Song-Song Bao

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Proton conductive metal phosphonate frameworks. Coordination Chemistry Reviews, 2019, 378, 577-594.	18.8	300
2	Enhancing Proton Conduction in 2D Coâ€“La Coordination Frameworks by Solid-State Phase Transition. Journal of the American Chemical Society, 2014, 136, 9292-9295.	13.7	144
3	Coâ€“Ca Phosphonate Showing Humidity-Sensitive Single Crystal to Single Crystal Structural Transformation and Tunable Proton Conduction Properties. Chemistry of Materials, 2015, 27, 8116-8125.	6.7	137
4	Magnetic materials based on 3d metal phosphonates. Coordination Chemistry Reviews, 2016, 319, 63-85.	18.8	109
5	Iridium(III)-Based Metalâ€“Organic Frameworks as Multiresponsive Luminescent Sensors for Fe³⁺, Cr₂O₇^{2â€“}, and ATP^{2â€“} in Aqueous Media. Inorganic Chemistry, 2018, 57, 1079-1089.	4.0	104
6	Facile synthesis of a water stable 3D Eu-MOF showing high proton conductivity and its application as a sensitive luminescent sensor for Cu²⁺ ions. Journal of Materials Chemistry A, 2016, 4, 16484-16489.	10.3	99
7	Reversible SCâ€SC Transformation involving [4+4] Cycloaddition of Anthracene: A Singleâ€Ion to Singleâ€Molecule Magnet and Yellowâ€Green to Blueâ€White Emission. Angewandte Chemie - International Edition, 2018, 57, 8577-8581.	13.8	97
8	Anion-Directed Self-Assembly of Lanthanideâ€“notp Compounds and Their Fluorescence, Magnetic, and Catalytic Properties. Chemistry - A European Journal, 2007, 13, 2333-2343.	3.3	96
9	A cryogenic luminescent ratiometric thermometer based on a lanthanide phosphonate dimer. Journal of Materials Chemistry C, 2015, 3, 8480-8484.	5.5	87
10	Dual Intrareticular Oxidation of Mixed-Ligand Metalâ€“Organic Frameworks for Stepwise Electrochemiluminescence. Journal of the American Chemical Society, 2021, 143, 3049-3053.	13.7	81
11	Three-Dimensional Lanthanide(III)â€“Copper(II) Compounds Based on an Unsymmetrical 2-Pyridylphosphonate Ligand: An Experimental and Theoretical Study. Chemistry - A European Journal, 2007, 13, 4759-4769.	3.3	75
12	Bioinspired Engineering of Cobalt-Phosphonate Nanosheets for Robust Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 3895-3902.	11.2	69
13	Lanthanide Diruthenium(II,III) Compounds Showing Layered and PtS-Type Open Framework Structures. Inorganic Chemistry, 2007, 46, 8524-8532.	4.0	68
14	Incorporation of Triazacyclononane into the Metal Phosphonate Backbones. Inorganic Chemistry, 2006, 45, 1124-1129.	4.0	57
15	Homochiral Lanthanide Phosphonates with Brick-Wall-Shaped Layer Structures Showing Chiroptical and Catalytical Properties. Inorganic Chemistry, 2009, 48, 1901-1905.	4.0	57
16	Lanthanide phosphonates with pseudo-D_{5h} local symmetry exhibiting magnetic and luminescence bifunctional properties. Inorganic Chemistry Frontiers, 2015, 2, 558-566.	6.0	56
17	Reversible ONâ€“OFF switching of single-molecule-magnetism associated with single-crystal-to-single-crystal structural transformation of a decanuclear dysprosium phosphonate. Chemical Science, 2018, 9, 6424-6433.	7.4	54
18	Multiple-Step Humidity-Induced Single-Crystal to Single-Crystal Transformations of a Cobalt Phosphonate: Structural and Proton Conductivity Studies. Inorganic Chemistry, 2016, 55, 3706-3712.	4.0	49

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19	Tuning the Spin State of Cobalt in a Coâ€“La Heterometallic Complex through Controllable Coordination Sphere of La. Angewandte Chemie - International Edition, 2011, 50, 5504-5508.	13.8	45
20	Defective Metalâ€“Organic Frameworks Incorporating Iridiumâ€Based Metalloligands: Sorption and Dye Degradation Properties. Chemistry - A European Journal, 2017, 23, 6615-6624.	3.3	44
21	Thermo- and light-triggered reversible interconversion of dysprosiumâ€“anthracene complexes and their responsive optical, magnetic and dielectric properties. Chemical Science, 2021, 12, 929-937.	7.4	43
22	Cyclic single-molecule magnets: from the odd-numbered heptanuclear to a dimer of heptanuclear dysprosium clusters. Chemical Communications, 2016, 52, 2314-2317.	4.1	41
