

Stephen A Moggach

List of Publications by Year in descending order

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110
papers

5,235
citations

82616

39
h-index

86120

71
g-index

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all docs

113
docs citations

113
times ranked

5892
citing authors

#	ARTICLE	IF	CITATIONS
1	The syntheses, structures and spectroelectrochemical properties of 6-oxo-verdazyl derivatives bearing surface anchoring groups. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1896-1915.	5.5	7
2	Discovery of brevijanazines from <i>Aspergillus brevijananus</i> reveals the molecular basis for p-nitrobenzoic acid in fungi. <i>Chemical Communications</i> , 2022, 58, 6296-6299.	4.3	5
3	The alprazolam analogue 4-chloro deschloroalprazolam identified in seized capsules. <i>Drug Testing and Analysis</i> , 2022, 14, 1672-1680.	2.6	1
4	Iron vs. ruthenium: syntheses, structures and IR spectroelectrochemical characterisation of half-sandwich Group 8 acetylide complexes. <i>New Journal of Chemistry</i> , 2021, 45, 14932-14943.	2.7	7
5	Guest-mediated phase transitions in a flexible pillared-layered metal-organic framework under high-pressure. <i>Chemical Science</i> , 2021, 12, 13793-13801.	7.8	19
6	Synthesis of a diferrocenylvinylidene complex by migration of a ferrocenyl substituent. <i>Chemical Communications</i> , 2021, 57, 4251-4254.	4.3	7
7	Hydrated alkali-B ₁₁ H ₁₄ salts as potential solid-state electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15027-15037.	10.5	21
8	Chlorinated metabolites from <i>Streptomyces</i> sp. highlight the role of biosynthetic mosaics and superclusters in the evolution of chemical diversity. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6147-6159.	2.9	8
9	Tuning the optical bandgap and piezoresistance in iridium-based molecular semiconductors through ligand modification. <i>Materials Advances</i> , 2021, 2, 5135-5143.	5.2	2
10	Rip It off: Nitro to Nitroso Reduction by Iron Half-Sandwich Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 4986-4995.	4.2	5
11	(⁴ -Tetrafluorobenzobarrelene)- ¹ -((tri-4-fluorophenyl)phosphine)- ¹ -(2-phenylphenyl)rhodium(I) A Catalyst for the Living Polymerization of Phenylacetylenes. <i>Macromolecules</i> , 2021, 54, 6191-6203.	5.0	6
12	Photophysics of Azobenzene Constrained in a UiO Metal-Organic Framework: Effects of Pressure, Solvation and Dynamic Disorder. <i>Chemistry - A European Journal</i> , 2021, 27, 14871-14875.	3.6	6
13	Evaluating the crystalline orbital hierarchy and high-pressure structure-property response of an extended-ligand platinum(ⁱⁱ) bis(1,2-dioximato) complex. <i>CrystEngComm</i> , 2021, 23, 6359-6364.	2.6	0
14	Evaluating the high-pressure structural response and crystal lattice interactions of the magnetically-bistable organic radical TTTA. <i>CrystEngComm</i> , 2021, 23, 4444-4450.	2.6	6
15	A Merry Dance Across the ĩ-Cloud: Tracking the Transformation of a 2,7-Substituted Dihydropyrene Through a Thermally Stimulated Single-Crystal-to-Single-Crystal Reaction. <i>Crystal Growth and Design</i> , 2021, 21, 6558-6566.	3.2	2
16	Enhanced synthesis of oxo-verdazyl radicals bearing sterically and electronically diverse C3-substituents. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 10120-10138.	2.9	6
17	Characterization of a gold tailings with hypersaline pore fluid. <i>Canadian Geotechnical Journal</i> , 2020, 57, 482-496.	2.8	10
18	Rh(I)(2,5-norbornadiene)(biphenyl)(<i>tris</i> (4-fluorophenyl)phosphine): Synthesis, Characterization, and Application as an Initiator in the Stereoregular (Co)Polymerization of Phenylacetylenes. <i>ACS Macro Letters</i> , 2020, 9, 56-60.	5.0	18

