

Song-Song Bao

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90 papers	2,397 citations	29 h-index	46 g-index
94 ext. papers	2,810 ext. citations	6.4 avg, IF	5.51 L-index

#	Paper	IF	Citations
90	Proton conductive metal phosphonate frameworks. <i>Coordination Chemistry Reviews</i> , 2019 , 378, 577-594	23.2	220
89	Enhancing proton conduction in 2D Co-La coordination frameworks by solid-state phase transition. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9292-5	16.4	124
88	Co/La Phosphonate Showing Humidity-Sensitive Single Crystal to Single Crystal Structural Transformation and Tunable Proton Conduction Properties. <i>Chemistry of Materials</i> , 2015 , 27, 8116-8125	9.6	117
87	Anion-directed self-assembly of lanthanide-notp compounds and their fluorescence, magnetic, and catalytic properties. <i>Chemistry - A European Journal</i> , 2007 , 13, 2333-43	4.8	94
86	Magnetic materials based on 3d metal phosphonates. <i>Coordination Chemistry Reviews</i> , 2016 , 319, 63-85	23.2	89
85	Iridium(III)-Based Metal-Organic Frameworks as Multiresponsive Luminescent Sensors for Fe, CrO, and ATP in Aqueous Media. <i>Inorganic Chemistry</i> , 2018 , 57, 1079-1089	5.1	86
84	Facile synthesis of a water stable 3D Eu-MOF showing high proton conductivity and its application as a sensitive luminescent sensor for Cu ²⁺ ions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16484-16489	13	77
83	Three-dimensional lanthanide(III)-copper(II) compounds based on an unsymmetrical 2-pyridylphosphonate ligand: an experimental and theoretical study. <i>Chemistry - A European Journal</i> , 2007 , 13, 4759-69	4.8	75
82	A cryogenic luminescent ratiometric thermometer based on a lanthanide phosphonate dimer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8480-8484	7.1	67
81	Lanthanide diruthenium(II,III) compounds showing layered and PtS-type open framework structures. <i>Inorganic Chemistry</i> , 2007 , 46, 8524-32	5.1	65
80	Reversible SC-SC Transformation Involving [4+4] Cycloaddition of Anthracene: A Single-Ion to Single-Molecule Magnet and Yellow-Green to Blue-White Emission. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8577-8581	16.4	62
79	Bioinspired Engineering of Cobalt-Phosphonate Nanosheets for Robust Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 3895-3902	13.1	58
78	Incorporation of triazacyclononane into the metal phosphonate backbones. <i>Inorganic Chemistry</i> , 2006 , 45, 1124-9	5.1	57
77	Homochiral lanthanide phosphonates with brick-wall-shaped layer structures showing chiroptical and catalytical properties. <i>Inorganic Chemistry</i> , 2009 , 48, 1901-5	5.1	56
76	Lanthanide phosphonates with pseudo-D _{5h} local symmetry exhibiting magnetic and luminescence bifunctional properties. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 558-566	6.8	49
75	Multiple-Step Humidity-Induced Single-Crystal to Single-Crystal Transformations of a Cobalt Phosphonate: Structural and Proton Conductivity Studies. <i>Inorganic Chemistry</i> , 2016 , 55, 3706-12	5.1	45
74	Tuning the spin state of cobalt in a Co-La heterometallic complex through controllable coordination sphere of La. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5504-8	16.4	41

