Claire A Murray

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77 papers 1,627 22 38 g-index

82 1,991 7.2 4.55 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
77	Selective Adsorption of Sulfur Dioxide in a Robust Metal-Organic Framework Material. <i>Advanced Materials</i> , 2016 , 28, 8705-8711	24	161
76	Proton Conduction in a Phosphonate-Based Metal-Organic Framework Mediated by Intrinsic "Free Diffusion inside a Sphere". <i>Journal of the American Chemical Society</i> , 2016 , 138, 6352-5	16.4	156
75	Defect-dependent colossal negative thermal expansion in UiO-66(Hf) metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11586-92	3.6	99
74	Negative thermal expansion in hybrid improper ferroelectric Ruddlesden-Popper perovskites by symmetry trapping. <i>Physical Review Letters</i> , 2015 , 114, 035701	7.4	95
73	Selective Hysteretic Sorption of Light Hydrocarbons in a Flexible Metal © rganic Framework Material. <i>Chemistry of Materials</i> , 2016 , 28, 2331-2340	9.6	84
72	Synthesis and structure of Zr(iv)- and Ce(iv)-based CAU-24 with 1,2,4,5-tetrakis(4-carboxyphenyl)benzene. <i>Dalton Transactions</i> , 2016 , 45, 18822-18826	4.3	64
71	pH-Tunable hydrogelators for water purification: structural optimisation and evaluation. <i>Chemistry - A European Journal</i> , 2012 , 18, 2692-9	4.8	64
70	Ammonia Storage by Reversible Host-Guest Site Exchange in a Robust Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14778-14781	16.4	55
69	Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9119-27	16.4	48
68	Metal-insulator transition and orbital order in PbRuO3. <i>Physical Review Letters</i> , 2009 , 102, 046409	7.4	43
67	Symmetry Switching of Negative Thermal Expansion by Chemical Control. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5479-82	16.4	38
66	Hydrogen Oxidation on PdIr/C Catalysts in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F458-F463	3.9	36
65	Post-synthetic modulation of the charge distribution in a metal-organic framework for optimal binding of carbon dioxide and sulfur dioxide. <i>Chemical Science</i> , 2019 , 10, 1472-1482	9.4	35
64	Cation Control of Molecular Sieving by Flexible Li-Containing Zeolite Rho. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19652-19662	3.8	34
63	Strain driven structural phase transformations in dysprosium doped BiFeO3 ceramics. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3345-3360	7.1	33
62	Impact of partial interpenetration in a hybrid ultramicroporous material on CH/CH separation performance. <i>Chemical Communications</i> , 2018 , 54, 3488-3491	5.8	29
61	New synchrotron powder diffraction facility for long-duration experiments. <i>Journal of Applied Crystallography</i> , 2017 , 50, 172-183	3.8	28

(2016-2015)

60	In Situ Synchrotron X-ray Diffraction Study of the Sol G el Synthesis of Fe3N and Fe3C. <i>Chemistry of Materials</i> , 2015 , 27, 5094-5099	9.6	28
59	Decarboxylation of Lactones over Zn/ZSM-5: Elucidation of the Structure of the Active Site and Molecular Interactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10711-10716	16.4	25
58	Elucidation of Adsorbate Structures and Interactions on Brfisted Acid Sites in H-ZSM-5 by Synchrotron X-ray Powder Diffraction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5981-4	16.4	24
57	Recyclable switching between nonporous and porous phases of a square lattice (sql) topology coordination network. <i>Chemical Communications</i> , 2018 , 54, 7042-7045	5.8	24
56	Probing atomic positions of adsorbed ammonia molecules in zeolite. <i>Chemical Communications</i> , 2016 , 52, 3422-5	5.8	23
55	Glancing angle XRD analysis of particle stability under self-ion irradiation in oxide dispersion strengthened alloys. <i>Scripta Materialia</i> , 2016 , 110, 24-27	5.6	22
54	Conformational modulation of sequence recognition in synthetic macromolecules. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19442-7	16.4	22
53	Refinement of pore size at sub-angstrom precision in robust metal-organic frameworks for separation of xylenes. <i>Nature Communications</i> , 2020 , 11, 4280	17.4	22
52	Room Temperature Magnetically Ordered Polar Corundum GaFeO Displaying Magnetoelectric Coupling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1520-1531	16.4	21
51	In Situ Electron Paramagnetic Resonance and X-ray Diffraction Monitoring of Temperature-Induced Breathing and Related Structural Transformations in Activated V-Doped MIL-53(Al). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17400-17407	3.8	18
50	Thermally-induced phase transformations in Na0.5Bi0.5TiO3KNbO3 ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3293-3304	3.8	17
49	Ammonia decomposition catalysis using lithium-calcium imide. <i>Faraday Discussions</i> , 2016 , 188, 525-44	3.6	17
48	Unravelling the spatial dependency of the complex solid-state chemistry of Pb in a paint micro-sample from RembrandtB Homer using XRD-CT. <i>Chemical Communications</i> , 2019 , 55, 1931-1934	5.8	14
47	Unexpected behaviour in derivatives of Barluengaß reagent, $Hal(Coll)X$ ($Coll = 2,4,6$ -trimethyl pyridine, collidine; $Hal = I$, Br ; $X = PF$, $ClO \& BF$). Chemical Communications, 2018 , 54, 9849-9852	5.8	14
46	Stepwise observation and quantification and mixed matrix membrane separation of CO within a hydroxy-decorated porous host. <i>Chemical Science</i> , 2017 , 8, 3239-3248	9.4	13
45	A compact and versatile dynamic flow cryostat for photon science. <i>Review of Scientific Instruments</i> , 2016 , 87, 115103	1.7	13
44	Structural characterization of the electric field-induced ferroelectric phase in Na0.5Bi0.5TiO3-KNbO3 ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 4015-4021	6	12
43	Elucidation of Adsorbate Structures and Interactions on Brfisted Acid Sites in H-ZSM-5 by Synchrotron X-ray Powder Diffraction. <i>Angewandte Chemie</i> , 2016 , 128, 6085-6088	3.6	12

