Stephen A Moggach

List of Publications by Year
in descending order

107	5,235	81839	88593
papers	citations	39 h-index	70 g-index

113	113	113	5892
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The syntheses, structures and spectroelectrochemical properties of 6-oxo-verdazyl derivatives bearing surface anchoring groups. Journal of Materials Chemistry C, 2022, 10, 1896-1915.	2.7	7
2	Discovery of brevijanazines from Aspergillus brevijanus reveals the molecular basis for p-nitrobenzoic acid in fungi. Chemical Communications, 2022, 58, 6296-6299.	2.2	5
3	The alprazolam analogue 4â€²â€chloro deschloroalprazolam identified in seized capsules. Drug Testing and Analysis, 2022, 14, 1672-1680.	1.6	1
4	Iron vs. ruthenium: syntheses, structures and IR spectroelectrochemical characterisation of half-sandwich Group 8 acetylide complexes. New Journal of Chemistry, 2021, 45, 14932-14943.	1.4	7
5	Guest-mediated phase transitions in a flexible pillared-layered metalâ€“organic framework under high-pressure. Chemical Science, 2021, 12, 13793-13801.	3.7	19
6	Synthesis of a diferrocenylvinylidene complex by migration of a ferrocenyl substituent. Chemical Communications, 2021, 57, 4251-4254.	2.2	7
7	Hydrated alkali-B₁₁H₁₄ salts as potential solid-state electrolytes. Journal of Materials Chemistry A, 2021, 9, 15027-15037.	5.2	21
8	Chlorinated metabolites from Streptomyces sp. highlight the role of biosynthetic mosaics and superclusters in the evolution of chemical diversity. Organic and Biomolecular Chemistry, 2021, 19, 6147-6159.	1.5	8
9	Tuning the optical bandgap and piezoresistance in iridium-based molecular semiconductors through ligand modification. Materials Advances, 2021, 2, 5135-5143.	2.6	2
10	Rip It off: Nitro to Nitroso Reduction by Iron Half-Sandwich Complexes. Inorganic Chemistry, 2021, 60, 4986-4995.	1.9	5
11	(Î·⁴-Tetrafluorobenzobarrelene)-Î·¹-((tri-4-fluorophenyl)phosphine)-Î·¹-(2-phenylphenyl)rhodium(I) A Catalyst for the Living Polymerization of Phenylacetylenes. Macromolecules, 2021, 54, 6191-6203.	2.2	6
12	Photophysics of azobenzene constrained in a UiO metalâ€organic framework: effects of pressure, solvation and dynamic disorder. Chemistry - A European Journal, 2021, 27, 14871-14875.	1.7	6
13	Evaluating the crystalline orbital hierarchy and high-pressure structureâ€“property response of an extended-ligand platinum(<scp>ii</scp>) bis(1,2-dioximato) complex. CrystEngComm, 2021, 23, 6359-6364.	1.3	0
14	Evaluating the high-pressure structural response and crystal lattice interactions of the magnetically-bistable organic radical TTTA. CrystEngComm, 2021, 23, 4444-4450.	1.3	6
15	Enhanced Synthesis of oxo-Verdazyl Radicals Bearing Sterically-and Electronically-Diverse C3-Substitents. Organic and Biomolecular Chemistry, 2021, 19, 10120-10138.	1.5	6
16	Characterization of a gold tailings with hypersaline pore fluid. Canadian Geotechnical Journal, 2020, 57, 482-496.	1.4	10
17	Rh(I)(2,5-norbornadiene)(biphenyl)(tris(4-fluorophenyl)phosphine): Synthesis, Characterization, and Application as an Initiator in the Stereoregular (Co)Polymerization of Phenylacetylenes. ACS Macro Letters, 2020, 9, 56-60.	2.3	18
18	Singleâ€Crystal Xâ€Ray Diffraction Study of Pressure and Temperatureâ€Induced Spin Trapping in a Bistable Iron(II) Hofmann Framework. Angewandte Chemie, 2020, 132, 3130-3135.	1.6	1

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19	Singleâ€Crystal Xâ€Ray Diffraction Study of Pressure and Temperatureâ€Induced Spin Trapping in a Bistable Iron(II) Hofmann Framework. Angewandte Chemie - International Edition, 2020, 59, 3106-3111.	7.2	12
