

Zhen-Gang Sun

List of Publications by Year in descending order

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84
papers

1,238
citations

331670

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454955

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all docs

84
docs citations

84
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniform decoration of $\text{LiO}-66\text{-NH}_2$ nanooctahedra on TiO_2 electrospun nanofibers for enhancing photocatalytic H_2 production based on multi-step interfacial charge transfer. <i>Dalton Transactions</i> , 2021, 50, 6152-6160.	3.3	10
2	Homochiral MOF as Chiroptical Sensor for Determination of Absolute Configuration and Enantiomeric Ratio of Chiral Tryptophan. <i>Advanced Optical Materials</i> , 2021, 9, 2001889.	7.3	30
3	Differently luminescent sensing abilities for Cu^{2+} ion of two metal phosphonates with or without the free Lewis basic pyridyl sites. <i>Journal of Molecular Structure</i> , 2021, 1234, 130175.	3.6	6
4	Dual-Functional Metal-Organic Framework for Luminescent Detection of Carcinoid Biomarkers and High Proton Conduction. <i>Inorganic Chemistry</i> , 2021, 60, 17303-17314.	4.0	25
5	Two novel zinc(II) phosphonates for the selective luminescence sensing of 1,2,4-trichlorobenzene and Hg^{2+} . <i>Microchemical Journal</i> , 2020, 159, 105385.	4.5	4
6	Lanthanide oxalatophosphonates with two types of layered structures: syntheses, structures, luminescence and magnetic properties. <i>New Journal of Chemistry</i> , 2018, 42, 1235-1242.	2.8	6
7	Terbium Oxalatophosphonate as Efficient Multiresponsive Luminescent Sensors for Chromate Anions and Tryptophan Molecules. <i>ACS Omega</i> , 2018, 3, 16735-16742.	3.5	15
8	Two Highly Stable Luminescent Lead Phosphonates Based on Mixed Ligands: Highly Selective and Sensitive Sensing for Thymine Molecule and VO_3^- Anion. <i>ACS Omega</i> , 2018, 3, 16443-16452.	3.5	1
9	Synthesis, Structures and Recognition Properties of Two Cadmium(II) Phosphonates for Highly Selective Sensing of $\text{Cr}_2\text{O}_7^{2-}$ and CrO_4^{2-} Anions. <i>ChemistrySelect</i> , 2018, 3, 6845-6851.	1.5	3
10	3D Framework and Supramolecular Structures Assembly from a Carboxyphosphonic Acid and Transition Metals: Sensing of Nitro Compounds and Surface Photovoltage Properties. <i>ChemistrySelect</i> , 2016, 1, 6783-6791.	1.5	0
11	Chiral and Achiral Copper(II) Carboxyphosphonates Supramolecular Structures: Synthesis, Structures, Surface Photovoltage, and Magnetic Properties. <i>Crystal Growth and Design</i> , 2016, 16, 5624-5635.	3.0	24
12	Cadmium(II) carboxyphosphonates based on mixed ligands: syntheses, crystal structures and recognition properties toward amino acids. <i>RSC Advances</i> , 2016, 6, 92175-92185.	3.6	14
13	Two fluorescent lead phosphonates for highly selective sensing of nitroaromatics (NACs), Fe^{3+} and MnO_4^- ions. <i>RSC Advances</i> , 2016, 6, 110255-110265.	3.6	31
14	Transition metal phosphonates with supramolecular structures: syntheses, structures, surface photovoltage and luminescence properties. <i>New Journal of Chemistry</i> , 2016, 40, 578-588.	2.8	8
15	Syntheses, structures and luminescent properties of cadmium(II) and silver(I) carboxyphosphonates with 2D supramolecular and layered structures. <i>Solid State Sciences</i> , 2015, 41, 8-13.	3.2	2
16	Synthesis, structures, luminescent and molecular recognition properties of three new alkaline earth metal carboxyphosphonates with a 3D supramolecular structure. <i>New Journal of Chemistry</i> , 2015, 39, 6611-6622.	2.8	4
17	Mixed-solvothermal synthesis, structures, surface photovoltage, luminescence and molecular recognition properties of three new transition metal phosphonates with 3D framework and supramolecular structures. <i>RSC Advances</i> , 2015, 5, 26410-26419.	3.6	13
18	Two novel cadmium(II) carboxyphosphonates with 3D framework structure: synthesis, crystal structures, luminescence and molecular recognition properties. <i>RSC Advances</i> , 2015, 5, 79041-79049.	3.6	15

