Zi-Yi Du

List of Publications by Year in descending order

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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	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
2	A Crystalline Supramolecular Rotor Functioned by Dual Ultrasmall Polar Rotators < sup >†< /sup >. Chinese Journal of Chemistry, 2022, 40, 1917-1923.	4.9	7
3	Solid solutions of flexible host–guest supramolecules for tuning molecular motion and phase transitions. Chemical Communications, 2021, 57, 7292-7295.	4.1	3
4	Electrochemically Controlled Synthesis of Ultrathin Nickel Hydroxide Nanosheets for Electrocatalytic Oxygen Evolution. Inorganic Chemistry, 2021, 60, 3365-3374.	4.0	24
5	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
6	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
7	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
8	Structural phase transitions and switchable dielectric constants of two ionic co-crystals (am)3[La(NO3)6] (am = (n-Pr)3NH, (n-Bu)3NH). Inorganica Chimica Acta, 2018, 482, 878-883.	2.4	4
9	Molecular Dynamics, Phase Transition and Frequencyâ€Tuned Dielectric Switch of an Ionic Coâ€Crystal. Angewandte Chemie, 2018, 130, 8164-8168.	2.0	21
10	Two magnetic Δ-chain-based Mn(<scp>ii</scp>) and Co(<scp>ii</scp>) coordination polymers with mixed carboxylate–phosphinate and μ ₃ -OH ^{â~3} bridges. CrystEngComm, 2017, 19, 1052-10)5 7 .6	19
11	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
12	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
13	Matching of Host–Guest Symmetry/Orientation and Molecular Dynamics in Two Double Perovskite-Like Azido Coordination Polymers. Inorganic Chemistry, 2017, 56, 9946-9953.	4.0	16
14	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
15	Structural phase transitions of molecular perovskites. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1010-C1010.	0.1	O
16	Structural phase transitions, dielectric bistability and luminescence of two bulky ion-pair crystals $ [N(C < sub > 3 < sub > H < sub > 7 < sub >) < sub > 4 < sub >] < sub > 2 < sub > [Ln(NO < sub > 3 < sub >) < sub > 5 < sub >] (Ln =) To the property of the$	i E I IQq0 0	0 ng BT /Overl
17	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
18	Order–disorder phase transition in the first thiocyanate-bridged double perovskite-type coordination polymer: [NH ₄] ₂ [NiCd(SCN) ₆]. CrystEngComm, 2016, 18, 4495-4498.	2.6	28

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19	Hydrogen-bond-directed assemblies of [La(18-crown-6)(H 2 O) 4](BiCl 6)·3H 2 O and [Nd(18-crown-6)(H) Tj 227-233.	ETQq1 3.6	_
20	Structural phase transitions in perovskite compounds based on diatomic or multiatomic bridges. CrystEngComm, 2016, 18, 7915-7928.	2.6	144
21	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
22	Syntheses, Crystal Structures and Luminescent Properties of Two Cadmium(II) Carboxylate–Phosphinates with Various Dimeric Ring Motifs. Journal of Chemical Crystallography, 2016, 46, 237-244.	1.1	1
23	Plastic Crystals with Polar Halochromate Anion: Thermosensitive Dielectrics Based upon Plastic Transition and Dipole Rotation. Inorganic Chemistry, 2016, 55, 11418-11425.	4.0	35
24	A two-fold interpenetrating porous metal–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
25	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
26	A Two-Fold Interpenetrating Porous Metal–Organic Framework with a Large Solvent-Accessible Volume: Gas Sorption and Luminescent Properties. Crystal Growth and Design, 2015, 15, 3119-3122.	3.0	15
27	Deformation of the four-membered supramolecular ring in a series of dialkylammonium hydrogen 2,2′-biphenyldicarboxylates. Journal of Molecular Structure, 2015, 1099, 33-37.	3.6	2
28	Thermal-induced reversible ferroelastic phase transition in a new bromethyl-substituted molecular rotor. Science China Chemistry, 2015, 58, 1137-1143.	8.2	15
29	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
30	Insight into the molecular dynamics of guest cations confined in deformable azido coordination frameworks. Chemical Communications, 2015, 51, 15641-15644.	4.1	56
31	Switchable Guest Molecular Dynamics in a Perovskite‣ike Coordination Polymer toward Sensitive Thermoresponsive Dielectric Materials. Angewandte Chemie - International Edition, 2015, 54, 914-918.	13.8	3 186
32	Water-stable metal–organic frameworks with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. Chemical Communications, 2014, 50, 1092-1094.	4.1	339
33	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
34	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
35	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
36	Metal–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