23	Breathing Effect in a Cobalt Phosphonate upon Dehydration/Rehydration: A Singleâ€Crystalâ€toâ€Singleâ€Crystal Study. Chemistry - A European Journal, 2013, 19, 16394-16402.	3.3	40
24	An enantioenriched vanadium phosphonate generated via asymmetric chiral amplification of crystallization from achiral sources showing a single-crystal-to-single-crystal dehydration process. Chemical Communications, 2012, 48, 6565.	4.1	39
25	Coupling photo-, mechano- and thermochromism and single-ion-magnetism of two mononuclear dysprosiumâ€“anthraceneâ€“phosphonate complexes. Chemical Communications, 2018, 54, 3278-3281.	4.1	39
26	Polar metal phosphonate containing unusual Î¼4-OH bridged double chains showing canted antiferromagnetism with large coercivity. Chemical Communications, 2014, 50, 3979.	4.1	37
27	A luminescent heptanuclear DyIr6 complex showing field-induced slow magnetization relaxation. Chemical Communications, 2014, 50, 8356.	4.1	36
28	Metal phosphonates incorporating metalloligands: assembly, structures and properties. Chemical Communications, 2020, 56, 12090-12108.	4.1	36
29	A Mixedâ€Valent Uranium Phosphonate Framework Containing U IV , U V , and U VI. Chemistry - A European Journal, 2016, 22, 11954-11957.	3.3	35
30	Chiral expression from molecular to macroscopic level via pH modulation in terbium coordination polymers. Nature Communications, 2017, 8, 2131.	12.8	35
31	Enhanced Magnetic Hardness in a Nanoscale Metalâ€“Organic Hybrid Ferrimagnet. Chemistry - A European Journal, 2012, 18, 9534-9542.	3.3	33
32	A Racemic Polar Cobalt Phosphonate with Weak Ferromagnetism. Chemistry - A European Journal, 2012, 18, 10839-10842.	3.3	32
33	Hofmann Metalâ€“Organic Framework Monolayer Nanosheets as an Axial Coordination Platform for Biosensing. ACS Applied Materials & Interfaces, 2019, 11, 12986-12992.	8.0	32
34	Supramolecular Isomerism of Oneâ€Dimensional Copper(II) Phosphonate and Its Influence on the Magnetic Properties. ChemPlusChem, 2012, 77, 1087-1095.	2.8	31
35	Sodium Cobalt Aminomethylidenediphosphonate with a Novel Open Framework Structure. Inorganic Chemistry, 2003, 42, 5037-5039.	4.0	29
36	pH-controlled polymorphism in a layered dysprosium phosphonate and its impact on the magnetization relaxation. Chemical Communications, 2015, 51, 2649-2652.	4.1	28

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37	Anhydrous Superprotonic Conductivity of a Uranyl-Based MOF from Ambient Temperature to 110 Â°C. , 2021, 3, 744-751.		27
38	Homochiral Cobalt Phosphonates Containing Î”â€Type Chains with a Tunable Interlayer Distance and a Fieldâ€Induced Phase Transition. Chemistry - A European Journal, 2014, 20, 17137-17142.	3.3	26
39	Homochiral metal phosphonate nanotubes. Chemical Communications, 2015, 51, 15141-15144.	4.1	26
40	Homochiral iron(ii)-based metalâ€“organic nanotubes: metamagnetism and selective nitric oxide adsorption in a confined channel. Chemical Communications, 2019, 55, 2825-2828.	4.1	25
41	Interplay of anthracene luminescence and dysprosium magnetism by steric control of photodimerization. Dalton Transactions, 2019, 48, 13769-13779.	3.3	24
42	Synergetic magnetic and luminescence switching <i>via</i> solid state phase transitions of the dysprosiumâ€“dianthracene complex. Journal of Materials Chemistry C, 2020, 8, 7369-7377.	5.5	24
43	An ultra-stable hafnium phosphonate MOF platform for comparing the proton conductivity of various guest molecules/ions. Chemical Communications, 2021, 57, 1238-1241.	4.1	24
44	Luminescent Ir(<scp>iii</scp>)â€“Ln(<scp>iii</scp>) coordination polymers showing slow magnetization relaxation. Inorganic Chemistry Frontiers, 2020, 7, 4580-4592.	6.0	23
45	Chemically Exfoliated Semiconducting Bimetallic Porphyrinylphosphonate Metalâ€“Organic Layers for Photocatalytic CO₂ Reduction under Visible Light. ACS Applied Energy Materials, 2021, 4, 4319-4326.	5.1	22
46	Exfoliated layered copper phosphonate showing enhanced adsorption capability towards Pb ions. Chemical Communications, 2014, 50, 10622.	4.1	20