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19	Syntheses, structures, luminescence and molecular recognition properties of four new cadmium carboxyphosphonates with 2D layered and 3D supramolecular structures. <i>CrystEngComm</i> , 2014, 16, 5050-5061.	2.6	31
20	Synthesis, structures, surface photovoltage and luminescence properties of two new nickel(Ni^{2+}) carboxyphosphonates with a 3D framework structure. <i>RSC Advances</i> , 2014, 4, 49892-49899.	3.6	6
21	Lanthanide(Ln^{3+}) oxalatophosphonates: syntheses, crystal structures and luminescence properties. <i>Dalton Transactions</i> , 2014, 43, 1542-1549.	3.3	7
22	Two novel oxovanadium(IV) organophosphonate hybrids with a 3D supramolecular structure: synthesis, crystal structures, surface photovoltage and luminescent properties. <i>RSC Advances</i> , 2014, 4, 46595-46601.	3.6	8
23	Syntheses, crystal structures, surface photovoltage, luminescence and molecular recognition properties of zinc(II) and iron(II) carboxyphosphonates with 2D and 3D supramolecular structures. <i>CrystEngComm</i> , 2014, 16, 1174.	2.6	13
24	Synthesis, structure, and surface photovoltage property of two new cobalt (II) phosphonates with 2D layered structure. <i>Inorganic Chemistry Communication</i> , 2014, 40, 181-186.	3.9	4
25	Synthesis, Crystal Structures, and Surface Photovoltage and Molecular Recognition Properties of Three Novel Metal Carboxyphosphonates with a 3D Pillared-Layered Structure. <i>Crystal Growth and Design</i> , 2014, 14, 1580-1590.	3.0	30
26	Synthesis, crystal structures, and surface photovoltage properties of four new metal diphosphonates based on the mixed ligands. <i>CrystEngComm</i> , 2013, 15, 1445.	2.6	29
27	Mixed-solvothermal synthesis, structures, luminescent and surface photovoltage properties of four new transition metal diphosphonates with a 3D supramolecular structure. <i>New Journal of Chemistry</i> , 2013, 37, 212-219.	2.8	17
28	Four Novel Oxomolybdenum-Organodiphosphonate Hybrids in the Presence of Cu(II) Organonitrogen Building Blocks: Synthesis, Crystal Structures, and Surface Photovoltage Properties. <i>Crystal Growth and Design</i> , 2013, 13, 226-238.	3.0	25
29	Hydrothermal synthesis of poly(acrylic acid)-functionalized La^{3+} - $(\text{F}^{2-})\text{NaYF}_4:\text{Yb}$, Er up-conversion nano-/micro-phosphors. <i>Powder Technology</i> , 2013, 237, 326-332.	4.2	16
30	Two novel lead(II) carboxyphosphonates with a layered and a 3D framework structure: syntheses, crystal structures, reversible dehydration/hydration, and luminescence properties. <i>Dalton Transactions</i> , 2013, 42, 8009.	3.3	25
31	Zinc(II) and cadmium(II) carboxyphosphonates with a 3D pillared-layered structure: synthesis, crystal structures, high thermal stabilities and luminescent properties. <i>RSC Advances</i> , 2013, 3, 623-631.	3.6	8
32	Synthesis, structures and surface photovoltage properties of four novel metal phosphonates with a 3D supramolecular structure. <i>CrystEngComm</i> , 2012, 14, 5479.	2.6	25
33	A series of novel lanthanide carboxyphosphonates with a 3D framework structure: synthesis, structure, and luminescent and magnetic properties. <i>Dalton Transactions</i> , 2012, 41, 10948.	3.3	18
34	Novel Lanthanide(III) Oxalatophosphonates with New Topology: Syntheses, Crystal Structures, Reversible Dehydration/Hydration, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2012, 12, 3191-3199.	3.0	11
35	Hydrothermal Synthesis, Crystal Structure, and Characterizations of Five New Lanthanide(III) Diphosphonates with a Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 111-115.	1.2	1
36	Hydrothermal syntheses, crystal structures and luminescence properties of three new metal diphosphonates with layered structure. <i>Inorganica Chimica Acta</i> , 2012, 387, 186-194.	2.4	4