42	HardBoft synthesis of a new series of vacancy-ordered perovskites, CaCrO3IJournal of Materials Chemistry C, 2014 , 2, 9364-9367	7.1	12
41	Early age hydration and application of blended magnesium potassium phosphate cements for reduced corrosion of reactive metals. <i>Cement and Concrete Research</i> , 2021 , 143, 106375	10.3	11
40	Properties of CO2clathrate hydrates formed in the presence of MgSO4solutions with implications for icy moons. <i>Astronomy and Astrophysics</i> , 2017 , 600, A88	5.1	10
39	Mutual Complexation between Lacked Molecular Tweezers. <i>Crystal Growth and Design</i> , 2018 , 18, 386-392	3.5	10
38	Pyrene-modified quartz crystal microbalance for the detection of polynitroaromatic compounds. <i>Analytical Chemistry</i> , 2011 , 83, 6208-14	7.8	10
37	Ammonia Storage by Reversible Host © uest Site Exchange in a Robust Metal © rganic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 14994-14997	3.6	9
36	Effects of quenching on phase transformations and ferroelectric properties of 0.35BCZT-0.65KBT ceramics. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4070-4084	6	8
35	Tolerance Factor Control of Uniaxial Negative Thermal Expansion in a Layered Perovskite. <i>Chemistry of Materials</i> , 2020 , 32, 605-610	9.6	8
34	Insights into the Mechanochemical Synthesis of MOF-74. Crystal Growth and Design, 2021, 21, 3047-305	553.5	8
33	Fast microwave treatments of single source alkoxides for nanostructured Li-ion battery electrodes. <i>Chemical Communications</i> , 2016 , 52, 9028-31	5.8	7
32	C2H4 and C2H6 adsorption-induced structural variation of pillared-layer CPL-2 MOF: A combined experimental and Monte Carlo simulation study. <i>Chemical Engineering Science</i> , 2020 , 218, 115566	4.4	7
31	Bulk phase behavior of lithium imide-metal nitride ammonia decomposition catalysts. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22689-22697	3.6	7
30	The Mixing Behavior of Alkanes Adsorbed on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25796-25805	3.8	6
29	Monitoring the methanol conversion process in H-ZSM-5 using synchrotron X-ray powder diffraction-mass spectrometry. <i>Journal of Catalysis</i> , 2018 , 365, 145-152	7.3	6
28	Pairwise assembly of organopalladium(II) units with cyanurato(3-) and trithiocyanurato(3-) ligands: formation of chiral Pd12, Pd10, and Pd9 cage-molecules. <i>Inorganic Chemistry</i> , 2013 , 52, 10424-30	5.1	6
27	Decarboxylation of Lactones over Zn/ZSM-5: Elucidation of the Structure of the Active Site and Molecular Interactions. <i>Angewandte Chemie</i> , 2017 , 129, 10851-10856	3.6	5
26	Elements of fractal geometry in the H NMR spectrum of a copolymer intercalation-complex: identification of the underlying Cantor set. <i>Chemical Science</i> , 2018 , 9, 4052-4061	9.4	4
25	Quadruple stacking of macrocyclic viologen radical-cations. <i>Supramolecular Chemistry</i> , 2018 , 30, 751-75	71.8	4

