIV}$ based compound with a zigzag Coll-chain structure. Journal of Solid State Chemistry, 2020, 284, 121140.	2.9	1
129	NMR Study of Magnetic Structure in $\text{Li-CoV}_2\text{O}_6$ . , 2020, , .		1
130	Crystal Growth and Magnetic Properties of $\text{BaCo}_2\text{V}_2\text{O}_8$ .. ChemInform, 2005, 36, no.	0.0	0
131	$^{51}\text{V}$ -NMR study of the quasi-one-dimensional antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$ . Journal of the Korean Physical Society, 2013, 63, 739-742.	0.7	0
132	A new 3d-4f heterometallic selenite chloride with a distorted Shastry-Sutherland lattice. Journal of Solid State Chemistry, 2020, 286, 121315.	2.9	0
133	High-field phase diagram of $\text{Ni}_3\text{V}_2\text{O}_8$ studied by specific heat and magnetocaloric effect measurements. Journal of Physics Condensed Matter, 2021, 33, 205402.	1.8	0
134	Large magnetic anisotropy and field-induced spin-flop transition in $\text{Fe}_2(\text{TeO}_3)_2(\text{SO}_4) \cdot 3\text{H}_2\text{O}$ single crystals. Journal of Magnetism and Magnetic Materials, 2021, 539, 168328.	2.3	0
135	Synthesis, structure and magnetic behaviors of a new fluorophosphate $\text{PbCuPO}_4\text{F}$ . Journal of Solid State Chemistry, 2022, 305, 122666.	2.9	0
136	3D Modelling on Biodegradable Nanoparticle-Enhanced Cryoablation of Liver Tumor Based on Real Anatomical Model. Cryo-Letters, 2016, 37, 411-420.	0.3	0
137	Temperature-induced valence-state transition in double perovskite $\text{BaM}_2\text{O}_{10}$ ( $M = \text{Co}, \text{Ni}$ ). Physical Review Materials, 2022, 6, .		