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37	Synthesis, structure, and luminescent property of a novel cadmium (II) carboxyphosphonate with a 2D layered structure using 1,4-benzenedicarboxylic acid as second linker. <i>Inorganic Chemistry Communication</i> , 2012, 17, 64-67.	3.9	6
38	Synthesis, Crystal Structures, and Luminescence and Magnetic Properties of 3D Chiral and Achiral Lanthanide Diphosphonates Containing Left- and Right-Handed Helical Chains. <i>Crystal Growth and Design</i> , 2011, 11, 5346-5354.	3.0	51
39	Synthesis, structure, surface photovoltage and magnetic properties of a novel 3D homochiral manganese phosphonate with right-handed helical chains. <i>CrystEngComm</i> , 2011, 13, 3317.	2.6	43
40	Hydrothermal synthesis, structures, and luminescent properties of four new zinc(ii) diphosphonate hybrids with mixed ligands. <i>CrystEngComm</i> , 2011, 13, 6099.	2.6	17
41	Hydrothermal synthesis, structures, and luminescent properties of zinc(ii) and cadmium(ii) phosphonates with a 3D framework structure using terephthalate as second linkers. <i>Dalton Transactions</i> , 2011, 40, 5059.	3.3	48
42	Syntheses, Crystal Structures, and Luminescence Properties of Three Novel Lead Carboxyphosphonates with 3D Framework Structures Using Rigid Aromatic Carboxylic Acids as Second Organic Ligands. <i>Crystal Growth and Design</i> , 2011, 11, 4623-4631.	3.0	42
43	Hydrothermal synthesis, crystal structures, and luminescent properties of a series of new lanthanide oxalatophosphonates with a layer architecture. <i>Dalton Transactions</i> , 2011, 40, 5584.	3.3	33
44	Synthesis, structure, and luminescent property of a novel cadmium (II) phosphonate with a 3D framework structure using 1,4-benzenedicarboxylic acid as second linker. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1715-1718.	3.9	9
45	Solvothermal Syntheses and Structure of a New Polyoxomolybdate Functionalized with Carboxyphosphonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 108-111.	1.2	6
46	Mixed-solvothermal syntheses, structures and luminescence properties of two new Zn(II) phosphonates with layered and 3D framework structures. <i>Inorganica Chimica Acta</i> , 2011, 368, 200-206.	2.4	15
47	Hydrothermal Synthesis, Crystal Structure and Characterizations of Four New Metal Phosphonates with Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 247-252.	1.2	7
48	Hydrothermal Synthesis, Crystal Structure, and Characterizations of a New Lanthanide Oxalatophosphonate with a 3D Framework Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 449-453.	1.2	3
49	Hydrothermal Synthesis, Crystal Structure, and Characterization of Two New Metal Diphosphonates with a 3D Pillared Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 1405-1409.	1.2	7
50	Syntheses, Crystal Structures, and Luminescence Properties of a Series of Novel Lanthanide Oxalatophosphonates with Two Types of 3D Framework Structures. <i>Crystal Growth and Design</i> , 2010, 10, 406-413.	3.0	51
51	Synthesis, crystal structure and luminescence properties of eight new lanthanide carboxyphosphonates with a 3D framework structure. <i>New Journal of Chemistry</i> , 2010, 34, 2429.	2.8	16
52	Hydrothermal syntheses, crystal structures and thermal stabilities of three lanthanide(III) diphosphonates. <i>Journal of Coordination Chemistry</i> , 2009, 62, 294-301.	2.2	7
53	Hydrothermal Synthesis, Crystal Structure and Characterizations of Two New Manganese(II) Phosphonates with a 3D Framework Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 171-174.	1.2	6
54	Hydrothermal Synthesis, Crystal Structures, and Thermal Stabilities of Two New Zinc Phosphonates with a Layered and a 3D Framework Structures. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2617-2621.	1.2	0

