

Ross S Forgan

List of Publications by Year in descending order

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83
papers

6,836
citations

108046

37
h-index

68831

81
g-index

85
all docs

85
docs citations

85
times ranked

8940
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-Synthetic Modification of a Metal-Organic Framework Glass. <i>Chemistry of Materials</i> , 2022, 34, 2187-2196.	3.2	27
2	Modulated self-assembly of an interpenetrated MIL-53 Sc metal-organic framework with excellent volumetric H ₂ storage and working capacity. <i>Materials Today Chemistry</i> , 2022, 24, 100887.	1.7	4
3	MOF nanoparticles as heterogeneous catalysts for direct amide bond formations. <i>Dalton Transactions</i> , 2022, 51, 8368-8376.	1.6	10
4	Controlling the Flexibility of MIL-88A(Sc) Through Synthetic Optimisation and Postsynthetic Halogenation. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	8
5	Glycopolymer-Functionalized MOF-808 Nanoparticles as a Cancer-Targeted Dual Drug Delivery System for Carboplatin and Floxuridine. <i>ACS Applied Nano Materials</i> , 2022, 5, 13862-13873.	2.4	28
6	Immobilising giant unilamellar vesicles with zirconium metal-organic framework anchors. <i>Soft Matter</i> , 2021, 17, 2024-2027.	1.2	0
7	Applications of nanoscale metal-organic frameworks as imaging agents in biology and medicine. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3423-3449.	2.9	61
8	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.	1.7	6
9	Exploring and expanding the Fe-terephthalate metal-organic framework phase space by coordination and oxidation modulation. <i>Materials Horizons</i> , 2021, 8, 3377-3386.	6.4	25
10	Identifying Differing Intracellular Cargo Release Mechanisms by Monitoring In Vitro Drug Delivery from MOFs in Real Time. <i>Cell Reports Physical Science</i> , 2020, 1, 100254.	2.8	19
11	Controlled Transdermal Release of Antioxidant Ferulate by a Porous Sc(III) MOF. <i>IScience</i> , 2020, 23, 101156.	1.9	16
12	Design of a Functionalized Metal-Organic Framework System for Enhanced Targeted Delivery to Mitochondria. <i>Journal of the American Chemical Society</i> , 2020, 142, 6661-6674.	6.6	103
13	Correlating Pressure-Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8118-8122.	7.2	30
14	Multivariate Modulation of the Zr MOF UiO-66 for Defect-Controlled Combination Anticancer Drug Delivery. <i>Angewandte Chemie</i> , 2020, 132, 5249-5255.	1.6	52
15	Multivariate Modulation of the Zr MOF UiO-66 for Defect-Controlled Combination Anticancer Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5211-5217.	7.2	205
16	Modulated self-assembly of metal-organic frameworks. <i>Chemical Science</i> , 2020, 11, 4546-4562.	3.7	155
17	Assessing Crystallisation Kinetics of Zr Metal-Organic Frameworks through Turbidity Measurements to Inform Rapid Microwave-Assisted Synthesis. <i>Chemistry - A European Journal</i> , 2020, 26, 6910-6918.	1.7	21
18	Implementing fluorescent MOFs as down-converting layers in hybrid light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2394-2400.	2.7	23

