Zi-Yi Du

List of Publications by Year
in descending order

82 papers	2,546 citations	236925 25 h-index	206112 48 g-index
85 all docs	85 docs citations	85 times ranked	2587 citing authors

#	Article	IF	Citations
1	Water-stable metalâ€“organic frameworks with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. Chemical Communications, 2014, 50, 1092-1094.	4.1	339
2	Switchable Guest Molecular Dynamics in a Perovskiteâ€Like Coordination Polymer toward Sensitive Thermoresponsive Dielectric Materials. Angewandte Chemie - International Edition, 2015, 54, 914-918.	13.8	186
3	An amine-functionalized metalâ€“organic framework as a sensing platform for DNA detection. Chemical Communications, 2014, 50, 12069-12072.	4.1	178
4	Structural phase transitions in perovskite compounds based on diatomic or multiatomic bridges. CrystEngComm, 2016, 18, 7915-7928.	2.6	144
5	Rational Design of 0D, 1D, and 3D Open Frameworks Based on Tetranuclear Lanthanide(III) Sulfonateâ^'Phosphonate Clusters. Inorganic Chemistry, 2006, 45, 9780-9788.	4.0	141
6	Three Novel Zinc(II) Sulfonateâ^'Phosphonates with Tetranuclear or Hexanuclear Cluster Units. Inorganic Chemistry, 2006, 45, 6424-6430.	4.0	107
7	Above-room-temperature ferroelastic phase transition in a perovskite-like compound [N(CH3)4][Cd(N3)3]. Chemical Communications, 2014, 50, 1989.	4.1	90
8	Crystalline Supramolecular Gyroscope with a Water Molecule as an Ultrasmall Polar Rotator Modulated by Charge-Assisted Hydrogen Bonds. Journal of the American Chemical Society, 2017, 139, 8086-8089.	13.7	76
9	Molecular Dynamics, Phase Transition and Frequencyâ€Tuned Dielectric Switch of an Ionic Coâ€Crystal. Angewandte Chemie - International Edition, 2018, 57, 8032-8036.	13.8	71
10	Novel Manganese(II) Sulfonateâ^'Phosphonates with Dinuclear, Tetranuclear, and Hexanuclear Clusters. Inorganic Chemistry, 2007, 46, 9884-9894.	4.0	67
11	Novel Cadmium(II) Phosphonatophenylsulfonate Cluster Compounds:Â Syntheses, Structures, and Luminescent Properties. Crystal Growth and Design, 2007, 7, 1501-1507.	3.0	65
12	Molecule-based nonlinear optical switch with highly tunable on-off temperature using a dual solid solution approach. Nature Communications, 2020, 11, 2752.	12.8	57
13	Insight into the molecular dynamics of guest cations confined in deformable azido coordination frameworks. Chemical Communications, 2015, 51, 15641-15644.	4.1	56
14	Anion Effects on Lanthanide(III) Tetrazole-1-acetate Dinuclear Complexes Showing Slow Magnetic Relaxation and Photofluorescent Emission. Inorganic Chemistry, 2016, 55, 3738-3749.	4.0	56
15	Structural Transition in the Perovskite-like Bimetallic Azido Coordination Polymers: (NMe4)2[Bâ€²Â·Bâ€³(N3)6] (Bâ€² = Cr3+, Fe3+; Bâ€³ = Na+, K+). Crystal Growth and Design, 2014, 14, 3903-3909.	3.0	46
16	Importing spontaneous polarization into a Heisenberg ferromagnet for a potential single-phase multiferroic. Journal of Materials Chemistry C, 2016, 4, 8704-8710.	5.5	45
17	3D chiral and 2D achiral cobalt(<scp>ii</scp>) compounds constructed from a 4-(benzimidazole-1-yl)benzoic ligand exhibiting field-induced single-ion-magnet-type slow magnetic relaxation. Dalton Transactions, 2016, 45, 7768-7775.	3.3	40
18	Temperature-Dependent Crystal Self-Assembly, Disassembly, and Reassembly Among Three Cadmium(II) Carboxylate-Phosphinates. Crystal Growth and Design, 2012, 12, 2052-2058.	3.0	39

