Ross S Forgan

List of Publications by Year
in descending order

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84 papers	6,836 citations	94433 37 h-index	60623 81 g-index
85 all docs	85 docs citations	85 times ranked	8009 citing authors

#	Article	IF	Citations
1	Chemical Topology: Complex Molecular Knots, Links, and Entanglements. Chemical Reviews, 2011, 111, 5434-5464.	47.7	742
2	Metalâ€“Organic Frameworks from Edible Natural Products. Angewandte Chemie - International Edition, 2010, 49, 8630-8634.	13.8	568
3	Application of zirconium MOFs in drug delivery and biomedicine. Coordination Chemistry Reviews, 2019, 380, 230-259.	18.8	470
4	Monofunctionalized Pillar[5]arene as a Host for Alkanediamines. Journal of the American Chemical Society, 2011, 133, 5668-5671.	13.7	468
5	Strong and Reversible Binding of Carbon Dioxide in a Green Metalâ€“Organic Framework. Journal of the American Chemical Society, 2011, 133, 15312-15315.	13.7	346
6	The surface chemistry of metalâ€“organic frameworks. Chemical Communications, 2015, 51, 5199-5217.	4.1	336
7	Nanoporous Carbohydrate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2012, 134, 406-417.	13.7	271
8	Selective Surface PEGylation of UiO-66 Nanoparticles for Enhanced Stability, Cell Uptake, and pH-Responsive Drug Delivery. CheM, 2017, 2, 561-578.	11.7	266
9	Multivariate Modulation of the Zr MOF UiOâ€66 for Defectâ€Controlled Combination Anticancer Drug Delivery. Angewandte Chemie - International Edition, 2020, 59, 5211-5217.	13.8	205
10	Postsynthetic Modification of Zirconium Metalâ€Organic Frameworks. European Journal of Inorganic Chemistry, 2016, 2016, 4310-4331.	2.0	188
11	Highly stable tetrathiafulvalene radical dimers in [3]catenanes. Nature Chemistry, 2010, 2, 870-879.	13.6	171
12	Modulated self-assembly of metalâ€“organic frameworks. Chemical Science, 2020, 11, 4546-4562.	7.4	155
13	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.	10.3	137
14	Drug delivery and controlled release from biocompatible metalâ€“organic frameworks using mechanical amorphization. Journal of Materials Chemistry B, 2016, 4, 7697-7707.	5.8	131
15	3D Printed Highâ€Throughput Hydrothermal Reactionware for Discovery, Optimization, and Scaleâ€Up. Angewandte Chemie - International Edition, 2014, 53, 12723-12728.	13.8	126
16	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.	8.0	121
17	Mechanically Stabilized Tetrathiafulvalene Radical Dimers. Journal of the American Chemical Society, 2011, 133, 4538-4547.	13.7	114
18	Single-Crystal to Single-Crystal Mechanical Contraction of Metalâ€“Organic Frameworks through Stereoselective Postsynthetic Bromination. Journal of the American Chemical Society, 2015, 137, 9527-9530.	13.7	110

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19	Design of a Functionalized Metalâ€“Organic Framework System for Enhanced Targeted Delivery to Mitochondria. Journal of the American Chemical Society, 2020, 142, 6661-6674.	13.7	103
20	The Dynamic Chemistry of Molecular Borromean Rings and Solomon Knots. Chemistry - A European Journal, 2010, 16, 12570-12581.	3.3	91
21	Enhancing anticancer cytotoxicity through bimodal drug delivery from ultrasmall Zr MOF nanoparticles. Chemical Communications, 2018, 54, 2792-2795.	4.1	90
22	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.	8.0	84
23	Exploring the Programmable Assembly of a Polyoxometalateâ€“Organic Hybrid via Metal Ion Coordination. Journal of the American Chemical Society, 2013, 135, 13425-13432.	13.7	78
24	Functional Versatility of a Series of Zr Metalâ€“Organic Frameworks Probed by Solid-State Photoluminescence Spectroscopy. Journal of the American Chemical Society, 2017, 139, 6253-6260.	13.7	78
25	Stereoselective Halogenation of Integral Unsaturated Câ€C Bonds in Chemically and Mechanically Robust Zr and Hf MOFs. Chemistry - A European Journal, 2016, 22, 4870-4877.	3.3	77
26	Imprinting Chemical and Responsive Micropatterns into Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2011, 50, 276-279.	13.8	68
27	Applications of nanoscale metalâ€“organic frameworks as imaging agents in biology and medicine. Journal of Materials Chemistry B, 2021, 9, 3423-3449.	5.8	61
28	The surface chemistry of metalâ€“organic frameworks and their applications. Dalton Transactions, 2019, 48, 9037-9042.	3.3	58
29	Kinetic Control of Interpenetration in Feâ€“Biphenyl-4,4â€²-dicarboxylate Metalâ€“Organic Frameworks by Coordination and Oxidation Modulation. Journal of the American Chemical Society, 2019, 141, 8346-8357.	13.7	58
30	Multivariate Modulation of the Zr MOF UiOâ€66 for Defectâ€Controlled Combination Anticancer Drug Delivery. Angewandte Chemie, 2020, 132, 5249-5255.	2.0	52
31	Directed self-assembly of a ring-in-ring complex. Chemical Communications, 2010, 46, 5861.	4.1	51
32	Polyporous Metal-Coordination Frameworks. Organic Letters, 2012, 14, 1460-1463.	4.6	47
33	Effect of pressure on the crystal structure of salicylaldoxime-I, and the structure of salicylaldoxime-II at 5.93â€…GPa. Acta Crystallographica Section B: Structural Science, 2006, 62, 1099-1111.	1.8	44
34	Donorâ€“acceptor molecular figures-of-eight. Chemical Communications, 2011, 47, 11870.	4.1	44
35	Tuning the Endocytosis Mechanism of Zr-Based Metalâ€“Organic Frameworks through Linker Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 35516-35525.	8.0	44
36	Controlling interpenetration through linker conformation in the modulated synthesis of Sc metalâ€“organic frameworks. Journal of Materials Chemistry A, 2018, 6, 1181-1187.	10.3	44