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55	Synthesis, characterizations, and crystal structure of a novel layered phosphonate: $Zn_2Cl[O_3PCH_2N(CH_2CH_2)_2O][O_3PCH_2NH(CH_2CH_2)_2O]$. <i>Inorganic Chemistry Communication</i> , 2009, 12, 38-40.	3.9	10
56	Synthesis, crystal structure, and thermal stability of a novel 3D cadmium carboxyphosphonate containing left-hand helical chains $Cd_3Cl_2[(O_3PCH_2\hat{N}(H)C_5H_9\hat{C}OO)_2(H_2O)_2]\hat{A}4H_2O$. <i>Inorganic Chemistry Communication</i> , 2009, 12, 276-279.	3.9	8
57	Seven Novel Lanthanide Oxalatophosphonates with Two Types of 3D Framework Structures Based on <i>N</i> -Morpholinomethylphosphonic Acid: Syntheses, Crystal Structures, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2009, 9, 3228-3234.	3.0	45
58	Synthesis, crystal structures and luminescence properties of lanthanide oxalatophosphonates with a three-dimensional framework structure. <i>New Journal of Chemistry</i> , 2009, 33, 119-124.	2.8	43
59	Synthesis and Crystal Structures of Two New Layered Manganese(II) Diphosphonates: $Mn_2[(O_3PCH_2)_2NHR](H_2O)_2F\hat{A}H_2O$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 571-574.		5
60	A New Anderson-type Heteropolyanion-supported Transition Metal Complex: $[Himi)_2(Ni(im)_3)(H_2O)\{Ni(OH)_6Mo_6O_{18}(SO_4)_2\}]\hat{A}2H_2O$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1173-1176.		
61	Hydrothermal Synthesis, Crystal Structure, and Thermal Stability of Two New Metal Phosphonates with a Pillared Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2629-2633.	1.2	6
62	Synthesis, crystal structure and characterizations of a new 3D porous zinc phosphonate: $Zn_6[(O_3PCH_2)_2NHC_6H_{11}]_4\hat{A}6H_2O$. <i>Inorganic Chemistry Communication</i> , 2008, 11, 211-214.	3.9	13
63	Synthesis, crystal structure and characterizations of a novel lanthanide oxalatophosphonate with a 3D open-framework structure $[Cd_2\{HO_3PCH_2NHCH_2(CH_2CH_2OPO_2)\}(C_2O_4)_2.5(H_2O)_2]\hat{A}5H_2O$. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1057-1059.	3.9	13
64	Hydrothermal syntheses and crystal structures of two transition metal complexes supported by vanadate $\{V_4O_{12}\}: \{[M(dpa)_2]_2V_4O_{12}\}$ ($M = Co, Ni$. $dpa = 2,2'$ -dipyridylamine). <i>Journal of Coordination Chemistry</i> , 2008, 61, 1475-1483.	2.2	1
65	Hydrothermal synthesis and crystal structures of Mn(II) and Cd(II) aminophosphonates with a layered structure. <i>Journal of Coordination Chemistry</i> , 2008, 61, 2478-2487.	2.2	3
66	Hydrothermal syntheses, crystal structures and thermal stability of two divalent metal phosphonates with a layered and a 3D structure. <i>Journal of Coordination Chemistry</i> , 2008, 61, 1316-1324.	2.2	7
67	Hydrothermal synthesis and crystal structures of two new divalent metal phosphonates with layered structure. <i>Journal of Coordination Chemistry</i> , 2007, 60, 2075-2083.	2.2	4
68	Hydrothermal syntheses, crystal structures, and thermal stability of two new 3D open-framework metal(II) phosphonates. <i>Journal of Coordination Chemistry</i> , 2007, 60, 1247-1254.	2.2	6
69	Hydrothermal synthesis, crystal structure and thermal stability of a new 2D layered metal(II) phosphonate: $[NH_3CH_2CH_2NH_3][Fe_2(O_3PCH(OH)CO_2)_2(H_2O)_2]\hat{A}2H_2O$. <i>Journal of Coordination Chemistry</i> , 2007, 60, 2541-2547.	2.2	4
70	Synthesis and characterization of two new \hat{I}^2 -octamolybdate complexes $[NH_4][Y(DMF)_5(H_2O)_3][Mo_8O_{26}]\hat{A}2CH_3CN$ and $[NH_4][Ce(DMF)_7Mo_8O_{26}]$. <i>Journal of Coordination Chemistry</i> , 2007, 60, 985-993.	2.2	3
71	Synthesis, characterizations, and crystal structure of a novel 2D metal phosphonate: $Na_2[Cd_2(H_2O)_3(O_3PCH(OH)CO_2)_2]\hat{A}2H_2O$. <i>Inorganic Chemistry Communication</i> , 2007, 10, 283-286.	3.9	17
72	Synthesis and characterizations of a layered antimony (III) phosphonate: $[NH_2CH_2CH_2NH_2][Sb_2(O_3PCH(OH)CO_2)_2]$. <i>Inorganic Chemistry Communication</i> , 2007, 10, 535-537.	3.9	17