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19	Metalâ€“organic frameworks with improved moisture stability based on a phosphonate monoester: effect of auxiliary N-donor ligands on framework dimensionality. CrystEngComm, 2014, 16, 6635-6644.	2.6	37
20	Plastic Crystals with Polar Halochromate Anion: Thermosensitive Dielectrics Based upon Plastic Transition and Dipole Rotation. Inorganic Chemistry, 2016, 55, 11418-11425.	4.0	35
21	A New Approach to Novel Cluster Compounds of Lead(II) Phosphonates. European Journal of Inorganic Chemistry, 2007, 2007, 4520-4529.	2.0	32
22	Solvent-Dependent Assemblies of Trinuclear Copper Cluster into Variable Frameworks Based on Mixed Ligands of Polyalcohol Amines and Organic Carboxylates. Crystal Growth and Design, 2012, 12, 3619-3630.	3.0	32
23	Two new lead(II) diphosphonates with second ligands as an intercalated species or a multidentate metal linker. Journal of Molecular Structure, 2006, 788, 218-223.	3.6	28
24	Orderâ€“disorder phase transition in the first thiocyanate-bridged double perovskite-type coordination polymer: [NH₄]₂[NiCd(SCN)₆]. CrystEngComm, 2016, 18, 4495-4498.	2.6	28
25	Electrochemically Controlled Synthesis of Ultrathin Nickel Hydroxide Nanosheets for Electrocatalytic Oxygen Evolution. Inorganic Chemistry, 2021, 60, 3365-3374.	4.0	24
26	Molecular Dynamics, Phase Transition and Frequencyâ€Tuned Dielectric Switch of an Ionic Coâ€Crystal. Angewandte Chemie, 2018, 130, 8164-8168.	2.0	21
27	Novel second-harmonic-generation-active lead(ii) phosphinate based on 2-carboxyethyl(phenyl)phosphinate ligand. Dalton Transactions, 2011, 40, 9295.	3.3	20
28	Two magnetic Î”-chain-based Mn(<scp>ii</scp>) and Co(<scp>ii</scp>) coordination polymers with mixed carboxylateâ€“phosphinate and Î¼₃-OH^{â^'}bridges. CrystEngComm, 2017, 19, 1052-1057.	2.6	19
29	Octanuclear Aluminum(III) and Iron(III) Phosphonate Cages Encapsulating Two Na^IIons. Inorganic Chemistry, 2009, 48, 7015-7017.	4.0	17
30	Matching of Hostâ€“Guest Symmetry/Orientation and Molecular Dynamics in Two Double Perovskite-Like Azido Coordination Polymers. Inorganic Chemistry, 2017, 56, 9946-9953.	4.0	16
31	Structural phase transitions, dielectric bistability and luminescence of two bulky ion-pair crystals [N(C₃H₇)₄]₂[Ln(NO₃)₅] (Ln =) Tj ET Q q 1 1 0.78 4314	2.6	16
32	Orientation of Secondâ€Harmonicâ€Generationâ€Active Phenylsulfonyl Chromophores Attached on Layered Lead(II) Phosphonates. European Journal of Inorganic Chemistry, 2010, 2010, 4865-4869.	2.0	15
33	A Two-Fold Interpenetrating Porous Metalâ€“Organic Framework with a Large Solvent-Accessible Volume: Gas Sorption and Luminescent Properties. Crystal Growth and Design, 2015, 15, 3119-3122.	3.0	15
34	Thermal-induced reversible ferroelastic phase transition in a new bromethyl-substituted molecular rotor. Science China Chemistry, 2015, 58, 1137-1143.	8.2	15
35	Two ligand-length-tunable interpenetrating coordination networks with stable Zn2 unit as three-connected uninode and supramolecular topologies. CrystEngComm, 2013, 15, 4473.	2.6	14
36	Suzuki crossâ€coupling reactions of aryl chlorides using [Cl₂Pd(COD)]/piperazine derivative under microwave conditions. Applied Organometallic Chemistry, 2011, 25, 616-619.	3.5	13