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19	Single-Crystal X-Ray Diffraction Study of Pressure and Temperature-Induced Spin Trapping in a Bistable Iron(II) Hofmann Framework. <i>Angewandte Chemie</i> , 2020, 132, 3130-3135.	2.0	1
20	Single-Crystal X-Ray Diffraction Study of Pressure and Temperature-Induced Spin Trapping in a Bistable Iron(II) Hofmann Framework. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3106-3111.	14.5	12
21	Guest Removal and External Pressure Variation Induce Spin Crossover in Halogen-Functionalized 2-D Hofmann Frameworks. <i>Inorganic Chemistry</i> , 2020, 59, 14296-14305.	4.2	19
22	High-pressure sapphire capillary cell for synchrotron single-crystal X-ray diffraction measurements to 1500 bar. <i>Journal of Applied Crystallography</i> , 2020, 53, 1519-1523.	4.7	7
23	Further Chemistry of Ruthenium Alkenyl Acetylide Complexes: Routes to Allenylidene Complexes via a Series of Electrophilic Addition Reactions. <i>Organometallics</i> , 2020, 39, 2838-2853.	2.5	6
24	Pressure- and temperature induced phase transitions, piezochromism, NLC behaviour and pressure controlled Jahn-Teller switching in a Cu-based framework. <i>Chemical Science</i> , 2020, 11, 8793-8799.	7.8	17
25	Probing the structural and electronic response of Magnus green salt compounds $[\text{Pt}(\text{NH}_2)_4][\text{PtCl}_4]$ ($\text{R} = \text{H}, \text{CH}_3$) to pressure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17668-17676.	2.9	3
26	Putting the Squeeze on Molecule-Based Magnets: Exploiting Pressure to Develop Magneto-Structural Correlations in Paramagnetic Coordination Compounds. <i>Magnetochemistry</i> , 2020, 6, 32.	2.5	7
27	Structural investigation of bromide complexation with bipodal, tripodal and tetrapodal cationic molecules. <i>CrystEngComm</i> , 2020, 22, 5539-5549.	2.6	2
28	Crystallography Under High Pressures. <i>Structure and Bonding</i> , 2020, , 141-198.	1.1	6
29	Biosynthesis of a New Benzazepine Alkaloid Nanangelenin A from <i>Aspergillus nanangensis</i> Involves an Unusual Kynurenine-Incorporating NRPS Catalyzing Regioselective Lactamization. <i>Journal of the American Chemical Society</i> , 2020, 142, 7145-7152.	14.2	35
30	Pressure-induced non-innocence in bis(1,2-dionedioximate)Pt complexes: an experimental and theoretical study of their insulator-metal transitions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6677-6689.	2.9	8
31	Correlating Pressure-Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. <i>Angewandte Chemie</i> , 2020, 132, 8195-8199.	2.0	10
32	Controlling Spin Switching with Anionic Supramolecular Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 3229-3234.	6.9	25
33	Correlating Pressure-Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8118-8122.	14.5	30
34	Mix and (Mis)match: further studies of the electronic structure and mixed-valence characteristics of 1,4-diethynylbenzene-bridged bimetallic complexes. <i>Dalton Transactions</i> , 2020, 49, 9835-9848.	3.4	8
35	Further Evidence for Extended Cumulene Complexes: Derivatives from Reactions with Halide Anions and Water. <i>Chemistry - A European Journal</i> , 2020, 26, 7226-7234.	3.6	5
36	A One-Pot Reaction of λ^5 -Imino Rhodium Carbenoids and Halohydrins: Access to 2,6-Substituted Dihydro-2H-1,4-oxazines. <i>Organic Letters</i> , 2020, 22, 3490-3494.	4.9	19

