Zhong-Ming Sun

List of Publications by Year
in descending order

118 papers	5,177 citations	87723 38 h-index	91712 69 g-index
122 all docs	122 docs citations	122 times ranked	4315 citing authors

#	Article	IF	Citations
1	A layer-structured Eu-MOF as a highly selective fluorescent probe for Fe3+ detection through a cation-exchange approach. Journal of Materials Chemistry, 2012, 22, 16920.	6.7	433
2	MOF-76: from a luminescent probe to highly efficient U^{VI} sorption material. Chemical Communications, 2013, 49, 10415-10417.	2.2	257
3	A Series of Multifunctional Metalâ€“Organic Frameworks Showing Excellent Luminescent Sensing, Sensitization, and Adsorbent Abilities. Chemistry - A European Journal, 2015, 21, 11475-11482.	1.7	219
4	Solvents control over the degree of interpenetration in metal-organic frameworks and their high sensitivities for detecting nitrobenzene at ppm level. Journal of Materials Chemistry, 2012, 22, 15939.	6.7	173
5	Fe₃O₄@ZIF-8: a magnetic nanocomposite for highly efficient UO₂²⁺ adsorption and selective UO₂²⁺/Ln³⁺ separation. Chemical Communications, 2017, 53, 4199-4202.	2.2	168
6	Tunable emission based on lanthanide(iii) metalâ€“organic frameworks: an alternative approach to white light. Journal of Materials Chemistry, 2012, 22, 8868.	6.7	158
7	Polyoxometalates-based heterometallic organicâ€“inorganic hybrid materials for rapid adsorption and selective separation of methylene blue from aqueous solutions. Chemical Communications, 2015, 51, 3336-3339.	2.2	158
8	Highly selective acetone fluorescent sensors based on microporous Cd(ii) metalâ€“organic frameworks. Journal of Materials Chemistry, 2012, 22, 23201.	6.7	140
9	Lanthanide Metalâ€“Organic Frameworks Showing Luminescence in the Visible and Nearâ€Infrared Regions with Potential for Acetone Sensing. Chemistry - A European Journal, 2013, 19, 17172-17179.	1.7	127
10	Structural chemistry of uranium phosphonates. Coordination Chemistry Reviews, 2015, 303, 86-109.	9.5	121
11	Fast response and highly selective sensing of amine vapors using a luminescent coordination polymer. Chemical Communications, 2014, 50, 10506-10509.	2.2	119
12	A microporous Cu-MOF with optimized open metal sites and pore spaces for high gas storage and active chemical fixation of CO₂. Chemical Communications, 2016, 52, 11147-11150.	2.2	119
13	Pd₂@Sn₁₈⁴⁻:â€‰ Fusion of Two Endohedral Stannaspherenes. Journal of the American Chemical Society, 2007, 129, 9560-9561.	6.6	116
14	Synthesis, Characterization, and Crystal Structures of Three New Divalent Metal Carboxylateâ”Sulfonates with a Layered and One-Dimensional Structure. Inorganic Chemistry, 2004, 43, 336-341.	1.9	109
15	An ultrastable porous metalâ€“organic framework luminescent switch towards aromatic compounds. Materials Horizons, 2015, 2, 245-251.	6.4	98
16	An All-Metal Aromatic Sandwich Complex [Sb₃Au₃Sb₃]^{3â€“}. Journal of the American Chemical Society, 2015, 137, 10954-10957.	6.6	82
17	An ultrastable zirconium-phosphonate framework as bifunctional catalyst for highly active CO₂chemical transformation. Chemical Communications, 2017, 53, 1293-1296.	2.2	79