73	An enantioenriched vanadium phosphonate generated via asymmetric chiral amplification of crystallization from achiral sources showing a single-crystal-to-single-crystal dehydration process. <i>Chemical Communications</i> , 2012 , 48, 6565-7	5.8	39
72	Breathing effect in a cobalt phosphonate upon dehydration/rehydration: a single-crystal-to-single-crystal study. <i>Chemistry - A European Journal</i> , 2013 , 19, 16394-402	4.8	39
71	Reversible ON-OFF switching of single-molecule-magnetism associated with single-crystal-to-single-crystal structural transformation of a decanuclear dysprosium phosphonate. <i>Chemical Science</i> , 2018 , 9, 6424-6433	9.4	38
70	Cyclic single-molecule magnets: from the odd-numbered heptanuclear to a dimer of heptanuclear dysprosium clusters. <i>Chemical Communications</i> , 2016 , 52, 2314-7	5.8	35
69	Polar metal phosphonate containing unusual μ_4 -OH bridged double chains showing canted antiferromagnetism with large coercivity. <i>Chemical Communications</i> , 2014 , 50, 3979-81	5.8	35
68	Defective Metal-Organic Frameworks Incorporating Iridium-Based Metalloligands: Sorption and Dye Degradation Properties. <i>Chemistry - A European Journal</i> , 2017 , 23, 6615-6624	4.8	32
67	A racemic polar cobalt phosphonate with weak ferromagnetism. <i>Chemistry - A European Journal</i> , 2012 , 18, 10839-42	4.8	32
66	Enhanced magnetic hardness in a nanoscale metal-organic hybrid ferrimagnet. <i>Chemistry - A European Journal</i> , 2012 , 18, 9534-42	4.8	32
65	Coupling photo-, mechano- and thermochromism and single-ion-magnetism of two mononuclear dysprosium-anthracene-phosphonate complexes. <i>Chemical Communications</i> , 2018 , 54, 3278-3281	5.8	31
64	A luminescent heptanuclear DyIr6 complex showing field-induced slow magnetization relaxation. <i>Chemical Communications</i> , 2014 , 50, 8356-9	5.8	31
63	A Mixed-Valent Uranium Phosphonate Framework Containing U(IV) , U(V) , and U(VI). <i>Chemistry - A European Journal</i> , 2016 , 22, 11954-7	4.8	31
62	Supramolecular Isomerism of One-Dimensional Copper(II) Phosphonate and Its Influence on the Magnetic Properties. <i>ChemPlusChem</i> , 2012 , 77, 1087-1095	2.8	29
61	Chiral expression from molecular to macroscopic level via pH modulation in terbium coordination polymers. <i>Nature Communications</i> , 2017 , 8, 2131	17.4	28
60	Sodium cobalt aminomethylidenediphosphonate with a novel open framework structure. <i>Inorganic Chemistry</i> , 2003 , 42, 5037-9	5.1	28
59	Dual Intrarecticular Oxidation of Mixed-Ligand Metal-Organic Frameworks for Stepwise Electrochemiluminescence. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3049-3053	16.4	26
58	pH-controlled polymorphism in a layered dysprosium phosphonate and its impact on the magnetization relaxation. <i>Chemical Communications</i> , 2015 , 51, 2649-52	5.8	24
57	Hofmann Metal-Organic Framework Monolayer Nanosheets as an Axial Coordination Platform for Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12986-12992	9.5	23
56	Homochiral cobalt phosphonates containing Γ -type chains with a tunable interlayer distance and a field-induced phase transition. <i>Chemistry - A European Journal</i> , 2014 , 20, 17137-42	4.8	23

55	Homochiral metal phosphonate nanotubes. <i>Chemical Communications</i> , 2015 , 51, 15141-4	5.8	21
54	Exfoliated layered copper phosphonate showing enhanced adsorption capability towards Pb ions. <i>Chemical Communications</i> , 2014 , 50, 10622-5	5.8	19
53	Polymorphic Lanthanide Phosphonates Showing Distinct Magnetic Behavior. <i>Inorganic Chemistry</i> , 2016 , 55, 5297-304	5.1	18
52	Homochiral iron(ii)-based metal-organic nanotubes: metamagnetism and selective nitric oxide adsorption in a confined channel. <i>Chemical Communications</i> , 2019 , 55, 2825-2828	5.8	17
51	Homochiral mononuclear Dy-Schiff base complexes showing field-induced double magnetic relaxation processes. <i>Dalton Transactions</i> , 2016 , 45, 690-5	4.3	16
50	Metal-Metalloligand Coordination Polymer Embedding Triangular Cobalt-Oxo Clusters: Solvent- and Temperature-Induced Crystal to Crystal Transformations and Associated Magnetism. <i>Inorganic Chemistry</i> , 2020 , 59, 8935-8945	5.1	15
49	Interplay of anthracene luminescence and dysprosium magnetism by steric control of photodimerization. <i>Dalton Transactions</i> , 2019 , 48, 13769-13779	4.3	15
48	Formation Mechanism and Reversible Expansion and Shrinkage of Magnesium-Based Homochiral Metal-Organic Nanotubes. <i>Chemistry - A European Journal</i> , 2017 , 23, 1086-1092	4.8	15
47	Chirality- and pH-Controlled Supramolecular Isomerism in Cobalt Phosphonates and Its Impact on the Magnetic Behavior. <i>Chemistry - A European Journal</i> , 2015 , 21, 17336-43	4.8	15
46	Metal phosphonates incorporating metalloligands: assembly, structures and properties. <i>Chemical Communications</i> , 2020 , 56, 12090-12108	5.8	15
45	Microwave-assisted hydrothermal syntheses of metal phosphonates with layered and framework structures. <i>Dalton Transactions</i> , 2007 , 4222	4.3	14
44	Thermo- and light-triggered reversible interconversion of dysprosium-anthracene complexes and their responsive optical, magnetic and dielectric properties. <i>Chemical Science</i> , 2020 , 12, 929-937	9.4	13
43	Polymorphic layered copper phosphonates: exfoliation and proton conductivity studies. <i>Dalton Transactions</i> , 2019 , 48, 6539-6545	4.3	12
42	Homochiral Erbium Coordination Polymers: Salt-Assisted Conversion from Triple to Quadruple Helices. <i>Crystal Growth and Design</i> , 2018 , 18, 4045-4053	3.5	12
41	Proton Conductivities Manipulated by the Counter-Anions in 2D Co-Ca Coordination Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4476-4482	2.3	12
40	Modulating the microporosity of cobalt phosphonates via positional isomerism of co-linkers. <i>CrystEngComm</i> , 2015 , 17, 8926-8932	3.3	11
39	Synergetic magnetic and luminescence switching via solid state phase transitions of the dysprosium-dianthracene complex. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7369-7377	7.1	11
38	Counteranion Modulated Crystal Growth and Function of One-Dimensional Homochiral Coordination Polymers: Morphology, Structures, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2018 , 57, 12143-12154	5.1	11