20	Guest Removal and External Pressure Variation Induce Spin Crossover in Halogen-Functionalized 2-D Hofmann Frameworks. Inorganic Chemistry, 2020, 59, 14296-14305.	1.9	19
21	High-pressure sapphire capillary cell for synchrotron single-crystal X-ray diffraction measurements to 1500 bar. Journal of Applied Crystallography, 2020, 53, 1519-1523.	1.9	7
22	Further Chemistry of Ruthenium Alkenyl Acetylide Complexes: Routes to Allenylidene Complexes via a Series of Electrophilic Addition Reactions. Organometallics, 2020, 39, 2838-2853.	1.1	6
23	Pressure-and temperature induced phase transitions, piezochromism, NLC behaviour and pressure controlled Jahnâ€“Teller switching in a Cu-based framework. Chemical Science, 2020, 11, 8793-8799.	3.7	17
24	Probing the structural and electronic response of Magnus green salt compounds [Pt(NH2R)4][PtCl4] (R = H, CH3) to pressure. Physical Chemistry Chemical Physics, 2020, 22, 17668-17676.	1.3	3
25	Putting the Squeeze on Molecule-Based Magnets: Exploiting Pressure to Develop Magneto-Structural Correlations in Paramagnetic Coordination Compounds. Magnetochemistry, 2020, 6, 32.	1.0	7
26	Structural investigation of bromide complexation with bipodal, tripodal and tetrapodal cationic molecules. CrystEngComm, 2020, 22, 5539-5549.	1.3	2
27	Crystallography Under High Pressures. Structure and Bonding, 2020, , 141-198.	1.0	6
28	Biosynthesis of a New Benzazepine Alkaloid Nanangelenin A from Aspergillus nanangensis Involves an Unusual <scp>l</scp>-Kynurenine-Incorporating NRPS Catalyzing Regioselective Lactamization. Journal of the American Chemical Society, 2020, 142, 7145-7152.	6.6	35
29	Pressure-induced non-innocence in bis(1,2-dionedioximato)Pt(<scp>ii</scp>) complexes: an experimental and theoretical study of their insulatorâ€“metal transitions. Physical Chemistry Chemical Physics, 2020, 22, 6677-6689.	1.3	8
30	Correlating Pressureâ€Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. Angewandte Chemie, 2020, 132, 8195-8199.	1.6	10
31	Controlling Spin Switching with Anionic Supramolecular Frameworks. Chemistry of Materials, 2020, 32, 3229-3234.	3.2	25
32	Correlating Pressureâ€Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. Angewandte Chemie - International Edition, 2020, 59, 8118-8122.	7.2	30
33	Mix and (Mis)match: further studies of the electronic structure and mixed-valence characteristics of 1,4-diethynylbenzene-bridged bimetallic complexes. Dalton Transactions, 2020, 49, 9835-9848.	1.6	8
34	Further Evidence for â€˜Extendedâ€™ Cumulene Complexes: Derivatives from Reactions with Halide Anions and Water. Chemistry - A European Journal, 2020, 26, 7226-7234.	1.7	5
35	A One-Pot Reaction of Î±-Imino Rhodium Carbenoids and Halohydrins: Access to 2,6-Substituted Dihydro-2H-1,4-oxazines. Organic Letters, 2020, 22, 3490-3494.	2.4	19
36	Crystal structures of [Î¼₂-(R_a,S_a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 77 Td (,3a dichloromethane monosolvate and [Î¼₂-(S_a,S_a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1543-1547.	BT	

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37	Racemic NHCâ€“Iridium Complexes with Electron-Poor Diene Ligands and Their Reactivity in the Intramolecular Hydroamination Reaction. Organometallics, 2019, 38, 3568-3581.	1.1	4
38	High-pressure polymorphism in l-threonine between ambient pressure and 22 GPa. CrystEngComm, 2019, 21, 4444-4456.	1.3	27
39	Highly stable fullerene-based porous molecular crystals with open metal sites. Nature Materials, 2019, 18, 740-745.	13.3	18