18	From 1D Chain to 3D Framework Uranyl Diphosphonates: Syntheses, Crystal Structures, and Selective Ion Exchange. Inorganic Chemistry, 2012, 51, 11458-11465.	1.9	78

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19	3-Fold-Interpenetrated Uraniumâ€“Organic Frameworks: New Strategy for Rationally Constructing Three-Dimensional Uranyl Organic Materials. Inorganic Chemistry, 2012, 51, 3103-3107.	1.9	74
20	A cluster-based mesoporous Ti-MOF with sodalite supercages. Chemical Communications, 2017, 53, 11670-11673.	2.2	74
21	Syntheses and Structures of a Series of Uranyl Phosphonates and Sulfonates: An Insight into Their Correlations and Discrepancies. Inorganic Chemistry, 2013, 52, 2736-2743.	1.9	72
22	Porous Anionic Uranylâ€“Organic Networks for Highly Efficient Cs⁺ Adsorption and Investigation of the Mechanism. Inorganic Chemistry, 2018, 57, 4419-4426.	1.9	70
23	Synthesis, Structures, and Properties of Uranyl Hybrids Constructed by a Variety of Mono- and Polycarboxylic Acids. Inorganic Chemistry, 2013, 52, 12394-12402.	1.9	64
24	Photochromic Terbium Phosphonates with Photomodulated Luminescence and Metal Ion Sensitive Detection. Chemistry - A European Journal, 2016, 22, 15451-15457.	1.7	63
25	Recent advances in structural chemistry of Group 14 Zintl ions. Coordination Chemistry Reviews, 2019, 382, 32-56.	9.5	62
26	Luminescent lanthanide metalâ€“organic frameworks with a large SHG response. Chemical Communications, 2012, 48, 11139.	2.2	61
27	Allâ€Metal Antiaromaticity in Sb₄â€Type Lanthanocene Anions. Angewandte Chemie - International Edition, 2016, 55, 5531-5535.	7.2	59
28	Peculiar Allâ€Metal Ïƒâ€Aromaticity of the [Au₂Sb₁₆]^{4â^'} Anion in the Solid State. Angewandte Chemie - International Edition, 2016, 55, 15344-15346.	7.2	52
29	Aromaticity and Antiaromaticity in Zintl Clusters. Chemistry - A European Journal, 2018, 24, 14583-14597.	1.7	52
30	[Co₂@Ge₁₆]^{4â^'}: Localized versus Delocalized Bonding in Two Isomeric Intermetalloid Clusters. Chemistry - A European Journal, 2018, 24, 699-705.	1.7	51
31	Tailor-Made Zinc Uranyl Diphosphonates from Layered to Framework Structures. Crystal Growth and Design, 2012, 12, 4669-4675.	1.4	47
32	Dynamically controlled one-pot synthesis of heterogeneous coreâ€“shell MOF single crystals using guest molecules. Chemical Communications, 2014, 50, 11653-11656.	2.2	47
33	Synthesis, Crystal Structures, and Photochemical Properties of a Family of Heterometallic Titanium Oxo Clusters. Inorganic Chemistry, 2019, 58, 6312-6319.	1.9	47
34	A copper-phosphonate network as a high-performance heterogeneous catalyst for the CO₂ cycloaddition reactions and alcoholysis of epoxides. Dalton Transactions, 2017, 46, 6756-6761.	1.6	45
35	Syntheses, Structures, Luminescence, and Photocatalytic Properties of a Series of Uranyl Coordination Polymers. Crystal Growth and Design, 2014, 14, 5904-5911.	1.4	44
36	Designed Cluster Assembly of Multidimensional Titanium Coordination Polymers: Syntheses, Crystal Structure and Properties. Chemistry - A European Journal, 2018, 24, 2952-2961.	1.7	42

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37	A highly stable MnII phosphonate as a highly efficient catalyst for CO2 fixation under ambient conditions. Chemical Communications, 2018, 54, 1758-1761.	2.2	40
