Stephen Paul Argent

List of Publications by Year
in descending order

75	2,790	159585 30	182427 51
papers	citations	h-index	g-index

78	78	78	3749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective Adsorption of Sulfur Dioxide in a Robust Metalâ€“Organic Framework Material. Advanced Materials, 2016, 28, 8705-8711.	21.0	214
2	Proton Conduction in a Phosphonate-Based Metalâ€“Organic Framework Mediated by Intrinsic â€œFree Diffusion inside a Sphereâ€• Journal of the American Chemical Society, 2016, 138, 6352-6355.	13.7	186
3	Reversible coordinative binding and separation of sulfur dioxide in a robust metalâ€“organic framework with open copper sites. Nature Materials, 2019, 18, 1358-1365.	27.5	171
4	Structures and Dynamic Behavior of Large Polyhedral Coordination Cages: An Unusual Cage-to-Cage Interconversion. Journal of the American Chemical Society, 2011, 133, 858-870.	13.7	169
5	High-nuclearity Homoleptic and Heteroleptic Coordination Cages Based on Tetra-Capped Truncated Tetrahedral and Cuboctahedral Metal Frameworks. Journal of the American Chemical Society, 2006, 128, 72-73.	13.7	132
6	Coordination Chemistry of Tetradentate N-Donor Ligands Containing Two Pyrazolylâ€'Pyridine Units Separated by a 1,8-Naphthyl Spacer:Â Dodecanuclear and Tetranuclear Coordination Cages and Cyclic Helicates. Inorganic Chemistry, 2006, 45, 3905-3919.	4.0	114
7	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. Angewandte Chemie - International Edition, 2010, 49, 1794-1799.	13.8	108
8	Structures and anion-binding properties of M4L6 tetrahedral cage complexes with large central cavities. Dalton Transactions, 2004, , 3453.	3.3	90
9	Mixed-Ligand Molecular Paneling: Dodecanuclear Cuboctahedral Coordination Cages Based on a Combination of Edge-Bridging and Face-Capping Ligands. Journal of the American Chemical Society, 2008, 130, 11641-11649.	13.7	77
10	Diastereoselective formation and optical activity of an M4L6 cage complex. Chemical Communications, 2005, , 4647.	4.1	75
11	Complexes of Ag(i), Hg(i) and Hg(ii) with multidentate pyrazolyl-pyridine ligands: from mononuclear complexes to coordination polymers via helicates, a mesocate, a cage and a catenate. Dalton Transactions, 2006, , 4996.	3.3	73
12	Modulating proton diffusion and conductivity in metalâ€“organic frameworks by incorporation of accessible free carboxylic acid groups. Chemical Science, 2019, 10, 1492-1499.	7.4	68
13	Rational Synthesis and Investigation of Porous Metalâ€“Organic Framework Materials from a Preorganized Heterometallic Carboxylate Building Block. Inorganic Chemistry, 2017, 56, 1599-1608.	4.0	63
14	Biphenyl macrolactams in anion complexation. Selective naked-eye fluoride recognition. Tetrahedron, 2004, 60, 9471-9478.	1.9	61
15	High-Nuclearity Metalâ€“Organic Nanospheres: A Cd₆₆ Ball. Journal of the American Chemical Society, 2012, 134, 55-58.	13.7	61
16	Enhanced Synthesis of Metalâ€Organic Frameworks on the Surface of Electrospun Cellulose Nanofibers. Advanced Engineering Materials, 2015, 17, 1282-1286.	3.5	59
17	Molecular imaging of polyimide formation. Physical Chemistry Chemical Physics, 2009, 11, 1209.	2.8	55
18	Efficient carbon dioxide hydrogenation to formic acid with buffering ionic liquids. Nature Communications, 2021, 12, 231.	12.8	54