37	Two- and Three-Dimensional Heterometallic Ln[Ru- μ -Ammonium Diphosphonate] Nets: Structures, Porosity, Magnetism, and Proton Conductivity. <i>Inorganic Chemistry</i> , 2019 , 58, 14034-14045	5.1	10
36	Enantioenriched Cobalt Phosphonate Containing π -Type Chains and Showing Slow Magnetization Relaxation. <i>Inorganic Chemistry</i> , 2016 , 55, 9521-9523	5.1	10
35	Racemic metal phosphonates based on 1-phosphonomethyl-2-benzimidazol-piperidine. <i>CrystEngComm</i> , 2013 , 15, 10316	3.3	10
34	Tuning the Spin State of Cobalt in a CoIIa Heterometallic Complex through Controllable Coordination Sphere of La. <i>Angewandte Chemie</i> , 2011 , 123, 5618-5622	3.6	10
33	Switching on Single-Molecule-Magnet Behavior in MnIII-Schiff Base Out-of-Plane Dimers by the Phosphonate Terminal Ligand. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1042-1050	2.3	9
32	Anhydrous Superprotonic Conductivity of a Uranyl-Based MOF from Ambient Temperature to 110 $^{\circ}\text{C}$ 2021 , 3, 744-751		9
31	Cyclic Single-Molecule Magnets: From Even-Numbered Hexanuclear to Odd-Numbered Heptanuclear Dysprosium Clusters. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 3184-3190	2.3	9
30	Aryl-aryl coupling in a polycyclic aromatic hydrocarbon with embedded tetracoordinate boron centre. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5060-5065	3.9	8
29	Pillared Layered Metal Phosphonates Showing Field-Induced Magnetic Transitions. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 895-901	2.3	8
28	Copper and cadmium phosphonates based on 2-quinolinephosphonate. <i>Solid State Sciences</i> , 2007 , 9, 686-692	3.4	8
27	Luminescent Ir(III)-Ln(III) coordination polymers showing slow magnetization relaxation. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4580-4592	6.8	8
26	NalrCl: Spin-Orbital-Induced Semiconductor Showing Hydration-Dependent Structural and Magnetic Variations. <i>Inorganic Chemistry</i> , 2018 , 57, 13252-13258	5.1	8
25	Octahedral erbium and ytterbium ion encapsulated in phosphorescent iridium complexes showing field-induced magnetization relaxation. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 484, 139-145	2.8	7
24	From a layered iridium(iii)-cobalt(ii) organophosphonate to an efficient oxygen-evolution-reaction electrocatalyst. <i>Chemical Communications</i> , 2019 , 55, 13920-13923	5.8	7
23	An ultra-stable hafnium phosphonate MOF platform for comparing the proton conductivity of various guest molecules/ions. <i>Chemical Communications</i> , 2021 , 57, 1238-1241	5.8	7
22	Incorporating Paramagnetic IrIVCl ₆ $^{2-}$ H-Bonded Networks of Metal-Phosphonate Hydrate: Slow Magnetic Relaxation and Proton Conduction. <i>Crystal Growth and Design</i> , 2019 , 19, 4836-4843	3.5	6
21	Cyclometalated Iridium(III) Complexes Incorporating Aromatic Phosphonate Ligands: Syntheses, Structures, and Tunable Optical Properties. <i>ACS Omega</i> , 2019 , 4, 16543-16550	3.9	5
20	Chemically Exfoliated Semiconducting Bimetallic Porphyrinylphosphonate Metal/Organic Layers for Photocatalytic CO ₂ Reduction under Visible Light. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4319-4326	6.1	5