38	Structural Variation within Heterometallic Uranyl Hybrids Based on Flexible Alkyldiphosphonate Ligands. Crystal Growth and Design, 2014, 14, 1366-1374.	1.4	39
39	Entangled Uranyl Organic Frameworks with (10,3)-b Topology and Polythreading Network: Structure, Luminescence, and Computational Investigation. Inorganic Chemistry, 2016, 55, 5540-5548.	1.9	39
40	Interpenetrated Uranylâ€“Organic Frameworks with bor and pts Topology: Structure, Spectroscopy, and Computation. Inorganic Chemistry, 2017, 56, 14147-14156.	1.9	39
41	Synthesis and structure of a family of rhodium polystannide clusters [Rh@Sn₁₀]^{3â€“}, [Rh@Sn₁₂]^{3â€“}, [Rh₂@Sn₁₇]^{6â€“} and the first triply-fused stannide, [Rh₃@Sn₂₄]^{5â€“}. Chemical Science, 2019, 10, 4394-4401.	3.7	38
42	Solvent-Controlled Syntheses, Structure, and Magnetic Properties of Trinuclear Mn(II)-Based Metalâ€“Organic Frameworks. Crystal Growth and Design, 2012, 12, 5693-5700.	1.4	37
43	Hydrothermal synthesis, characterization and crystal structures of two new layered lead(ii) diphosphonates. New Journal of Chemistry, 2003, 27, 1326.	1.4	36
44	Diversity of Functionalized Germanium Zintl Clusters: Syntheses and Theoretical Studies of [Ge9PdPPh3]3â^' and [Ni@(Ge9PdPPh3)]2â^'. Journal of Cluster Science, 2009, 20, 601-609.	1.7	34
45	A Multifunctional Mn^{II} Phosphonate for Rapid Separation of Methyl Orange and Electronâ€Transfer Photochromism. Chemistry - A European Journal, 2016, 22, 11652-11659.	1.7	34
46	Construction of Uranyl Organic Hybrids by Phosphonate and in Situ Generated Carboxyphosphonate Ligands. Inorganic Chemistry, 2017, 56, 1669-1678.	1.9	34
47	Reactivity Studies of [Co@Sn₉]^{4â€“} with Transition Metal Reagents: Bottom-Up Synthesis of Ternary Functionalized Zintl Clusters. Inorganic Chemistry, 2018, 57, 3025-3034.	1.9	32
48	Flexible Diphosphonic Acids for the Isolation of Uranyl Hybrids with Heterometallic U^{VI}â•Oâ€”Zn^{II} Cationâ€“Cation Interactions. Inorganic Chemistry, 2013, 52, 8288-8290.	1.9	31
49	Syntheses and Structures of Uranyl Ethylenediphosphonates: From Layers to Elliptical Nanochannels. Inorganic Chemistry, 2013, 52, 7100-7106.	1.9	31
50	A Nanoscale Multiresponsive Luminescent Sensor Based on a Terbium(III) Metalâ€“Organic Framework. Chemistry - an Asian Journal, 2015, 10, 1703-1709.	1.7	31
51	Ïƒâ€Aromaticityâ€Induced Stabilization of Heterometallic Supertetrahedral Clusters [Zn₆Ge₁₆]^{4â^'} and [Cd₆Ge₁₆]^{4â^'}. Angewandte Chemie - International Edition, 2020, 59, 17286-17290.	7.2	31
52	Chiral transformations of achiral porous metalâ€“organic frameworks via a stepwise approach. Chemical Communications, 2012, 48, 10419.	2.2	30
53	Conformational 2-Fold Interpenetrated Uranyl Supramolecular Isomers Based on (6,3) Sheet Topology: Structure, Luminescence, and Ion Exchange. Inorganic Chemistry, 2018, 57, 15370-15378.	1.9	30
54	Construction of porous Mn(ii)-based metalâ€“organic frameworks by flexible hexacarboxylic acid and rigid coligands. CrystEngComm, 2013, 15, 8320.	1.3	28

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55	Structure and Bonding in [Sb@In₈Sb₁₂]^{3â^'} and [Sb@In₈Sb₁₂]^{5â^'}. Angewandte Chemie - International Edition, 2019, 58, 8367-8371.	7.2	27