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37	Donorâ€“Acceptor Ringâ€inâ€Ring Complexes. Chemistry - A European Journal, 2012, 18, 202-212.	3.3	40
38	Self-Assembly of a [2]Pseudorota[3]catenane in Water. Journal of the American Chemical Society, 2012, 134, 17007-17010.	13.7	38
39	Using the Outer Coordination Sphere to Tune the Strength of Metal Extractants. Inorganic Chemistry, 2011, 50, 4515-4522.	4.0	37
40	Postsynthetic bromination of UiO-66 analogues: altering linker flexibility and mechanical compliance. Dalton Transactions, 2016, 45, 4132-4135.	3.3	34
41	Structure-directing factors when introducing hydrogen bond functionality to metalâ€“organic frameworks. CrystEngComm, 2015, 17, 299-306.	2.6	33
42	A New Polynuclear Coordination Type for (Salicylaldoxime)copper(II) Complexes: Structure and Magnetic Properties of an (Oxime)Cu₆ Cluster. European Journal of Inorganic Chemistry, 2009, 2009, 4613-4617.	2.0	32
43	Synthetic Considerations in the Self-Assembly of Coordination Polymers of Pyridine-Functionalized Hybrid Mn-Anderson Polyoxometalates. Crystal Growth and Design, 2017, 17, 4739-4748.	3.0	32
44	Cation and anion selectivity of zwitterionic salicylaldoxime metal salt extractants. Dalton Transactions, 2010, 39, 1763.	3.3	30
45	Correlating Pressureâ€Induced Emission Modulation with Linker Rotation in a Photoluminescent MOF. Angewandte Chemie - International Edition, 2020, 59, 8118-8122.	13.8	30
46	Glycopolymer-Functionalized MOF-808 Nanoparticles as a Cancer-Targeted Dual Drug Delivery System for Carboplatin and Floxuridine. ACS Applied Nano Materials, 2022, 5, 13862-13873.	5.0	28
47	Post-Synthetic Modification of a Metalâ€“Organic Framework Glass. Chemistry of Materials, 2022, 34, 2187-2196.	6.7	27
48	Exploring and expanding the Fe-terephthalate metalâ€“organic framework phase space by coordination and oxidation modulation. Materials Horizons, 2021, 8, 3377-3386.	12.2	25
49	Transport of metal salts by zwitterionic ligands; simple but highly efficient salicylaldoxime extractants. Chemical Communications, 2008, , 4049.	4.1	24
50	Stereochemistry of Molecular Figuresâ€ofâ€Eight. Chemistry - A European Journal, 2012, 18, 10312-10323.	3.3	24
51	Topological isomerism in a chiral handcuff catenane. Chemical Science, 2014, 5, 90-100.	7.4	24
52	Implementing fluorescent MOFs as down-converting layers in hybrid light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2394-2400.	5.5	23
53	Assessing Crystallisation Kinetics of Zr Metalâ€“Organic Frameworks through Turbidity Measurements to Inform Rapid Microwaveâ€Assisted Synthesis. Chemistry - A European Journal, 2020, 26, 6910-6918.	3.3	21
54	Identifying Differing Intracellular Cargo Release Mechanisms by Monitoring InÂVitro Drug Delivery from MOFs in Real Time. Cell Reports Physical Science, 2020, 1, 100254.	5.6	19