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19	Hostâ€“guest selectivity in a series of isoreticular metalâ€“organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. Chemical Science, 2019, 10, 1098-1106.	7.4	47
20	Homo- and heteropolynuclear helicates with a â€˜2 + 3 + 2â€™-dentate compartmental ligand. New Journal of Chemistry, 2005, 29, 904.	2.8	45
21	Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 14828-14831.	13.7	44
22	A closed molecular cube and an open book: two different products from assembly of the same metal salt and bridging ligand. Dalton Transactions, 2006, , 542-544.	3.3	41
23	Building Multistate Redox-Active Architectures Using Metal-Complex Functionalized Perylene Bis-imides. Inorganic Chemistry, 2009, 48, 10264-10274.	4.0	39
24	Thymine functionalised porphyrins, synthesis and heteromolecular surface-based self-assembly. Chemical Science, 2015, 6, 1562-1569.	7.4	39
25	Selective Gas Uptake and Rotational Dynamics in a (3,24)-Connected Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2021, 143, 3348-3358.	13.7	39
26	Coordinationâ€Cageâ€Catalysed Hydrolysis of Organophosphates: Cavityâ€or Surfaceâ€Based?. Chemistry - A European Journal, 2020, 26, 3065-3073.	3.3	38
27	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 6586-6592.	13.7	37
28	Photophysics and electrochemistry of a platinum-acetylide disubstituted perylenediimide. Dalton Transactions, 2014, 43, 85-94.	3.3	35
29	Bis-morpholine-Substituted Perylene Bisimides: Impact of Isomeric Arrangement on Electrochemical and Spectroelectrochemical Properties. Journal of Organic Chemistry, 2008, 73, 8808-8814.	3.2	32
30	General Method for the Asymmetric Synthesis of Nâ€“H Sulfoximines via Câ€“S Bond Formation. Organic Letters, 2020, 22, 2776-2780.	4.6	32
31	Localization and Delocalization in a Mixed-Valence Dicopper Helicate. Inorganic Chemistry, 2007, 46, 2417-2426.	4.0	28
32	A Perylene Diimide Rotaxane: Synthesis, Structure and Electrochemically Driven Deâ€Threading. Chemistry - A European Journal, 2011, 17, 14746-14751.	3.3	28
33	Photophysics of Cage/Guest Assemblies: Photoinduced Electron Transfer between a Coordination Cage Containing Osmium(II) Luminophores, and Electron-Deficient Bound Guests in the Central Cavity. Inorganic Chemistry, 2019, 58, 2386-2396.	4.0	27
34	Hydrogen-bonding tectons for the construction of bimolecular framework materials. CrystEngComm, 2008, 10, 1782.	2.6	22
35	One Guest or Two? A Crystallographic and Solution Study of Guest Binding in a Cubic Coordination Cage. Chemistry - A European Journal, 2020, 26, 3054-3064.	3.3	21
36	Enantioselective Nickelâ€Catalyzed antiâ€Arylmetallative Cyclizations onto Acyclic Ketones. Chemistry - A European Journal, 2021, 27, 5897-5900.	3.3	21

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37	Asymmetric Construction of Alkaloids by Employing a Key Ï‰â€Transaminase Cascade. Chemistry - A European Journal, 2020, 26, 3729-3732.	3.3	19
38	Catalytic enantioselective arylative cyclizations of alkynyl 1,3-diketones by 1,4-rhodium(<scp>i</scp>) migration. Chemical Science, 2020, 11, 2759-2764.	7.4	19
39	Post-coordination functionalisation of pyrazolyl-based ligands as a route to polynuclear complexes based on an inert Ru^{II}N₆core. New Journal of Chemistry, 2008, 32, 73-82.	2.8	16
40	Supramolecular isomers of metalâ€“organic frameworks: the role of a new mixed donor imidazolate-carboxylate tetradentate ligand. Dalton Transactions, 2012, 41, 4020.	3.3	16
41	Porous Metalâ€“Organic Polyhedra: Morphology, Porosity, and Guest Binding. Inorganic Chemistry, 2020, 59, 15646-15658.	4.0	16
42	Enantioselective nickel-catalyzed arylative and alkenylative intramolecular 1,2-allylations of tethered alleneâ€“ketones. Chemical Science, 2020, 11, 2401-2406.	7.4	16
43	Expanding Ligand Space: Preparation, Characterization, and Synthetic Applications of Air-Stable, Odorless Di-tert-alkylphosphine Surrogates. ACS Catalysis, 2020, 10, 5454-5461.	11.2	16
44	Selective photoinduced charge separation in perylenediimide-pillar[5]arene rotaxanes. Nature Communications, 2022, 13, 415.	12.8	15
45	Bis-thioether-Substituted Perylene Diimides: Structural, Electrochemical, and Spectroelectrochemical Properties. Journal of Organic Chemistry, 2013, 78, 2853-2862.	3.2	14
46	Catalysis of an Aldol Condensation Using a Coordination Cage. Chemistry, 2020, 2, 22-32.	2.2	14
47	Solid state structure and properties of phenyl diketopyrrolopyrrole derivatives. CrystEngComm, 2021, 23, 1796-1814.	2.6	13
48	Enantioselective nickel-catalyzed anti-arylmetallative cyclizations onto acyclic electron-deficient alkenes. Chemical Communications, 2021, 57, 4436-4439.	4.1	13
49	A family of diastereomeric dodecanuclear coordination cages based on inversion of chirality of individual triangular cyclic helicate faces. Chemical Science, 2020, 11, 10167-10174.	7.4	12
50	Lateâ€Stage Functionalization by Chanâ€“Lam Amination: Rapid Access to Potent and Selective Integrin Inhibitors. Chemistry - A European Journal, 2020, 26, 7678-7684.	3.3	12
51	Sustainable sorbitol-derived compounds for gelation of the full range of ethanolâ€“water mixtures. Soft Matter, 2020, 16, 4640-4654.	2.7	11
52	A mixed valence manganese triangle in a trigonal lattice: structure and magnetism. Dalton Transactions, 2011, 40, 5891.	3.3	10
53	The effect of carboxylate position on the structure of a metal organic framework derived from cyclotriveratrylene. CrystEngComm, 2017, 19, 603-607.	2.6	10
54	Multigram Synthesis of Trioxanes Enabled by a Supercritical CO₂ Integrated Flow Process. Organic Process Research and Development, 2021, 25, 1873-1881.	2.7	10