47	Polymorphic Lanthanide Phosphonates Showing Distinct Magnetic Behavior. Inorganic Chemistry, 2016, 55, 5297-5304.	4.0	19
48	Metalâ€“Metalloligand Coordination Polymer Embedding Triangular Cobaltâ€“Oxo Clusters: Solvent- and Temperature-Induced Crystal to Crystal Transformations and Associated Magnetism. Inorganic Chemistry, 2020, 59, 8935-8945.	4.0	19
49	Homochiral mononuclear Dy-Schiff base complexes showing field-induced double magnetic relaxation processes. Dalton Transactions, 2016, 45, 690-695.	3.3	18
50	Chiralityâ€and pHâ€Controlled Supramolecular Isomerism in Cobalt Phosphonates and Its Impact on the Magnetic Behavior. Chemistry - A European Journal, 2015, 21, 17336-17343.	3.3	17
51	Formation Mechanism and Reversible Expansion and Shrinkage of Magnesiumâ€Based Homochiral Metalâ€“Organic Nanotubes. Chemistry - A European Journal, 2017, 23, 1086-1092.	3.3	17
52	Counteranion Modulated Crystal Growth and Function of One-Dimensional Homochiral Coordination Polymers: Morphology, Structures, and Magnetic Properties. Inorganic Chemistry, 2018, 57, 12143-12154.	4.0	17
53	Microwave-assisted hydrothermal syntheses of metal phosphonates with layered and framework structures. Dalton Transactions, 2007, , 4222.	3.3	16
54	Arylâ€“aryl coupling in a polycyclic aromatic hydrocarbon with embedded tetracoordinate boron centre. Organic and Biomolecular Chemistry, 2019, 17, 5060-5065.	2.8	16

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55	Na₂Ir^{IV}Cl₆: Spinâ€“Orbital-Induced Semiconductor Showing Hydration-Dependent Structural and Magnetic Variations. Inorganic Chemistry, 2018, 57, 13252-13258.	4.0	15
56	Two- and Three-Dimensional Heterometallic Ln[Ru2-Î±-Ammonium Diphosphonate] Nets: Structures, Porosity, Magnetism, and Proton Conductivity. Inorganic Chemistry, 2019, 58, 14034-14045.	4.0	15
57	Polymorphic layered copper phosphonates: exfoliation and proton conductivity studies. Dalton Transactions, 2019, 48, 6539-6545.	3.3	15
58	From a layered iridium(<scp>iii</scp>)â€“cobalt(<scp>ii</scp>) organophosphonate to an efficient oxygen-evolution-reaction electrocatalyst. Chemical Communications, 2019, 55, 13920-13923.	4.1	15
59	Diradicals or Zwitterions: The Chemical States of <i>m</i> -Benzoquinone and Structural Variation after Storage of Li Ions. CCS Chemistry, 2022, 4, 2768-2781.	7.8	14
60	Proton Conductivities Manipulated by the Counter-Anions in 2D Co-Ca Coordination Frameworks. European Journal of Inorganic Chemistry, 2016, 2016, 4476-4482.	2.0	13
61	Homochiral Erbium Coordination Polymers: Salt-Assisted Conversion from Triple to Quadruple Helices. Crystal Growth and Design, 2018, 18, 4045-4053.	3.0	13
62	Cyclic Singleâ€Molecule Magnets: From Evenâ€Numbered Hexanuclear to Oddâ€Numbered Heptanuclear Dysprosium Clusters. European Journal of Inorganic Chemistry, 2016, 2016, 3184-3190.	2.0	12
63	Dysprosiumâ€“dianthracene framework showing thermo-responsive magnetic and luminescence properties. Journal of Materials Chemistry C, 2021, 9, 10749-10758.	5.5	12
64	Controllable Macroscopic Chirality of Coordination Polymers through pH and Anionâ€Mediated Weak Interactions. Chemistry - A European Journal, 2021, 27, 16722-16734.	3.3	12
65	Modulating the microporosity of cobalt phosphonates via positional isomerism of co-linkers. CrystEngComm, 2015, 17, 8926-8932.	2.6	11
66	Enantioenriched Cobalt Phosphonate Containing Î”-Type Chains and Showing Slow Magnetization Relaxation. Inorganic Chemistry, 2016, 55, 9521-9523.	4.0	11
67	Cyclometalated Iridium(III) Complexes Incorporating Aromatic Phosphonate Ligands: Syntheses, Structures, and Tunable Optical Properties. ACS Omega, 2019, 4, 16543-16550.	3.5	11
68	Thermo-induced structural transformation with synergistic optical and magnetic changes in ytterbium and erbium complexes. Chinese Chemical Letters, 2021, 32, 1519-1522.	9.0	11
69	Racemic metal phosphonates based on 1-phosphonomethyl-2-benzimidazol-piperidine. CrystEngComm, 2013, 15, 10316.	2.6	10
70	Incorporating Paramagnetic Ir^{IV}Cl₆^{2â€“} in H-Bonded Networks of Metal-Phosphonate Hydrate: Slow Magnetic Relaxation and Proton Conduction. Crystal Growth and Design, 2019, 19, 4836-4843.	3.0	10