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37	An amine-functionalized metal–organic framework as a sensing platform for DNA detection. Chemical Communications, 2014, 50, 12069-12072.	4.1	178
38	Structural Transition in the Perovskite-like Bimetallic Azido Coordination Polymers: (NMe4)2[B′·B″(N3)6] (B′ = Cr3+, Fe3+; B″ = Na+, K+). Crystal Growth and Design, 2014, 14, 3903-3	90 ³ .0	46
39	Two Novel Cationic Frameworks Based on Cadmium(II) Vinylphosphonate with 4,4′-Bipyridine as Coligand. Journal of Chemical Crystallography, 2014, 44, 480-486.	1.1	3
40	Isolation of a series of uranium organophosphinates. CrystEngComm, 2014, 16, 8073-8080.	2.6	9
41	A microporous manganese-based metal–organic framework for gas sorption and separation. Journal of Molecular Structure, 2014, 1074, 19-21.	3.6	13
42	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
43	Isomerism of a series of octahedrally coordinated transition metal carboxylate–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
44	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
45	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
46	Special hydrogen bonds observed in two monovalent metal carboxylate–phosphinates: {NaH(PhPO2C2H4COOH)2}Ⱎ and {[KH(PhPO2C2H4COOH)2]·H2O}Ⱎ. Journal of Molecular Structure, 2013, 1033, 253-257.	3.6	8
47	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
48	Melaminium (2-carboxyethyl)(phenyl)phosphinate monohydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2012, 68, o355-o358.	0.4	5
49	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
50	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
51	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
52	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
53	Coexistence of two conformational isomeric chains in a zinc(II) phosphonate induced by π···π stacking interactions. Structural Chemistry, 2012, 23, 91-96.	2.0	5
54	Mixed-donor N,N,O-tridentate ligands for palladium-catalyzed Suzuki reactions. Transition Metal Chemistry, 2012, 37, 149-153.	1.4	4

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55	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
56	Novel second-harmonic-generation-active lead(ii) phosphinate based on 2-carboxyethyl(phenyl)phosphinate ligand. Dalton Transactions, 2011, 40, 9295.	3.3	20
57	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
58	Two polymorphs of (2-carboxyethyl)(phenyl)phosphinic acid. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, o195-o197.	0.4	8
59	Suzuki crossâ€coupling reactions of aryl chlorides using [Cl ₂ Pd(COD)]/piperazine derivative under microwave conditions. Applied Organometallic Chemistry, 2011, 25, 616-619.	3.5	13
60	Poly[bis[î¼2-(dimethylazaniumyl)methylenediphosphonato]magnesium]. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, m362-m363.	0.2	2
61	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
62	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
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	Tris(1,10-phenanthroline-l̂º2N,N′)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
65	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
66	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
67	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
68	Novel open-framework architecture in strontium(II) phosphonate. Inorganica Chimica Acta, 2009, 362, 351-354.	2.4	11
69	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
70	Octanuclear Aluminum(III) and Iron(III) Phosphonate Cages Encapsulating Two Na ^I Ions. Inorganic Chemistry, 2009, 48, 7015-7017.	4.0	17
71	Dibromidobis(1,10-phenanthroline-κ2N,N′)cadmium(II). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m708-m708.	0.2	4
72	Hydrogen-bonded layers directed by the [3-O3Sâ€"C6H4â€"PO3H]2â^'dianion:catena-poly[[silver(I)-ι/4-4,4′-bipyridine-κ2N:N′] 3-[hydroxy(oxido)phosphinoyl]benzenesulfonate trihydrate] andcatena-poly[[[tetraaquacobalt(II)]-ι/4-4,4′-bipyridine-κ2N:N′] 3-[hydroxy(oxido)phosphinoyl]benzenesulfonate]. Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, m353-m357.	0.4	2

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73	Syntheses, structures, and magnetic properties of heterobimetallic complexes based on tetracyanometallic building blocks. Inorganica Chimica Acta, 2008, 361, 2901-2908.	2.4	12
74	Novel 2D or 3D alkaline-earth metal sulfonate–phosphonates based on [O3S–C2H4–PO3H]2â^' ligand. Journal of Molecular Structure, 2008, 891, 272-277.	3.6	10
75	Novel Manganese(II) Sulfonateâ^'Phosphonates with Dinuclear, Tetranuclear, and Hexanuclear Clusters. Inorganic Chemistry, 2007, 46, 9884-9894.	4.0	67
76	Novel Cadmium(II) Phosphonatophenylsulfonate Cluster Compounds:Â Syntheses, Structures, and Luminescent Properties. Crystal Growth and Design, 2007, 7, 1501-1507.	3.0	65
77	A New Approach to Novel Cluster Compounds of Lead(II) Phosphonates. European Journal of Inorganic Chemistry, 2007, 2007, 4520-4529.	2.0	32
78	Poly[aqua(μ2-4,4′-bipyridyl-κ2 N:N′)(μ2-3-phosphonatobenzenesulfonato-κ2 O:O′)copper(II)]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2766-m2767.	0.2	2
79	Rational Design of OD, 1D, and 3D Open Frameworks Based on Tetranuclear Lanthanide(III) Sulfonateâ°'Phosphonate Clusters. Inorganic Chemistry, 2006, 45, 9780-9788.	4.0	141
80	Three Novel Zinc(II) Sulfonateâ^'Phosphonates with Tetranuclear or Hexanuclear Cluster Units. Inorganic Chemistry, 2006, 45, 6424-6430.	4.0	107
81	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
82	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