40	Understanding the adsorption process in ZIF-8 using high pressure crystallography and computational modelling. Nature Communications, 2018, 9, 1429.	5.8	146
41	Probing the origin of the giant magnetic anisotropy in trigonal bipyramidal Ni(<scp>ii</scp>) under high pressure. Chemical Science, 2018, 9, 1551-1559.	3.7	52
42	Tuning the Swing Effect by Chemical Functionalization of Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2018, 140, 382-387.	6.6	55
43	Hidden negative linear compressibility in lithium<scp>l</scp>-tartrate. Physical Chemistry Chemical Physics, 2017, 19, 3544-3549.	1.3	19
44	MOFs modeling and theory: general discussion. Faraday Discussions, 2017, 201, 233-245.	1.6	4
45	Anisotropic compressibility of the coordination polymer emim[Mn(btc)]. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 389-394.	0.5	8
46	Xâ€Ray Diffraction and MÃ¶ssbauer Spectroscopy Studies of Pressureâ€Induced Phase Transitions in a Mixedâ€Valence Trinuclear Iron Complex. Chemistry - A European Journal, 2016, 22, 9616-9623.	1.7	4
47	Pressure induced enhancement of the magnetic ordering temperature in rhenium(IV) monomers. Nature Communications, 2016, 7, 13870.	5.8	30
48	A hindered subphthalocyanine that forms crystals with included aromatic solvent but will not play ball with C₆₀. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1034-1040.	0.4	5
49	A Computational and Experimental Approach Linking Disorder, Highâ€Pressure Behavior, and Mechanical Properties in UiO Frameworks. Angewandte Chemie, 2016, 128, 2447-2451.	1.6	24
50	A Computational and Experimental Approach Linking Disorder, Highâ€Pressure Behavior, and Mechanical Properties in UiO Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2401-2405.	7.2	103
51	Postsynthetic bromination of UiO-66 analogues: altering linker flexibility and mechanical compliance. Dalton Transactions, 2016, 45, 4132-4135.	1.6	34
52	Amino acids as highly efficient modulators for single crystals of zirconium and hafnium metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 6955-6963.	5.2	137
53	Pore Shape Modification of a Microporous Metalâ€“Organic Framework Using High Pressure: Accessing a New Phase with Oversized Guest Molecules. Chemistry of Materials, 2016, 28, 466-473.	3.2	31
54	Perfluorocarbon liquid under pressure: a medium for gas delivery. CrystEngComm, 2016, 18, 1273-1276.	1.3	6

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55	Use of a miniature diamond-anvil cell in high-pressure single-crystal neutron Laue diffraction. IUCrJ, 2016, 3, 168-179.	1.0	25
56	Locating Gases in Porous Materials: Cryogenic Loading of Fuelâ€Related Gases Into a Scâ€based Metalâ€“Organic Framework under Extreme Pressures. Angewandte Chemie - International Edition, 2015, 54, 13332-13336.	7.2	24
57	How focussing on hydrogen bonding interactions in amino acids can miss the bigger picture: a high-pressure neutron powder diffraction study of Îµ-glycine. CrystEngComm, 2015, 17, 5315-5328.	1.3	35
58	Structural studies of metalâ€“organic frameworks under high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 587-607.	0.5	82
59	A high-pressure crystallographic and magnetic study of Na₅[Mn(<scp>l</scp>-tart)₂]Â·12H₂O (<scp>l</scp>-tart) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	13
60	Inâ€…situ Synchrotron IR Microspectroscopy of CO₂ Adsorption on Single Crystals of the Functionalized MOF Sc₂(BDCâ€NH₂)₃. Angewandte Chemie - International Edition, 2014, 53, 13483-13487.	7.2	42
61	A pressure-induced displacive phase transition in Tris(ethylenediamine) Nickel(II) nitrate. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.4	2