71	Layer or Tube? Uncovering Key Factors Determining the Rolling-up of Layered Coordination Polymers. Journal of the American Chemical Society, 2021, 143, 17587-17598.	13.7	10
72	Copper and cadmium phosphonates based on 2-quinolinephosphonate. Solid State Sciences, 2007, 9, 686-692.	3.2	9

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73	Switching on Single-Molecule-Magnet Behavior in MnIII-Schiff Base Out-of-Plane Dimers by the Phosphonate Terminal Ligand. European Journal of Inorganic Chemistry, 2014, 2014, 1042-1050.	2.0	9
74	Polar layered coordination polymers incorporating triazacyclononane-triphosphonate metalloligands. Dalton Transactions, 2020, 49, 3758-3765.	3.3	9
75	Studying the Proton Conduction through the Grain Surface of UiO-66-NH₂. ACS Applied Energy Materials, 2020, 3, 8198-8204.	5.1	9
76	From helices to superhelices: hierarchical assembly of homochiral van der Waals 1D coordination polymers. Chemical Science, 2021, 12, 12619-12630.	7.4	9
77	Uranyl phosphonates: crystalline materials and nanosheets for temperature sensing. Dalton Transactions, 2021, 50, 17129-17139.	3.3	9
78	Pillared Layered Metal Phosphonates Showing Fieldâ€Induced Magnetic Transitions. European Journal of Inorganic Chemistry, 2010, 2010, 895-901.	2.0	8
79	Octahedral erbium and ytterbium ion encapsulated in phosphorescent iridium complexes showing field-induced magnetization relaxation. Journal of Magnetism and Magnetic Materials, 2019, 484, 139-145.	2.3	8
80	Cobalt(II)â€dianthracene Frameworks: Assembly, Exfoliation and Properties. Chemistry - an Asian Journal, 2021, 16, 1456-1465.	3.3	8
81	Hydrated metal ions as weak BrÃ¸nsted acids show promoting effects on proton conduction. CrystEngComm, 2022, 24, 3886-3893.	2.6	8
82	Constructing Asymmetrical Ni-Centered {NiN₂O₄} Octahedra in Layered Metalâ€œOrganic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. Journal of the American Chemical Society, 2020, 142, 12841-12849.	13.7	7
83	Homochiral Dysprosium Phosphonate Nanowires: Morphology Control and Magnetic Dynamics. Chemistry - an Asian Journal, 2021, 16, 2648-2658.	3.3	7
84	Heterometallic uranyl-organic frameworks incorporating manganese and copper: Structures, ammonia sorption and magnetic properties. Polyhedron, 2021, 205, 115327.	2.2	7
85	Photoresponsive proton conduction in Zr-based metalâ€œorganic frameworks using the photothermal effect. Chemical Communications, 2022, 58, 8372-8375.	4.1	7
86	Temperature controlled formation of polar copper phosphonates showing large dielectric anisotropy and a dehydration-induced switch from ferromagnetic to antiferromagnetic interactions. Chemical Communications, 2018, 54, 6276-6279.	4.1	5
87	Dynamic Motion of Organic Ligands in Polar Layered Cobalt Phosphonates. Chemistry - A European Journal, 2018, 24, 13495-13503.	3.3	5
88	Layered manganese 4-phosphonoisophthalates (4-piH4) embedding Mn-O chains with metamagnetism in Mn3(4-piH)2(H2O)3Â·H2O. Science China Chemistry, 2012, 55, 1047-1054.	8.2	4
89	Polar Lanthanide Anthracene Complexes Exhibiting Magnetic, Luminescent and Dielectric Properties. European Journal of Inorganic Chemistry, 2021, 2021, 4207-4215.	2.0	4
90	Two three-dimensional mixed-ligated cobalt phosphonate coordination polymers: Syntheses, crystal structures and magnetic properties. Journal of Molecular Structure, 2022, 1248, 131456.	3.6	4

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91	Engineering Heteronuclear Arrays from <scp>Ir^{III}â€Metalloligand</scp> and <scp>Co^{II}</scp> Showing Coexistence of Slow Magnetization Relaxation and Photoluminescence. Chinese Journal of Chemistry, 2022, 40, 931-938.	4.9	4
92	A New Strategy towards Efficient and Recyclable Carbonâ€Chloride Bond Cleavage of Environmentally Harmful Organochlorides through Electrochemical Catalysis in Nonâ€“aqueous Media. ChemistrySelect, 2017, 2, 645-649.	1.5	2
93	In situ thermal-induced generation of {Ag0AgI} dimer within Co-Ag phosphonates. Chinese Chemical Letters, 2021, , .	9.0	2