19	Layered manganese 4-phosphonoisophthalates (4-piH4) embedding Mn-O chains with metamagnetism in Mn3(4-piH)2(H2O)3H2O. <i>Science China Chemistry</i> , 2012 , 55, 1047-1054	7.9	4
18	Controllable Macroscopic Chirality of Coordination Polymers through pH and Anion-Mediated Weak Interactions. <i>Chemistry - A European Journal</i> , 2021 , 27, 16722-16734	4.8	4
17	Temperature controlled formation of polar copper phosphonates showing large dielectric anisotropy and a dehydration-induced switch from ferromagnetic to antiferromagnetic interactions. <i>Chemical Communications</i> , 2018 , 54, 6276-6279	5.8	4
16	Dynamic Motion of Organic Ligands in Polar Layered Cobalt Phosphonates. <i>Chemistry - A European Journal</i> , 2018 , 24, 13495-13503	4.8	4
15	Heterometallic uranyl-organic frameworks incorporating manganese and copper: Structures, ammonia sorption and magnetic properties. <i>Polyhedron</i> , 2021 , 205, 115327	2.7	4
14	Constructing Asymmetrical Ni-Centered {NiNO} Octahedra in Layered Metal-Organic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12841-12849	16.4	3
13	Polar layered coordination polymers incorporating triazacyclononane-triphosphonate metalloligands. <i>Dalton Transactions</i> , 2020 , 49, 3758-3765	4.3	3
12	Studying the Proton Conduction through the Grain Surface of UiO-66-NH2. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8198-8204	6.1	3
11	Cobalt(II)-dianthracene Frameworks: Assembly, Exfoliation and Properties. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1456-1465	4.5	3
10	Thermo-induced structural transformation with synergistic optical and magnetic changes in ytterbium and erbium complexes. <i>Chinese Chemical Letters</i> , 2021 , 32, 1519-1522	8.1	3
9	Diradicals or Zwitterions: The Chemical States of m -Benzoquinone and Structural Variation after Storage of Li Ions. <i>CCS Chemistry</i> , 2812-2825	7.2	3
8	Uranyl phosphonates: crystalline materials and nanosheets for temperature sensing. <i>Dalton Transactions</i> , 2021 , 50, 17129-17139	4.3	2
7	From helices to superhelices: hierarchical assembly of homochiral van der Waals 1D coordination polymers. <i>Chemical Science</i> , 2021 , 12, 12619-12630	9.4	2
6	Dysprosiumdianthracene framework showing thermo-responsive magnetic and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10749-10758	7.1	2
5	A New Strategy towards Efficient and Recyclable Carbon-Chloride Bond Cleavage of Environmentally Harmful Organochlorides through Electrochemical Catalysis in NonAqueous Media. <i>ChemistrySelect</i> , 2017 , 2, 645-649	1.8	1
4	Layer or Tube? Uncovering Key Factors Determining the Rolling-up of Layered Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17587-17598	16.4	1
3	Homochiral Dysprosium Phosphonate Nanowires: Morphology Control and Magnetic Dynamics. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2648-2658	4.5	1
2	Two three-dimensional mixed-ligated cobalt phosphonate coordination polymers: Syntheses, crystal structures and magnetic properties. <i>Journal of Molecular Structure</i> , 2022 , 1248, 131456	3.4	1

- 1 Polar Lanthanide Anthracene Complexes Exhibiting Magnetic, Luminescent and Dielectric Properties. *European Journal of Inorganic Chemistry*, **2021**, 2021, 4207 2.3 0