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37	Crystal structures of $[Zr_4(\text{R}_2\text{O})_2(\text{S}_2\text{O}_7)_2] \cdot 10\text{H}_2\text{O}$ dichloromethane monosolvate and $[Zr_4(\text{S}_2\text{O}_7)_2] \cdot 10\text{H}_2\text{O}$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 1543-1547.	10.784314	757
38	Racemic NHC-iridium complexes with electron-poor diene ligands and their reactivity in the intramolecular hydroamination reaction. <i>Organometallics</i> , 2019, 38, 3568-3581.	2.5	4
39	High-pressure polymorphism in L-threonine between ambient pressure and 22 GPa. <i>CrystEngComm</i> , 2019, 21, 4444-4456.	2.6	27
40	Highly stable fullerene-based porous molecular crystals with open metal sites. <i>Nature Materials</i> , 2019, 18, 740-745.	26.6	18
41	Understanding the adsorption process in ZIF-8 using high pressure crystallography and computational modelling. <i>Nature Communications</i> , 2018, 9, 1429.	13.2	146
42	Probing the origin of the giant magnetic anisotropy in trigonal bipyramidal Ni(II) under high pressure. <i>Chemical Science</i> , 2018, 9, 1551-1559.	7.8	52
43	Tuning the swing effect by chemical functionalization of zeolitic imidazolate frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 382-387.	14.2	55
44	Hidden negative linear compressibility in lithium tartrate. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3544-3549.	2.9	19
45	MOFs modeling and theory: general discussion. <i>Faraday Discussions</i> , 2017, 201, 233-245.	3.2	4
46	Anisotropic compressibility of the coordination polymer emim[Mn(btc)]. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 389-394.	1.1	8
47	X-ray diffraction and Mössbauer spectroscopy studies of pressure-induced phase transitions in a mixed-valence trinuclear iron complex. <i>Chemistry - A European Journal</i> , 2016, 22, 9616-9623.	3.6	4
48	Pressure induced enhancement of the magnetic ordering temperature in rhenium(IV) monomers. <i>Nature Communications</i> , 2016, 7, 13870.	13.2	30
49	A hindered subphthalocyanine that forms crystals with included aromatic solvent but will not play ball with C_{60} . <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 1034-1040.	0.9	5
50	A computational and experimental approach linking disorder, high-pressure behavior, and mechanical properties in UiO frameworks. <i>Angewandte Chemie</i> , 2016, 128, 2447-2451.	2.0	24
51	A computational and experimental approach linking disorder, high-pressure behavior, and mechanical properties in UiO frameworks. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2401-2405.	14.5	103
52	Postsynthetic bromination of UiO-66 analogues: altering linker flexibility and mechanical compliance. <i>Dalton Transactions</i> , 2016, 45, 4132-4135.	3.4	34
53	Amino acids as highly efficient modulators for single crystals of zirconium and hafnium metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6955-6963.	10.5	137
54	Pore shape modification of a microporous metal-organic framework using high pressure: accessing a new phase with oversized guest molecules. <i>Chemistry of Materials</i> , 2016, 28, 466-473.	6.9	31