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19	The surface chemistry of metal-organic frameworks and their applications. Dalton Transactions, 2019, 48, 9037-9042.	1.6	58
20	Kinetic Control of Interpenetration in Fe-Biphenyl-4,4'-dicarboxylate Metal-Organic Frameworks by Coordination and Oxidation Modulation. Journal of the American Chemical Society, 2019, 141, 8346-8357.	6.6	58
21	Uncovering the Structural Diversity of Y(III) Naphthalene-2,6-Dicarboxylate MOFs Through Coordination Modulation. Frontiers in Chemistry, 2019, 7, 36.	1.8	15
22	Application of zirconium MOFs in drug delivery and biomedicine. Coordination Chemistry Reviews, 2019, 380, 230-259.	9.5	470
23	Towards the Stepwise Assembly of Molecular Borromean Rings. A Donor-Acceptor Ring-in-Ring Complex. Journal of the Mexican Chemical Society, 2019, 53, .	0.2	1
24	Enhancing anticancer cytotoxicity through bimodal drug delivery from ultrasmall Zr MOF nanoparticles. Chemical Communications, 2018, 54, 2792-2795.	2.2	90
25	Simultaneous neutron powder diffraction and microwave dielectric studies of ammonia absorption in metal-organic framework systems. Physical Chemistry Chemical Physics, 2018, 20, 10460-10469.	1.3	7
26	Mechanistic Investigation into the Selective Anticancer Cytotoxicity and Immune System Response of Surface-Functionalized, Dichloroacetate-Loaded, UiO-66 Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 5255-5268.	4.0	84
27	Crystallographic investigation into the self-assembly, guest binding, and flexibility of urea functionalised metal-organic frameworks. Supramolecular Chemistry, 2018, 30, 732-741.	1.5	13
28	Controlling interpenetration through linker conformation in the modulated synthesis of Sc metal-organic frameworks. Journal of Materials Chemistry A, 2018, 6, 1181-1187.	5.2	44
29	Targetable Mechanical Properties by Switching between Self-Sorting and Co-assembly with <i>In Situ</i> Formed Tripodal Ketoenamine Supramolecular Hydrogels. ChemNanoMat, 2018, 4, 853-859.	1.5	6
30	Surface-Functionalization of Zr-Fumarate MOF for Selective Cytotoxicity and Immune System Compatibility in Nanoscale Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 31146-31157.	4.0	121
31	Salicylaldehyde Hydrazones: Buttressing of Outer-Sphere Hydrogen-Bonding and Copper Extraction Properties. Australian Journal of Chemistry, 2017, 70, 556.	0.5	5
32	Selective Surface PEGylation of UiO-66 Nanoparticles for Enhanced Stability, Cell Uptake, and pH-Responsive Drug Delivery. Chem, 2017, 2, 561-578.	5.8	266
33	Functional Versatility of a Series of Zr Metal-Organic Frameworks Probed by Solid-State Photoluminescence Spectroscopy. Journal of the American Chemical Society, 2017, 139, 6253-6260.	6.6	78
34	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. Faraday Discussions, 2017, 201, 87-99.	1.6	9
35	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	1.6	14
36	Tuning the Endocytosis Mechanism of Zr-Based Metal-Organic Frameworks through Linker Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 35516-35525.	4.0	44

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37	Synthetic Considerations in the Self-Assembly of Coordination Polymers of Pyridine-Functionalized Hybrid Mn-Anderson Polyoxometalates. <i>Crystal Growth and Design</i> , 2017, 17, 4739-4748.	1.4	32
38	Image-Guided Therapy Using Maghemite-MOF Nanovectors. <i>CheM</i> , 2017, 3, 200-202.	5.8	3
39	Stereoselective Halogenation of Integral Unsaturated C=C Bonds in Chemically and Mechanically Robust Zr and Hf MOFs. <i>Chemistry - A European Journal</i> , 2016, 22, 4870-4877.	1.7	77
40	Postsynthetic Modification of Zirconium Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4310-4331.	1.0	188
41	Drug delivery and controlled release from biocompatible metal-organic frameworks using mechanical amorphization. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7697-7707.	2.9	131
42	Postsynthetic bromination of UiO-66 analogues: altering linker flexibility and mechanical compliance. <i>Dalton Transactions</i> , 2016, 45, 4132-4135.	1.6	34
43	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.	5.2	137
44	Solvent Extraction of Copper: An Extractive Metallurgy Exercise for Undergraduate Teaching Laboratories. <i>Journal of Chemical Education</i> , 2016, 93, 362-367.	1.1	8
45	Single-Crystal to Single-Crystal Mechanical Contraction of Metal-Organic Frameworks through Stereoselective Postsynthetic Bromination. <i>Journal of the American Chemical Society</i> , 2015, 137, 9527-9530.	6.6	110
46	EPR/ENDOR and Computational Study of Outer Sphere Interactions in Copper Complexes of Phenolic Oximes. <i>Inorganic Chemistry</i> , 2015, 54, 8465-8473.	1.9	9
47	Structure-directing factors when introducing hydrogen bond functionality to metal-organic frameworks. <i>CrystEngComm</i> , 2015, 17, 299-306.	1.3	33
48	The surface chemistry of metal-organic frameworks. <i>Chemical Communications</i> , 2015, 51, 5199-5217.	2.2	336
49	Topological isomerism in a chiral handcuff catenane. <i>Chemical Science</i> , 2014, 5, 90-100.	3.7	24
50	The topological and chemical implications of introducing oriented rings to [3]catenanes. <i>Supramolecular Chemistry</i> , 2014, 26, 192-201.	1.5	5
51	3D Printed High-Throughput Hydrothermal Reactionware for Discovery, Optimization, and Scale-Up. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12723-12728.	7.2	126
52	Exploring the Programmable Assembly of a Polyoxometalate-Organic Hybrid via Metal Ion Coordination. <i>Journal of the American Chemical Society</i> , 2013, 135, 13425-13432.	6.6	78
53	Chameleonic Binding of the Dimethyldiazaperopyrenium Dication by Cucurbit[8]uril. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 225-229.	1.3	8
54	A dual host approach to NiSO ₄ extraction. <i>Supramolecular Chemistry</i> , 2012, 24, 117-126.	1.5	9