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55	Supramolecular chemistry in metal recovery; H-bond buttressing to tune extractant strength. Chemical Communications, 2007, , 4940.	4.1	17
56	Anion-induced contraction of helical receptors. Chemical Communications, 2009, , 3606.	4.1	17
57	Controlled Transdermal Release of Antioxidant Ferulate by a Porous Sc(III) MOF. IScience, 2020, 23, 101156.	4.1	16
58	The effect of pressure and substituents on the size of pseudo-macrocyclic cavities in salicylaldoxime ligands. CrystEngComm, 2008, 10, 239-251.	2.6	15
59	Uncovering the Structural Diversity of Y(III) Naphthalene-2,6-Dicarboxylate MOFs Through Coordination Modulation. Frontiers in Chemistry, 2019, 7, 36.	3.6	15
60	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	3.2	14
61	Crystallographic investigation into the self-assembly, guest binding, and flexibility of urea functionalised metal-organic frameworks. Supramolecular Chemistry, 2018, 30, 732-741.	1.2	13
62	MOF nanoparticles as heterogeneous catalysts for direct amide bond formations. Dalton Transactions, 2022, 51, 8368-8376.	3.3	10
63	A dual host approach to NiSO₄ extraction. Supramolecular Chemistry, 2012, 24, 117-126.	1.2	9
64	EPR/ENDOR and Computational Study of Outer Sphere Interactions in Copper Complexes of Phenolic Oximes. Inorganic Chemistry, 2015, 54, 8465-8473.	4.0	9
65	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. Faraday Discussions, 2017, 201, 87-99.	3.2	9
66	Chameleonic Binding of the Dimethyldiazaperopyrenium Dication by Cucurbit[8]uril. Asian Journal of Organic Chemistry, 2013, 2, 225-229.	2.7	8
67	Solvent Extraction of Copper: An Extractive Metallurgy Exercise for Undergraduate Teaching Laboratories. Journal of Chemical Education, 2016, 93, 362-367.	2.3	8
68	Controlling the Flexibility of MILâ€88A(Sc) Through Synthetic Optimisation and Postsynthetic Halogenation. Chemistry - A European Journal, 2022, 28, .	3.3	8
69	Simultaneous neutron powder diffraction and microwave dielectric studies of ammonia absorption in metalâ€“organic framework systems. Physical Chemistry Chemical Physics, 2018, 20, 10460-10469.	2.8	7
70	Collision induced dissociation (CID) to probe the outer sphere coordination chemistry of bis-salicylaldoximate complexes. Dalton Transactions, 2010, 39, 5614.	3.3	6
71	Targetable Mechanical Properties by Switching between Selfâ€Sorting and Coâ€assembly with In Situ Formed Tripodal Ketoenamine Supramolecular Hydrogels. ChemNanoMat, 2018, 4, 853-859.	2.8	6
72	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.	3.3	6

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73	The topological and chemical implications of introducing oriented rings to [3]catenanes. Supramolecular Chemistry, 2014, 26, 192-201.	1.2	5
74	Salicylaldehyde Hydrazones: Buttressing of Outer-Sphere Hydrogen-Bonding and Copper Extraction Properties. Australian Journal of Chemistry, 2017, 70, 556.	0.9	5
75	Modulated self-assembly of an interpenetrated MIL-53 Sc metalâ€“organic framework with excellent volumetric H2 storage and working capacity. Materials Today Chemistry, 2022, 24, 100887.	3.5	4
76	Salicylaldoxime-III at 150 K. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o3944-o3946.	0.2	3
77	Image-Guided Therapy Using Maghemite-MOF Nanovectors. CheM, 2017, 3, 200-202.	11.7	3
78	3-Fluorosalicylaldoxime at 6.5 GPa. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2001-o2001.	0.2	2
79	3-Fluorosalicylaldoxime. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3132-o3132.	0.2	1
80	3-Hydroxysalicylaldoxime. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3131-o3131.	0.2	1
81	Towards the Stepwise Assembly of Molecular Borromean Rings. A Donor-Acceptor Ring-in-Ring Complex. Journal of the Mexican Chemical Society, 2019, 53, .	0.6	1
82	3-(5-tert-Butyl-2-hydroxybenzoyl)propanoic acid. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3249-o3249.	0.2	0
83	Immobilising giant unilamellar vesicles with zirconium metalâ€“organic framework anchors. Soft Matter, 2021, 17, 2024-2027.	2.7	0
84	COPPER EXTRACTANT STRENGTH: THE EFFECT OF SUBSTITUENTS IN THE 3-POSITION ON HYDROXYOXIME PERFORMANCE. Canadian Metallurgical Quarterly, 2008, 47, 293-300.	1.2	0