56	Selfâ€Assembly of Tunable Heterometallic Lnâ€“Ru Coordination Polymers with Nearâ€Infrared Luminescence and Magnetocaloric Effect. Chemistry - A European Journal, 2017, 23, 2852-2857.	1.7	26
57	Synthesis, characterization and electronic properties of an endohedral plumbaspherene [Au@Pb₁₂]^{3â^'}. Inorganic Chemistry Frontiers, 2017, 4, 1393-1396.	3.0	26
58	Symmetry Reduction upon Size Mismatch: The Nonâ€Icosahedral Intermetalloid Cluster [Co@Ge₁₂]^{3â^'}. Chinese Journal of Chemistry, 2018, 36, 1165-1168.	2.6	25
59	A highly efficient â€œmetalloligandâ€•strategy for the synthesis of ternary Lnâ€“Ruâ€“W hybrids. Chemical Communications, 2013, 49, 7911.	2.2	24
60	The First Family of Actinide Carboxyphosphinates: Twoâ€•and Threeâ€Dimensional Uranyl Coordination Polymers. European Journal of Inorganic Chemistry, 2014, 2014, 5378-5384.	1.0	24
61	Uranyl Carboxyphosphonates Derived from Hydrothermal in Situ Ligand Reaction: Syntheses, Structures, and Computational Investigations. Inorganic Chemistry, 2015, 54, 8617-8624.	1.9	24
62	[Cu₄@E₁₈]^{4â€“} (E = Sn, Pb): Fused Derivatives of Endohedral Stannaspherene and Plumbaspherene. Journal of the American Chemical Society, 2020, 142, 13288-13293.	6.6	23
63	Site-Selective CO₂ Reduction over Highly Dispersed Ru-SnO_x Sites Derived from a [Ru@Sn₉]^{6â€“} Zintl Cluster. ACS Catalysis, 2020, 10, 7808-7819.	5.5	23
64	Metalâ€“organic frameworks constructed from a tetrahedral silicon-based linker for selective adsorption of methylene blue. CrystEngComm, 2017, 19, 1564-1570.	1.3	22
65	All-metal Ï*f*-antiaromaticity in dimeric cluster anion {[CuGe₉Mes]₂}^{4â^'}. Chemical Communications, 2020, 56, 6583-6586.	2.2	22
66	[Ge₅Ni₂(CO)₃]^{2â^'}: the first functionalized cluster of closo-[Ge₅]^{2â^'}. Chemical Communications, 2017, 53, 6315-6318.	2.2	21
67	Record Low Ionization Potentials of Alkali Metal Complexes with Crown Ethers and Cryptands. ChemPhysChem, 2019, 20, 2060-2062.	1.0	21
68	A fast and highly selective Congo red adsorption material based on a cadmium-phosphonate network. Dalton Transactions, 2020, 49, 3700-3705.	1.6	21
69	Spherical Aromaticity of Allâ€Metal [Bi@In₈Bi₁₂]^{3â^'/5â^'} Clusters. Chemistry - A European Journal, 2020, 26, 2073-2079.	1.7	21
70	Peculiar Allâ€Metal Ï*f*â€Aromaticity of the [Au₂Sb₁₆]^{4â^'} Anion in the Solid State. Angewandte Chemie, 2016, 128, 15570-15572.	1.6	19
71	Structural Variations of the First Family of Heterometallic Uranyl Carboxyphosphinate Assemblies by Synergy between Carboxyphosphinate and Imidazole Ligands. Crystal Growth and Design, 2016, 16, 2011-2018.	1.4	19
72	A sandwich-type cluster containing Ge@Pd3 planar fragment flanked by aromatic nonagermanide caps. Nature Communications, 2020, 11, 5286.	5.8	19

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73	Solution-Based Group 14 Zintl Anions: New Frontiers and Discoveries. Accounts of Chemical Research, 2021, 54, 1506-1516.	7.6	19
74	Inorganic Ferrocene Analogue [Fe(P₄)₂]^{2â€“}. Journal of the American Chemical Society, 2022, 144, 6698-6702.	6.6	19