62	Stabilization of Scandium Terephthalate MOFs against Reversible Amorphization and Structural Phase Transition by Guest Uptake at Extreme Pressure. Journal of the American Chemical Society, 2014, 136, 8606-8613.	6.6	63
63	The effect of pressure on the post-synthetic modification of a nanoporous metalâ€“organic framework. Nanoscale, 2014, 6, 4163-4173.	2.8	49
64	High pressure studies of metal organic framework materials. International Journal of Nanotechnology, 2012, 9, 18.	0.1	5
65	The effect of pressure on Cu-btc: framework compression vs. guest inclusion. Chemical Communications, 2012, 48, 1535-1537.	2.2	73
66	Supramolecular mechanics in a metalâ€“organic framework. Chemical Science, 2012, 3, 3011.	3.7	144
67	The Effect of High Pressure on MOFâ€5: Guestâ€Induced Modification of Pore Size and Content at High Pressure. Angewandte Chemie - International Edition, 2011, 50, 11138-11141.	7.2	128
68	Synthesis and structure of 2-pyransoylperimidines. Carbohydrate Research, 2011, 346, 43-49.	1.1	10
69	Synthesis of novel amidoxime-linked pseudodisaccharides. Tetrahedron Letters, 2011, 52, 95-97.	0.7	4
70	Mechanical Properties of Dense Zeolitic Imidazolate Frameworks (ZIFs): A Highâ€Pressure Xâ€ray Diffraction, Nanoindentation and Computational Study of the Zinc Framework Zn(Im)₂, and its Lithiumï£¿Boron Analogue, LiB(Im)₄. Chemistry - A European Journal, 2010, 16, 10684-10690.	1.7	119
71	The effect of pressure on the porous peptide l-alanyl-l-valine. CrystEngComm, 2010, 12, 2322.	1.3	10
72	Pressure-induced switching in a copper(ii) citrate dimer. CrystEngComm, 2010, 12, 2516.	1.3	29

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73	Pressure induced phase transitions in the tripeptide glutathione to 5.24 GPa: the crystal structure of glutathione-II at 2.94 GPa and glutathione-III at 3.70 GPa. CrystEngComm, 2010, 12, 2587.	1.3	15
74	The effect of pressure on the crystal structure of [Gd(PhCOO)3(DMF)]n to 3.7 GPa and the transition to a second phase at 5.0 GPa. Dalton Transactions, 2010, 39, 7004.	1.6	8
75	Pressure-induced Jahnâ€“Teller switching in a Mn12 nanomagnet. Chemical Communications, 2010, 46, 1881-1883.	2.2	57
76	Molecular solids at extreme pressure. CrystEngComm, 2010, 12, 2515.	1.3	10
77	The effect of pressure on the crystal structure of l-alanine. CrystEngComm, 2010, 12, 2573.	1.3	65
78	The Effect of Pressure on ZIFâ€8: Increasing Pore Size with Pressure and the Formation of a Highâ€Pressure Phase at 1.47â€...GPa. Angewandte Chemie - International Edition, 2009, 48, 7087-7089.	7.2	444
79	Photoactive trans ammine/amine diazido platinum(IV) complexes. Inorganica Chimica Acta, 2009, 362, 811-819.	1.2	44
80	Temperature- and Pressure-Induced Proton Transfer in the 1:1 Adduct Formed between Squaric Acid and 4,4â€²-Bipyridine. Journal of the American Chemical Society, 2009, 131, 3884-3893.	6.6	82
81	High pressure induced spin changes and magneto-structural correlations in hexametallic SMMs. Dalton Transactions, 2009, , 4858.	1.6	47
82	Polymerisation of a Cu(II) dimer into 1D chains using high pressure. CrystEngComm, 2009, 11, 2601.	1.3	39
83	Incorporation of a new design of backing seat and anvil in a Merrillâ€“Bassett diamond anvil cell. Journal of Applied Crystallography, 2008, 41, 249-251.	1.9	113
84	Ground Spin State Changes and 3â€‰D Networks of Exchange Coupled [Mn^{III}₃] Singleâ€Molecule Magnets. Chemistry - A European Journal, 2008, 14, 9117-9121.	1.7	62
85	[Mn₆] under Pressure: A Combined Crystallographic and Magnetic Study. Angewandte Chemie - International Edition, 2008, 47, 2828-2831.	7.2	68