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24	Spontaneous structural distortion of the metallic Shastry-Sutherland system DyB4 by quadrupole-spin-lattice coupling. <i>Physical Review B</i> , 2016 , 94,	3.3	4
23	Binding and separation of CO2, SO2 and C2H2 in homo- and hetero-metallic metal b rganic framework materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7190-7197	13	4
22	Cation Control of Cooperative CO2 Adsorption in Li-Containing Mixed Cation Forms of the Flexible Zeolite Merlinoite. <i>Chemistry of Materials</i> , 2021 , 33, 1157-1173	9.6	4
21	Negative X-ray expansion in cadmium cyanide. <i>Materials Horizons</i> , 2021 , 8, 1446-1453	14.4	4
20	Analysis by synchrotron X-ray scattering of the kinetics of formation of an Fe-based metal-organic framework with high CO2 adsorption. <i>APL Materials</i> , 2019 , 7, 111104	5.7	3
19	Novel PdIr/C Catalysts for the Hydrogen Oxidation Reaction in Alkaline Media. <i>ECS Transactions</i> , 2013 , 58, 637-650	1	3
18	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16457-16465	16.4	3
17	Cation Ordering and Exsolution in Copper-Containing Forms of the Flexible Zeolite Rho (Cu,M-Rho; M=H, Na) and Their Consequences for CO Adsorption. <i>Chemistry - A European Journal</i> , 2021 , 27, 13029-1	3 039	3
16	Structural and Electronic Effects of X-ray Irradiation on Prototypical [M(COD)Cl] Catalysts. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7473-7488	2.8	3
15	In-situ Electrochemical X-ray Diffraction: A Rigorous Method to Navigate within Phase Diagrams Reveals Fe Se as Superconductor for All x. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15401-1	15406	2
14	Thermal properties of TiNiSn and VFeSb half-Heusler thermoelectrics from synchrotron x-ray powder diffraction. <i>JPhys Energy</i> , 2021 , 3, 035001	4.9	2
13	Compositional flexibility in Li-N-H materials: implications for ammonia catalysis and hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15091-15100	3.6	2
12	Amorphous MgHe silicates from microwave-dried solBels. <i>Astronomy and Astrophysics</i> , 2019 , 624, A136	5.1	1
11	Inorganic co-crystal formation and thermal disproportionation in a dicyanometallate Buperperovskite? <i>Chemical Communications</i> , 2019 , 55, 5439-5442	5.8	1
10	Magnetically induced metal-insulator transition in Pb2CaOsO6. <i>Physical Review B</i> , 2020 , 102,	3.3	1
9	On the Origin of Reversible and Irreversible Reactions in LiNixCo(1-x)/2Mn(1-x)/2O2. <i>Journal of the Electrochemical Society</i> ,	3.9	1
8	A slow-cooling-rate cell for long-duration studies of mineral precipitation in cold aqueous environments on Earth and other planetary bodies. <i>Journal of Applied Crystallography</i> , 2018 , 51, 1197-12	23:8	1
7	Disorder-Induced Structural Complexity in the Barlowite Family of S = 1/2 Kagom[Magnets. <i>Chemistry of Materials</i> , 2021 , 33, 9638-9651	9.6	1

6	Structural Chemistry, Flexibility, and CO2 Adsorption Performance of Alkali Metal Forms of Merlinoite with a Framework Si/Al Ratio of 4.2. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27403-27419	3.8	1
5	Elementary women. <i>Nature Chemistry</i> , 2019 , 11, 602-603	17.6	
4	Elektrochemische In-situ-R\(\text{B}\)tgenbeugung: Eine pr\(\text{B}\)ise Methode zur Navigation in Phasendiagrammen enth\(\text{B}\)t \(\text{Fe1+xSe}\) als Supraleiter f\(\text{B}\)alle x. \(Angewandte\) Chemie, \(\text{2019}\), 131, 15547-15.	532 ⁶	
3	In situ X-ray Diffraction Investigation of Hydrogen Storage Alloys During Charge and Discharge. <i>ChemistrySelect</i> , 2016 , 1, 710-714	1.8	
2	Crystallisation of amorphous Mg-Fe silicates produced from microwave-dried sol-gels. <i>Proceedings of the International Astronomical Union</i> , 2019 , 15, 408-409	0.1	
1	X-ray powder diffraction study of the stability of clathrate hydrates in the presence of salts with relevance to the Martian cryosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 245, 304-315	5.5	