75	Particular Handedness Excess through Symmetry-Breaking Crystallization of a 3D Cobalt Phosphonate. Inorganic Chemistry, 2016, 55, 537-539.	1.9	18
76	A family of lead clusters with precious metal cores. Nature Communications, 2020, 11, 3477.	5.8	18
77	A microporous Cd-MOF based on a hexavalent silicon-centred connector and luminescence sensing of small molecules. New Journal of Chemistry, 2017, 41, 1137-1141.	1.4	17
78	A Ni^{II}-cluster-based MOF as an efficient heterogeneous catalyst for the chemical transformation of CO₂. Dalton Transactions, 2019, 48, 1246-1250.	1.6	17
79	[Bi₆Mo₃(CO)₉]^{4â^’}: a multiple local Ïƒ-aromatic cluster containing a distorted Bi₆ triangular prism. Chemical Communications, 2021, 57, 3656-3659.	2.2	15
80	Ca6Cu2Sn7:Â Novel 3D Open Framework with Unusual Sn4Tetramers. Inorganic Chemistry, 2005, 44, 9242-9246.	1.9	14
81	Construction of Cu(ii) coordination polymers based on semi-rigid tetrahedral pyridine ligands. RSC Advances, 2013, 3, 25065.	1.7	14
82	A niobium-necked cluster [As₃Nb(As₃Sn₃)]^{3â^’}with aromatic Sn₃^{2â^’}. Dalton Transactions, 2016, 45, 3874-3879.	1.6	14
83	Ternary aromatic and anti-aromatic clusters derived from the hypho species [Sn2Sb5]3â^’. Nature Communications, 2021, 12, 4465.	5.8	14
84	Allâ€Metal Antiaromaticity in Sb₄â€Type Lanthanocene Anions. Angewandte Chemie, 2016, 128, 5621-5625.	1.6	11
85	[(CrGe9)Cr2(CO)13]4â^’: A disubstituted case of ten-vertex closo cluster with spherical aromaticity. Chinese Chemical Letters, 2022, 33, 2139-2142.	4.8	10
86	Isolation of a series of uranium organophosphinates. CrystEngComm, 2014, 16, 8073-8080.	1.3	9
87	Linearly bridging CO2 in a metalâ€“organic framework. Chemical Communications, 2015, 51, 8446-8449.	2.2	9
88	Structural isomerism in the [(Ni@Sn₉)In(Ni@Sn₉)]^{5â^’} Zintl ion. Dalton Transactions, 2019, 48, 15888-15895.	1.6	9
89	Ïƒâ€Aromaticityâ€Induced Stabilization of Heterometallic Supertetrahedral Clusters [Zn₆Ge₁₆]^{4â^’} and [Cd₆Ge₁₆]^{4â^’}. Angewandte Chemie, 2020, 132, 17439-17443.	1.6	9
90	[Sn 8] 6â^’ â€Bridged Mixedâ€Valence Zn I /Zn II in {[K 2 ZnSn 8 (ZnMes)] 2 } 4â^’ Inverse Sandwichâ€Type Cluster Supported by a Zn I â^’Zn I Bond. Angewandte Chemie - International Edition, 2021, 60, 9990-9995.	7.2	9

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91	Symmetry collapse due to the presence of multiple local aromaticity in Ge244â˜. Nature Communications, 2022, 13, 2149.	5.8	9
92	Sn₃₆^{8â˜}: a 2.7 nm naked aromatic tin rod. Chemical Communications, 2022, 58, 6223-6226.	2.2	9
93	Bisactinyl halogenated complexes: relativistic density functional theory calculation and experimental synthesis. RSC Advances, 2013, 3, 1572-1582.	1.7	8
94	A nanosized heterometallic {Zn₂Ru₃} coordination cage templated by various polyoxometalates. Dalton Transactions, 2014, 43, 17244-17247.	1.6	8
95	[Sb4Au4Sb4]2â˜: A designer all-metal aromatic sandwich. Journal of Chemical Physics, 2016, 145, 044308.	1.2	8
96	Recent Advances in Aromatic Antimony Clusters. Chinese Journal of Chemistry, 2018, 36, 955-960.	2.6	8
97	Structure and Bonding in [Sb@In 8 Sb 12] 3â˜ and [Sb@In 8 Sb 12] 5â˜. Angewandte Chemie, 2019, 131, 8455-8459.	1.6	8