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55	Halochromic coordination polymers based on a triarylmethane dye for reversible detection of acids. Dalton Transactions, 2017, 46, 465-470.	3.3	9
56	Group 11 m-Terphenyl Complexes Featuring Metallophilic Interactions. Inorganic Chemistry, 2021, 60, 10114-10123.	4.0	9
57	Catalyst-free Hydrophosphinylation of Isocyanates and Isothiocyanates under Low-Added-Solvent Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 10704-10709.	6.7	9
58	Halogen-substituted ureas for anion binding: solid state and solution studies. Supramolecular Chemistry, 2017, 29, 875-886.	1.2	8
59	Two-Dimensional Networks of Thiocyanuric Acid and Imine Bases Assisted by Weak Hydrogen Bonds. Crystal Growth and Design, 2019, 19, 5945-5954.	3.0	8
60	Synthesis, characterization and density functional theory of copper(II) complex and cobalt(II) coordination polymer for detection of nitroaromatic explosives. Inorganica Chimica Acta, 2021, 515, 120048.	2.4	7
61	Assembly of high nuclearity clusters from a family of tripodal tris-carboxylate ligands. Polyhedron, 2016, 120, 18-29.	2.2	5
62	Controlling multiple orderings in metal thiocyanate molecular perovskites A_x{Ni[Bi(SCN)₆]}. Chemical Science, 2021, 12, 3516-3525.	7.4	5
63	A Mixedâ€Addenda Mo/W Organofunctionalised Hybrid Polyoxometalate. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	5
64	Gold(I)â€Catalyzed Nucleophilic Allylation of Azinium Ions with Allylboronates. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
65	Hydrogen-bonded chains formed by 5,5-diethylbarbituric acid and bipyridyl tectons. Supramolecular Chemistry, 2012, 24, 40-47.	1.2	4
66	Structural and electronic studies of substituted m-terphenyl lithium complexes. Dalton Transactions, 2021, 50, 722-728.	3.3	4
67	Modulation of the optical properties of soluble N-alkylated 4-pyridyl diketopyrrolopyrrole derivatives. Dyes and Pigments, 2022, 197, 109836.	3.7	4
68	A Cooperative Photoactive Class-I Hybrid Polyoxometalate With Benzothiadiazoleâ€“Imidazolium Cations. Frontiers in Chemistry, 2020, 8, 612535.	3.6	3
69	Synthesis and characterization of chiral copper(ii) coordination polymers with 4,4Â´-bipyridine and lactic acid derivatives. Russian Chemical Bulletin, 2015, 64, 2908-2913.	1.5	2
70	One Guest or Two? A Crystallographic and Solution Study of Guest Binding in a Cubic Coordination Cage. Chemistry - A European Journal, 2020, 26, 2984-2984.	3.3	2
71	Structural and Electronic Studies of Substituted m-Terphenyl Group 12 Complexes. Organometallics, 0, , .	2.3	2
72	A Co-Crystallised Cobalt(II) Cluster of Pyridinedicarboxylic Acid (PDC) as a Luminescent Material for Selective Sensing of Methanol. Journal of Fluorescence, 2021, 31, 1177-1190.	2.5	1

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73	Dilithium cyclohexanediacetate: A layered coordination polymer with non-valent hydrophobic contacts. Journal of Structural Chemistry, 2014, 55, 1099-1100.	1.0	0
74	Gold(I)â€Catalyzed Nucleophilic Allylation of Azinium Ions with Allylboronates. Angewandte Chemie, 0, , .	2.0	0
75	Calcium coordination compounds of anionic forms of hydrogen dipicolinate and quinolinate: synthesis, characterization, crystal structures and DFT studies. Structural Chemistry, 0, , 1.	2.0	0