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37	Isomerism of a series of octahedrally coordinated transition metal carboxylateâ€“phosphinates with 1,10-phenanthroline as a coligand: Discrete dimers or double-chains constructed by various dimeric ring motifs. Polyhedron, 2013, 51, 18-26.	2.2	13
38	A microporous manganese-based metalâ€“organic framework for gas sorption and separation. Journal of Molecular Structure, 2014, 1074, 19-21.	3.6	13
39	Diversified magnetic behaviors of new nickel(<scp>ii</scp>) and copper(<scp>ii</scp>) azido coordination polymers templated by diethyl or triethyl amines. New Journal of Chemistry, 2017, 41, 1212-1218.	2.8	13
40	Syntheses, structures, and magnetic properties of heterobimetallic complexes based on tetracyanometallic building blocks. Inorganica Chimica Acta, 2008, 361, 2901-2908.	2.4	12
41	Restraining the motion of a ligand for modulating the structural phase transition in two isomorphic polar coordination polymers. Dalton Transactions, 2014, 43, 9008-9011.	3.3	12
42	Four-step thermosensitive dielectric response arising from motionable low-symmetry ammonium confined in deformable supramolecular cages. Journal of Materials Chemistry C, 0, , .	5.5	12
43	Novel open-framework architecture in strontium(II) phosphonate. Inorganica Chimica Acta, 2009, 362, 351-354.	2.4	11
44	Two new 1D structures of copper(II) or yttrium(III) phosphonatobenzenesulfonates using 1,10-phenanthroline as auxilary ligand. Journal of Molecular Structure, 2009, 919, 112-116.	3.6	11
45	Layered Iron(III) and Cobalt(II) Phosphonates Decorated by Hydrophilic Sulfone Groups: Syntheses, Structures and Magnetic Properties. Crystal Growth and Design, 2010, 10, 3721-3726.	3.0	11
46	Pd-Catalyzed Oxidative Homocoupling of Arylboronic Acids in Aqueous Ethanol at Room Temperature. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 940-943.	0.6	11
47	Four novel alkaline-earth metal coordination polymers with networks controlled by the diverse coordination modes of amino-sulfonate ligand: Synthesis, crystal structures and luminescent properties. Inorganica Chimica Acta, 2012, 384, 117-124.	2.4	11
48	Two intricate hydrogen-bonded networks formed by m-sulfophenylphosphonic acid, melamine, and water molecules. Journal of Molecular Structure, 2013, 1035, 183-189.	3.6	11
49	Novel 2D or 3D alkaline-earth metal sulfonateâ€“phosphonates based on [O3Sâ€“C2H4â€“PO3H]2â^' ligand. Journal of Molecular Structure, 2008, 891, 272-277.	3.6	10
50	Novel double-chained or double-layered metal diphosphonates: synergic coordination effect of two closely linked phosphonate moieties promoted by large metal ionic radius. CrystEngComm, 2010, 12, 1774.	2.6	10
51	Isolation of a series of uranium organophosphinates. CrystEngComm, 2014, 16, 8073-8080.	2.6	9
52	Pseudopolymorphism deriving from variable Ï€â‹¯Ï€ stacking modes: Discrete tetranuclear cadmium(II) phosphonate clusters with 1,10-phenanthroline as auxiliary ligand. Journal of Molecular Structure, 2010, 979, 200-204.	3.6	8
53	Two polymorphs of (2-carboxyethyl)(phenyl)phosphinic acid. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, o195-o197.	0.4	8
54	Special hydrogen bonds observed in two monovalent metal carboxylateâ€“phosphinates: {NaH(PhPO2C2H4COOH)2}â^ž and {[KH(PhPO2C2H4COOH)2]Â·H2O}â^ž. Journal of Molecular Structure, 2013, 1033, 253-257.	3.6	8