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55	Perfluorocarbon liquid under pressure: a medium for gas delivery. CrystEngComm, 2016, 18, 1273-1276.	2.6	6
56	Use of a miniature diamond-anvil cell in high-pressure single-crystal neutron Laue diffraction. IUCr, 2016, 3, 168-179.	2.3	25
57	Locating Gases in Porous Materials: Cryogenic Loading of Fuel-Related Gases Into a Scandium-based Metal-Organic Framework under Extreme Pressures (Angew. Chem. 45/2015). Angewandte Chemie, 2015, 127, 13670-13670.	2.0	0
58	Locating Gases in Porous Materials: Cryogenic Loading of Fuel-Related Gases Into a Scandium-based Metal-Organic Framework under Extreme Pressures. Angewandte Chemie, 2015, 127, 13530-13534.	2.0	9
59	Locating Gases in Porous Materials: Cryogenic Loading of Fuel-Related Gases Into a Scandium-based Metal-Organic Framework under Extreme Pressures. Angewandte Chemie - International Edition, 2015, 54, 13332-13336.	14.5	24
60	How focussing on hydrogen bonding interactions in amino acids can miss the bigger picture: a high-pressure neutron powder diffraction study of L-glycine. CrystEngComm, 2015, 17, 5315-5328.	2.6	35
61	Structural studies of metal-organic frameworks under high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 587-607.	1.1	82
62	A high-pressure crystallographic and magnetic study of Na ₅ [Mn ₂ (tartrate) ₂ ·12H ₂ O] (tartrate) Tj ETQq0 0 0 rg34/Overlook 10 Tf 50	1.1	82
63	In-situ Synchrotron IR Microspectroscopy of CO ₂ Adsorption on Single Crystals of the Functionalized MOF Sc ₂ (BDC-NH ₂) ₃ . Angewandte Chemie - International Edition, 2014, 53, 13483-13487.	14.5	42
64	A pressure-induced displacive phase transition in Tris(ethylenediamine) Nickel(II) nitrate. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.7	2
65	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.	14.2	63
66	The effect of pressure on the post-synthetic modification of a nanoporous metal-organic framework. Nanoscale, 2014, 6, 4163-4173.	5.8	49
67	High pressure studies of metal organic framework materials. International Journal of Nanotechnology, 2012, 9, 18.	0.2	5
68	The effect of pressure on Cu-btc: framework compression vs. guest inclusion. Chemical Communications, 2012, 48, 1535-1537.	4.3	73
69	Supramolecular mechanics in a metal-organic framework. Chemical Science, 2012, 3, 3011.	7.8	144
70	The Effect of High Pressure on MOF-5: Guest-Induced Modification of Pore Size and Content at High Pressure. Angewandte Chemie, 2011, 123, 11334-11337.	2.0	19
71	The Effect of High Pressure on MOF-5: Guest-Induced Modification of Pore Size and Content at High Pressure. Angewandte Chemie - International Edition, 2011, 50, 11138-11141.	14.5	128
72	Synthesis and structure of 2-pyransoylperimidines. Carbohydrate Research, 2011, 346, 43-49.	2.1	10

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73	Synthesis of novel amidoxime-linked pseudodisaccharides. <i>Tetrahedron Letters</i> , 2011, 52, 95-97.	1.5	4
74	Mechanical Properties of Dense Zeolitic Imidazolate Frameworks (ZIFs): A High-Pressure X-ray Diffraction, Nanoindentation and Computational Study of the Zinc Framework Zn ₂ (Im) ₄ , and its Lithium-Boron Analogue, LiB(Im) ₄ . <i>Chemistry - A European Journal</i> , 2010, 16, 10684-10690.	3.6	119
75	The effect of pressure on the porous peptide l-alanyl-l-valine. <i>CrystEngComm</i> , 2010, 12, 2322.	2.6	10
76	Pressure-induced switching in a copper(ii) citrate dimer. <i>CrystEngComm</i> , 2010, 12, 2516.	2.6	29
77	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. <i>CrystEngComm</i> , 2010, 12, 2587.	2.6	15
78	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. <i>Dalton Transactions</i> , 2010, 39, 7004.	3.4	8
79	Pressure-induced Jahn-Teller switching in a Mn ₁₂ nanomagnet. <i>Chemical Communications</i> , 2010, 46, 1881-1883.	4.3	57
80	Molecular solids at extreme pressure. <i>CrystEngComm</i> , 2010, 12, 2515.	2.6	10
81	The effect of pressure on the crystal structure of l-alanine. <i>CrystEngComm</i> , 2010, 12, 2573.	2.6	65
82	The Effect of Pressure on ZIF-8: Increasing Pore Size with Pressure and the Formation of a High-Pressure Phase at 1.47 GPa. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7087-7089.	14.5	444
83	Photoactive trans ammine/amine diazido platinum(IV) complexes. <i>Inorganica Chimica Acta</i> , 2009, 362, 811-819.	2.5	44
84	Temperature- and Pressure-Induced Proton Transfer in the 1:1 Adduct Formed between Squaric Acid and 4,4'-Bipyridine. <i>Journal of the American Chemical Society</i> , 2009, 131, 3884-3893.	14.2	82
85	High pressure induced spin changes and magneto-structural correlations in hexametallic SMMs. <i>Dalton Transactions</i> , 2009, , 4858.	3.4	47
86	Polymerisation of a Cu(II) dimer into 1D chains using high pressure. <i>CrystEngComm</i> , 2009, 11, 2601.	2.6	39
87	Incorporation of a new design of backing seat and anvil in a Merrill-Bassett diamond anvil cell. <i>Journal of Applied Crystallography</i> , 2008, 41, 249-251.	4.7	113
88	Ground Spin State Changes and ⁵⁷ Fe Networks of Exchange Coupled [Mn ^{III}] ₃ Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2008, 14, 9117-9121.	3.6	62
89	[Mn ₆] under Pressure: A Combined Crystallographic and Magnetic Study. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2828-2831.	14.5	68
90	High-pressure polymorphism in amino acids. <i>Crystallography Reviews</i> , 2008, 14, 143-184.	1.6	113