86	High-pressure polymorphism in amino acids. Crystallography Reviews, 2008, 14, 143-184.	0.4	113
87	A study of the high-pressure polymorphs of L-serine using ab initio structures and PIXEL calculations. CrystEngComm, 2008, 10, 1154.	1.3	48
88	High-pressure polymorphism in L-serine monohydrate: identification of driving forces in high pressure phase transitions and possible implications for pressure-induced protein denaturation. CrystEngComm, 2008, 10, 1758.	1.3	37
89	A potent cytotoxic photoactivated platinum complex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20743-20748.	3.3	290
90	Chloro Half-Sandwich Osmium(II) Complexes:Â Influence of Chelated N,N-Ligands on Hydrolysis, Guanine Binding, and Cytotoxicity. Inorganic Chemistry, 2007, 46, 4049-4059.	1.9	113

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91	Bifunctional Amine-Tethered Ruthenium(II) Arene Complexes Form Monofunctional Adducts on DNA. Inorganic Chemistry, 2007, 46, 8950-8962.	1.9	88
92	A Record Anisotropy Barrier for a Single-Molecule Magnet. Journal of the American Chemical Society, 2007, 129, 2754-2755.	6.6	693
93	Configurations of Nickel-Cyclam Antiviral Complexes and Protein Recognition. Chemistry - A European Journal, 2007, 13, 40-50.	1.7	53
94	Gold(III)-Dithiocarbamato Complexes Induce Cancer Cell Death Triggered by Thioredoxin Redox System Inhibition and Activation of ERK Pathway. Chemistry and Biology, 2007, 14, 1128-1139.	6.2	123
95	High-pressure polymorphism in L-cysteine: the crystal structures of L-cysteine-III and L-cysteine-IV. Acta Crystallographica Section B: Structural Science, 2006, 62, 296-309.	1.8	103
96	Effect of pressure on the crystal structure of Î±-glycylglycine to 4.7â€...GPa; application of Hirshfeld surfaces to analyse contacts on increasing pressure. Acta Crystallographica Section B: Structural Science, 2006, 62, 310-320.	1.8	29
97	High-pressure neutron diffraction study of L-serine-I and L-serine-II, and the structure of L-serine-III at 8.1â€...GPa. Acta Crystallographica Section B: Structural Science, 2006, 62, 815-825.	1.8	77
98	Glycyl-L-proline hemihydrate at 298â€...K. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o1046-o1048.	0.2	3
99	Ruthenium(II) arene complexes containing four- and five-membered monoanionic O,O-chelate rings. Inorganica Chimica Acta, 2006, 359, 3020-3028.	1.2	43
100	Effect of pressure on the crystal structure of L-serine-I and the crystal structure of L-serine-II at 5.4â€...GPa. Acta Crystallographica Section B: Structural Science, 2005, 61, 58-68.	1.8	97
101	The effect of pressure on the crystal structure of hexagonalL-cystine. Journal of Synchrotron Radiation, 2005, 12, 598-607.	1.0	47
102	L-Cysteine-I at 30 K. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2739-o2742.	0.2	51
103	Barriers to Racemization in C3-Symmetric Complexes Containing the Hydrotris(2-mercapto-1-ethylimidazolyl)borate (TmEt) Ligand. Inorganic Chemistry, 2005, 44, 8884-8898.	1.9	54
104	Synthesis of pyranosyl amidoximes by addition of amines to pyranosyl nitrile oxides. Tetrahedron Letters, 2004, 45, 8913-8916.	0.7	15
105	High-pressure recrystallisationâ€"a route to new polymorphs and solvates. CrystEngComm, 2004, 6, 504-511.	1.3	132
106	A Merry Dance Across the Ï€-Cloud: Tracking the Transformation of a 2,7-Substituted Dihydropyrene Through a Thermally Stimulated Single-Crystal-to-Single-Crystal Reaction. Crystal Growth and Design, 0, , .	1.4	2
107	Auâ€NHC complexes with thiocarboxylate ligands: Synthesis, structure, stability, thiol exchange and in vitro anticancer activity. Applied Organometallic Chemistry, 0, , .	1.7	6