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55	Tetrahedrally coordinated lithium(I) and zinc(II) carboxylate-phosphinates based on tetradentate 2-carboxyethyl(phenyl)phosphinate ligand. Inorganica Chimica Acta, 2014, 414, 121-126.	2.4	8
56	Highly regioselective Heck-Mizoroki reaction catalyzed by Pd/phosphine ligand in DMSO/[bmim][BF4] under microwave irradiation. Arkivoc, 2012, 2012, 164-172.	0.5	8
57	Hydrogen-bond-directed assemblies of [La(18-crown-6)(H 2 O) 4](BiCl 6)Â·3H 2 O and [Nd(18-crown-6)(H) Tj ETQq1 1 0.784314 rgBT 227-233.	3.6	7
58	2 p -4 f MOFs based on naphthalene-1,4,5,8-tetracarboxylate with magnetocaloric effect and slow magnetic relaxation properties. Polyhedron, 2017, 132, 123-129.	2.2	7
59	Isostructural phase transition and tunable water rotation within a unique solid rotor system. Journal of Materials Chemistry C, 2019, 7, 13176-13181.	5.5	7
60	A Crystalline Supramolecular Rotor Functioned by Dual Ultrasmall Polar Rotators^{â€}. Chinese Journal of Chemistry, 2022, 40, 1917-1923.	4.9	7
61	Crystal Structures and Magnetic or Photoluminescent Properties of Copper(II) and Zinc(II)-5-Sulfoisophthalate Coordination Polymers. Australian Journal of Chemistry, 2010, 63, 1565.	0.9	6
62	Insights into the Molecular Dynamics of Quasi-Spherical (Chloromethyl)triethylammonium Confined in a Weakly Bound Ionic Cocrystal. Inorganic Chemistry, 2022, 61, 7201-7206.	4.0	6
63	1D and 3D arrays of isomeric cadmium(II) diphosphonates constructed from N,N-dimethylaminomethane-1,1-diphosphonate ligand. Inorganic Chemistry Communication, 2010, 13, 77-80.	3.9	5
64	Melaminium (2-carboxyethyl)(phenyl)phosphinate monohydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2012, 68, o355-o358.	0.4	5
65	Coexistence of two conformational isomeric chains in a zinc(II) phosphonate induced by Ï€Â·Â·Â·Ï€ stacking interactions. Structural Chemistry, 2012, 23, 91-96.	2.0	5
66	Two new layer structures of zinc(II) or strontium(II) diphosphonates based on N,N-dimethylaminomethane-1,1-diphosphonate ligand. Journal of Molecular Structure, 2011, 994, 209-215.	3.6	4
67	Mixed-donor N,N,O-tridentate ligands for palladium-catalyzed Suzuki reactions. Transition Metal Chemistry, 2012, 37, 149-153.	1.4	4
68	Notable lattice deformation in a solid copper(II) dicyanamide complex induced by temperature-dependent supramolecular conformation. Inorganic Chemistry Communication, 2014, 49, 79-81.	3.9	4
69	Coexistence of a pair of enantiomorphic forms of chiral quartz nets with an interpenetrating mode in a centrosymmetric coordination polymer. CrystEngComm, 2015, 17, 7628-7631.	2.6	4
70	A two-fold interpenetrating porous metalâ€“organic framework with a large solvent-accessible volume and selective sensing of nitroaromatic explosives. Journal of Coordination Chemistry, 2016, 69, 996-1004.	2.2	4
71	Structural phase transitions and switchable dielectric constants of two ionic co-crystals (am)3[La(NO3)6] (amâ€¯=â€¯(n-Pr)3NH, (n-Bu)3NH). Inorganica Chimica Acta, 2018, 482, 878-883.	2.4	4
72	Dibromidobis(1,10-phenanthroline-Î²2N,Nâ€²)cadmium(II). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m708-m708.	0.2	4

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73	Two Novel Cationic Frameworks Based on Cadmium(II) Vinylphosphonate with 4,4â€²-Bipyridine as Coligand. Journal of Chemical Crystallography, 2014, 44, 480-486.	1.1	3
74	Solid solutions of flexible hostâ€“guest supramolecules for tuning molecular motion and phase transitions. Chemical Communications, 2021, 57, 7292-7295.	4.1	3
75	Poly[aqua(Î¼2-4,4â€²-bipyridyl-Îº2 N:Nâ€²)(Î¼2-3-phosphonatobenzenesulfonato-Îº2 O:Oâ€²)copper(II)]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2766-m2767.	0.2	2
76	Hydrogen-bonded layers directed by the [3-O3Sâ€“C6H4â€“PO3H]2â^'dianion:catena-poly[[silver(I)-Î¼-4,4â€²-bipyridine-Îº2N:Nâ€²] 3-[hydroxy(oxido)phosphinoyl]benzenesulfonate trihydrate] andcatena-poly[[[tetraaquacobalt(II)]-Î¼-4,4â€²-bipyridine-Îº2N:Nâ€²] 3-[hydroxy(oxido)phosphinoyl]benzenesulfonate]. Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, m353-m357.	0.4	2
77	Poly[bis[Î¼2-(dimethylazaniumyl)methylenediphosphonato]magnesium]. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, m362-m363.	0.2	2
78	Tube- or cage-containing layered cadmium(II) and zinc(II) phosphonates decorated by sulfone groups. Journal of Coordination Chemistry, 2012, 65, 813-822.	2.2	2
79	Deformation of the four-membered supramolecular ring in a series of dialkylammonium hydrogen 2,2â€²-biphenyldicarboxylates. Journal of Molecular Structure, 2015, 1099, 33-37.	3.6	2
80	Tris(1,10-phenanthroline-Îº2N,Nâ€²)cadmium(II) bis(perchlorate) 3.5-hydrate: a water chain stabilized by perchlorate anions. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m104-m106.	0.4	1
81	Syntheses, Crystal Structures and Luminescent Properties of Two Cadmium(II) Carboxylateâ€“Phosphinates with Various Dimeric Ring Motifs. Journal of Chemical Crystallography, 2016, 46, 237-244.	1.1	1
82	Structural phase transitions of molecular perovskites. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1010-C1010.	0.1	0