98	Efficient conversion of cellulose to 5-hydroxymethylfurfural catalyzed by a cobalt-phosphonate catalyst. Sustainable Energy and Fuels, 2020, 4, 5795-5801.	2.5	8
99	[<scp>As₃M</scp>(<scp>As₃Pb₃</scp>)]^{3â˜} (M = Nb,) Tj ETQq1 1 0.784314 rg [Pb₃]^{2â˜}. Chinese Journal of Chemistry, 2021, 39, 1953-1957.	2.6	8
100	Synthesis and Characterization of Ternary Clusters Containing the [As₁₆]^{10â€“} Anion, [MMâ€²As₁₆]^{4â€“} (M = Nb or Ta; Mâ€² = Cu or Ag). Inorganic Chemistry, 2022, 61, 4421-4427.	4.8	8
101	Novel Corrugated In9Anionic Layer in Li2Y5In9:Â Square Pyramidal In5Clusters Interconnected by Unusual Butterfly In4Clusters. Inorganic Chemistry, 2005, 44, 6545-6549.	1.9	7
102	Synthesis and Structure of Binary Copper/Silverâ€“Arsenic Clusters Derived from Zintl Ion As₇^{3â€“}. Chinese Journal of Chemistry, 2022, 40, 65-70.	2.6	7
103	Recent Advances in Rareâ€Earth Polypnictides. Chinese Journal of Chemistry, 2020, 38, 295-304.	2.6	6
104	Open Shells in Endohedral Clusters: Structure and Bonding in the [Fe₂@Ge₁₆]^{4â€“} Anion and Comparison to Isostructural [Co₂@Ge₁₆]^{4â€“}. Journal of Physical Chemistry A, 2021, 125, 4578-4588.	1.1	5
105	Synthesis, Structure and Bonding in Pentagonal Bipyramidal Cluster Compounds Containing a cyclo-Sn5 Ring, [(CO)3MSn5M(CO)3]4â˜ (M = Cr, Mo). Inorganics, 2022, 10, 75.	1.2	5
106	[Co₂@(Ge₁₇Ni)]^{4â˜}: the first edge-sharing double-cage endohedral germanide. Chemical Communications, 2022, 58, 3190-3193.	2.2	4
107	Heterometallic zinc uranium oxyfluorides incorporating imidazole ligands. Chinese Chemical Letters, 2015, 26, 641-645.	4.8	3
108	Layered and three-dimensional uranylâ€“organic assemblies with 4,4â€²-oxidiphthalic acid. Chinese Chemical Letters, 2016, 27, 325-329.	4.8	2

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109	Zintl chemistry: From Zintl ions to Zintl clusters. , 2021, , .		2
110	[Cd(Sn9)2]6â^' and [Cd(Ni@Sn9)2]6â^': Reactivity and coordination chemistry of empty and Ni-centered [Sn9]4â^' Zintl ions. Chinese Chemical Letters, 2023, 34, 107207.	4.8	2
111	Missing Link in the Growth of Lead-Based Zintl Clusters: Isolation of the Dimeric Plumbaspherene [Cu₄Pb₂₂]^{4â€“}. Journal of the American Chemical Society, 2022, 144, 8007-8017.	6.6	2
112	Spherical aromaticity in inorganic chemistry. , 2021, , 447-489.		1
113	Electronic structures and properties of dianionic pentacarbonyls [TM(CO)5]2â^' (TM = Cr, Mo, W). Physical Chemistry Chemical Physics, 2021, 23, 18640-18646.	1.3	1
114	Ruthenium-mediated assembly and enhanced stability of heterometallic polystannides [Ru2Sn19]4â^' and [Ru2Sn20]6â^'. Nano Research, 2022, 15, 5705-5711.	5.8	1
115	Synthesis and characterisation of the ternary intermetalloid clusters {M@[As₈(ZnMes)₄]}^{3â^'} (M = Nb, Ta) from binary [M@As₈]^{3â^'} precursors. Chemical Science, 2022, 13, 6744-6748.	3.7	1
116	Frontispiece: Aromaticity and Antiaromaticity in Zintl Clusters. Chemistry - A European Journal, 2018, 24, .	1.7	0
117	Record Low Ionization Potentials of Alkali Metal Complexes with Crown Ethers and Cryptands. ChemPhysChem, 2019, 20, 2013.	1.0	0
118	Innentitelbild: Structure and Bonding in [Sb@In₈Sb₁₂]^{3â^'} and [Sb@In₈Sb₁₂]^{5â^'} (Angew. Chem. 25/2019). Angewandte Chemie, 2019, 131, 8330-8330.	1.6	0