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73	Synthesis and crystal structures of two new inorganic-organic hybrid polyoxomolybdate complexes: [Himi] ₄ [Co(imi) ₂ (H ₂ O) ₂ Mo ₇ O ₂₄]·4H ₂ O and [Zn(imi) ₄] ₂ [(imi) ₂ Mo ₈ O ₂₆]·6H ₂ O. Inorganic Chemistry Communication, 2007, 10, 757-761.	3.9	20
74	Hydrothermal synthesis, crystal structure, and thermal stability of a novel 3D cadmium phosphonate with double-stranded helical channels. Inorganic Chemistry Communication, 2007, 10, 1109-1112.	3.9	25
75	Synthesis, spectroscopic properties and crystal structure of organophosphoryl polyoxotungstate $\hat{\Gamma}_{\pm}$ -[Bu ₄ N] ₃ H[PhCH ₂ P(O)] ₂ SiW ₁₁ O ₃₉ . Journal of Coordination Chemistry, 2006, 59, 1557-1564.	2.2	7
76	Hydrothermal synthesis, crystal structures and characterizations of a novel 3D metal phosphonate: Mg _{0.5} Cd[O ₃ PCH(OH)CO ₂]. Inorganic Chemistry Communication, 2006, 9, 999-1001.	3.9	24
77	Hydrothermal synthesis and crystal structure of a novel lead(II) phosphonate containing trifunctional phosphonate anions: Pb ₄ O[O ₃ PCH ₂ NC ₄ H ₇ CO ₂] ₂ . Inorganic Chemistry Communication, 2006, 9, 1121-1124.	3.9	21
78	Synthesis and crystal structure of Zn[O ₃ PCH(NH ₂)CH ₃]·2H ₂ O, the first zinc $\hat{\Gamma}_{\pm}$ -aminoethylphosphonate with a layer structure. Inorganic Chemistry Communication, 2006, 9, 1232-1234.	3.9	18
79	Synthesis and spectroscopic characterization of organophosphoryl polyoxotungstates $\hat{\Gamma}_{\pm}$ -[PhP(Y)] ₂ X _n +W ₁₁ . Journal of Coordination Chemistry, 2005, 58, 1321-1326.	2.2	1
80	Title is missing!. Transition Metal Chemistry, 2003, 28, 849-851.	1.4	4
81	Synthesis and spectroscopic characterization of organophosphoryl tungstosilicates $\hat{\Gamma}_{\pm}$ -[RP(O)] ₂ SiW ₁₁ O ₃₉ ·nH ₂ O. Inorganic Chemistry Communication, 2003, 6, 238-240.	3.9	8
82	Synthesis and characterization of organophosphoryl polyoxotungstate $\hat{\Gamma}_{\pm}$ -[R ₂ P ₂ W ₁₇ O ₆₁] ₆ ·nH ₂ O (R=C ₆ H ₁₁ P(O), C ₆ H ₅ P(O), C ₆ H ₁₁ P(S), C ₆ H ₅ P(S)). Inorganic Chemistry Communication, 2000, 3, 328-330.	3.9	16
83	Synthesis and spectroscopic characterization of organophosphoryl polyoxotungstates [C ₆ H ₁₁ P(O)] ₂ X _n +W ₁₁ O ₃₉ (8·n)·nH ₂ O (X _n =P ⁵⁺ , Si ⁴⁺ , B ³⁺ , Ga ³⁺). Polyhedron, 2000, 19, 125-128.	2.2	16
84	SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF ORGANOPHOSPHORYL POLYOXOTUNGSTATES OF FORMULA $\hat{\Gamma}_{\pm}$ -A-[RP(O)] ₂ PW ₉ O ₃₄₅ ·nH ₂ O. Main Group Metal Chemistry, 2000, 23, .	1.6	11