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91	A study of the high-pressure polymorphs of L-serine using ab initio structures and PIXEL calculations. <i>CrystEngComm</i> , 2008, 10, 1154.	2.6	48
92	High-pressure polymorphism in L-serine monohydrate: identification of driving forces in high pressure phase transitions and possible implications for pressure-induced protein denaturation. <i>CrystEngComm</i> , 2008, 10, 1758.	2.6	37
93	A potent cytotoxic photoactivated platinum complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20743-20748.	7.3	290
94	Chloro Half-Sandwich Osmium(II) Complexes: Influence of Chelated N,N-Ligands on Hydrolysis, Guanine Binding, and Cytotoxicity. <i>Inorganic Chemistry</i> , 2007, 46, 4049-4059.	4.2	113
95	Bifunctional Amine-Tethered Ruthenium(II) Arene Complexes Form Monofunctional Adducts on DNA. <i>Inorganic Chemistry</i> , 2007, 46, 8950-8962.	4.2	88
96	A Record Anisotropy Barrier for a Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2007, 129, 2754-2755.	14.2	693
97	Configurations of Nickel-Cyclam Antiviral Complexes and Protein Recognition. <i>Chemistry - A European Journal</i> , 2007, 13, 40-50.	3.6	53
98	Gold(III)-Dithiocarbamate Complexes Induce Cancer Cell Death Triggered by Thioredoxin Redox System Inhibition and Activation of ERK Pathway. <i>Chemistry and Biology</i> , 2007, 14, 1128-1139.	6.2	123
99	High-pressure polymorphism in L-cysteine: the crystal structures of L-cysteine-III and L-cysteine-IV. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 296-309.	2.2	103
100	Effect of pressure on the crystal structure of β -glycylglycine to 4.7 GPa; application of Hirshfeld surfaces to analyse contacts on increasing pressure. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 310-320.	2.2	29
101	High-pressure neutron diffraction study of L-serine-I and L-serine-II, and the structure of L-serine-III at 8.1 GPa. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 815-825.	2.2	77
102	Glycyl-L-proline hemihydrate at 298 K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o1046-o1048.	0.2	3
103	Ruthenium(II) arene complexes containing four- and five-membered monoanionic O,O-chelate rings. <i>Inorganica Chimica Acta</i> , 2006, 359, 3020-3028.	2.5	43
104	Effect of pressure on the crystal structure of L-serine-I and the crystal structure of L-serine-II at 5.4 GPa. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 58-68.	2.2	97
105	The effect of pressure on the crystal structure of hexagonal L-cystine. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 598-607.	2.4	47
106	L-Cysteine-I at 30 K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2739-o2742.	0.2	51
107	Barriers to Racemization in C ₃ -Symmetric Complexes Containing the Hydrotris(2-mercapto-1-ethylimidazolyl)borate (TmEt) Ligand. <i>Inorganic Chemistry</i> , 2005, 44, 8884-8898.	4.2	54
108	Synthesis of pyranosyl amidoximes by addition of amines to pyranosyl nitrile oxides. <i>Tetrahedron Letters</i> , 2004, 45, 8913-8916.	1.5	15

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109	High-pressure recrystallisationâ€”a route to new polymorphs and solvates. CrystEngComm, 2004, 6, 504-511.	2.6	132
110	Auâ€”NHC complexes with thiocarboxylate ligands: Synthesis, structure, stability, thiol exchange and in vitro anticancer activity. Applied Organometallic Chemistry, 0, , .	3.5	6