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55	Polyporous Metal-Coordination Frameworks. <i>Organic Letters</i> , 2012, 14, 1460-1463.	2.4	47
56	Self-Assembly of a [2]Pseudorota[3]catenane in Water. <i>Journal of the American Chemical Society</i> , 2012, 134, 17007-17010.	6.6	38
57	Nanoporous Carbohydrate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2012, 134, 406-417.	6.6	271
58	Stereochemistry of Molecular Figures-of-Eight. <i>Chemistry - A European Journal</i> , 2012, 18, 10312-10323.	1.7	24
59	Donor-Acceptor Ring-in-Ring Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 202-212.	1.7	40
60	Donor-acceptor molecular figures-of-eight. <i>Chemical Communications</i> , 2011, 47, 11870.	2.2	44
61	Using the Outer Coordination Sphere to Tune the Strength of Metal Extractants. <i>Inorganic Chemistry</i> , 2011, 50, 4515-4522.	1.9	37
62	Chemical Topology: Complex Molecular Knots, Links, and Entanglements. <i>Chemical Reviews</i> , 2011, 111, 5434-5464.	23.0	742
63	Mechanically Stabilized Tetrathiafulvalene Radical Dimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 4538-4547.	6.6	114
64	Monofunctionalized Pillar[5]arene as a Host for Alkanediamines. <i>Journal of the American Chemical Society</i> , 2011, 133, 5668-5671.	6.6	468
65	Strong and Reversible Binding of Carbon Dioxide in a Green Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2011, 133, 15312-15315.	6.6	346
66	Imprinting Chemical and Responsive Micropatterns into Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 276-279.	7.2	68
67	The Dynamic Chemistry of Molecular Borromean Rings and Solomon Knots. <i>Chemistry - A European Journal</i> , 2010, 16, 12570-12581.	1.7	91
68	Metal-Organic Frameworks from Edible Natural Products. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8630-8634.	7.2	568
69	Highly stable tetrathiafulvalene radical dimers in [3]catenanes. <i>Nature Chemistry</i> , 2010, 2, 870-879.	6.6	171
70	Directed self-assembly of a ring-in-ring complex. <i>Chemical Communications</i> , 2010, 46, 5861.	2.2	51
71	Collision induced dissociation (CID) to probe the outer sphere coordination chemistry of bis-salicylaldoximate complexes. <i>Dalton Transactions</i> , 2010, 39, 5614.	1.6	6
72	Cation and anion selectivity of zwitterionic salicylaldoxime metal salt extractants. <i>Dalton Transactions</i> , 2010, 39, 1763.	1.6	30

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73	A New Polynuclear Coordination Type for (Salicylaldoxime)copper(II) Complexes: Structure and Magnetic Properties of an (Oxime) Cu_6 Cluster. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4613-4617.	1.0	32
74	Anion-induced contraction of helical receptors. <i>Chemical Communications</i> , 2009, , 3606.	2.2	17
75	3-Fluorosalicylaldoxime at 6.5 GPa. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o2001-o2001.	0.2	2
76	The effect of pressure and substituents on the size of pseudo-macrocyclic cavities in salicylaldoxime ligands. <i>CrystEngComm</i> , 2008, 10, 239-251.	1.3	15
77	Transport of metal salts by zwitterionic ligands; simple but highly efficient salicylaldoxime extractants. <i>Chemical Communications</i> , 2008, , 4049.	2.2	24
78	Supramolecular chemistry in metal recovery; H-bond buttressing to tune extractant strength. <i>Chemical Communications</i> , 2007, , 4940.	2.2	17
79	3-Fluorosalicylaldoxime. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3132-o3132.	0.2	1
80	3-Hydroxysalicylaldoxime. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3131-o3131.	0.2	1
81	3-(5-tert-Butyl-2-hydroxybenzoyl)propanoic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3249-o3249.	0.2	0
82	Effect of pressure on the crystal structure of salicylaldoxime-I, and the structure of salicylaldoxime-II at 5.93â€¦GPa. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 1099-1111.	1.8	44
83	Salicylaldoxime-III at 150 K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o3944-o3946.	0.2	3