## Paul Forster

## List of Publications by Citations

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#	Paper	IF	Citations
79	Zeolite-like metal-organic frameworks (ZMOFs) as hydrogen storage platform: lithium and magnesium ion-exchange and H(2)-(rho-ZMOF) interaction studies. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2864-70	16.4	424
78	The role of temperature in the synthesis of hybrid inorganic-organic materials: the example of cobalt succinates. <i>Chemical Communications</i> , <b>2004</b> , 368-9	5.8	369
77	Enhancing H2 uptake by "close-packing" alignment of open copper sites in metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7263-6	16.4	291
76	Nickel(II) Phosphate VSB-5: A Magnetic Nanoporous Hydrogenation Catalyst with 24-Ring Tunnels. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 2831-2834	16.4	285
75	Open-framework nickel succinate, [Ni(7)(C(4)H(4)O(4))(6)(OH)(2)(H(2)O)(2)].2 H(2)O: a new hybrid material with three-dimensional Ni-O-Ni Connectivity. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 457-9	16.4	280
74	A high-throughput investigation of the role of pH, temperature, concentration, and time on the synthesis of hybrid inorganic-organic materials. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 7608-11	16.4	264
73	Hydrogen adsorption in nanoporous nickel(II) phosphates. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1309-12	16.4	247
72	Hybrid Inorganic Drganic Solids: An Emerging Class of Nanoporous Catalysts. <i>Topics in Catalysis</i> , <b>2003</b> , 24, 79-86	2.3	188
71	Adsorption of molecular hydrogen on coordinatively unsaturated Ni(II) sites in a nanoporous hybrid material. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16846-50	16.4	183
70	Further investigation of the effect of framework catenation on hydrogen uptake in metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15896-902	16.4	141
69	Microwave synthesis of hybrid inorganic-organic porous materials: phase-selective and rapid crystallization. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 7899-905	4.8	133
68	Synchrotron X-ray powder diffraction and computational investigation of purely siliceous zeolite Y under pressure. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12015-22	16.4	94
67	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. Journal of Physical Chemistry C, <b>2013</b> , 117, 20116-20126	3.8	80
66	Synthesis and Structural Characterization of Magnesium Based Coordination Networks in Different Solvents. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 2572-2579	3.5	78
65	Biphasic Solvothermal Synthesis: A New Approach for Hybrid Inorganic Drganic Materials. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 17-20	9.6	74
64	Readily available phosphate from minerals in early aqueous environments on Mars. <i>Nature Geoscience</i> , <b>2013</b> , 6, 824-827	18.3	62
63	Synthesis and characterization of Co7(OH)12(C2H4S2O6)(H2O)2日 single crystal structural study of a ferrimagnetic layered cobalt hydroxide. <i>Journal of Physics and Chemistry of Solids</i> , <b>2004</b> , 65, 11-16	3.9	52

## (2011-2007)

62	Effect of mixing of metal cations on the topology of metal oxide networks. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5877-9	16.4	47	
61	Nickel(II) Phosphate VSB-5: A Magnetic Nanoporous Hydrogenation Catalyst with 24-Ring Tunnels. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 2913-2916	3.6	47	
60	Structural Diversity in Coordination Polymers Composed of Divalent Transition Metals, 2,2?-Bipyridine, and Perfluorinated Dicarboxylates. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4759-4765	3.5	41	
59	Template-Free Synthesis of the Nanoporous Nickel Phosphate VSB-5 under Microwave Irradiation. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1394-1396	9.6	41	
58	A three-dimensional porous metal-organic framework constructed from two-dimensional sheets via interdigitation exhibiting dynamic features. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 4616-8	5.1	40	
57	Structural Diversity and Energetics in Anhydrous Lithium Tartrates: Experimental and Computational Studies of Novel Chiral Polymorphs and Their Racemic and Meso Analogues. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 221-230	3.5	39	
56	The role of reaction conditions and ligand flexibility in metal-organic hybrid materials examples from metal diglycolates and iminodiacetates. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 73, 57-64	5.3	38	
55	Synthesis and characterization of two polymorphic crystalline phases and an amorphous powder of nickel(II) bisimidazolate. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6147-52	5.1	33	
54	Self-assembly of halogen substituted phenazines. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 867-873		32	
53	Two coordination polymers created via in situ ligand synthesis involving C-N and C-C bond formation. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 8717-21	5.1	30	
52	Hochdurchsatz-Untersuchung organisch-anorganischer Hybridmaterialien: Einfluss von pH-Wert, Temperatur, Konzentration und Zeit bei der Synthese. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 7780-7784	3.6	30	
51	Gaining Insights on the H2Borbent Interactions: Robust soc-MOF Platform as a Case Study. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7353-7361	9.6	30	
50	Crystal structure of octabromoditechnetate(III) and a multi-configurational quantum chemical study of the delta>delta* transition in quadruply bonded [M2X8]2- dimers (M = Tc, Re; X = Cl, Br). Dalton Transactions, <b>2009</b> , 5954-9	4.3	29	
49	A thermally stable nanoporous nickel 5-sulfoisophthalate; crystal structure and adsorption properties. <i>Chemical Communications</i> , <b>2004</b> , 2148-9	5.8	29	
48	Pair distribution function analysis of pressure treated zeolite Na-A. Chemical Communications, 2009, 33	83.5	28	
47	Metal-oxygen-metal arrays in lamellar hybrid materials: cobalt and manganese 4-cyclohexene-1,2-dicarboxylates. <i>Dalton Transactions</i> , <b>2004</b> , 3365-9	4.3	28	
46	Single-crystal characterization of Co7(OH)6(H2O)3(C4H4O4)4?7H2O; A new cobalt succinate identified through high-throughput synthesis. <i>Solid State Sciences</i> , <b>2005</b> , 7, 1549-1555	3.4	28	
45	Technetium dichloride: a new binary halide containing metal-metal multiple bonds. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8814-7	16.4	27	

44	Synthesis and structure of technetium trichloride. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15864-5	16.4	27
43	Preparation of the binary technetium bromides: TcBr3 and TcBr4. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 910-1	16.4	27
42	Open-Framework Nickel Succinate, [Ni7(C4H4O4)6(OH)2(H2O)2]?2 H2O: A New Hybrid Material with Three-Dimensional NiDNi Connectivity. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 475-477	3.6	23
41	Self-assembly of pyrazine-containing tetrachloroacenes. <i>Langmuir</i> , <b>2011</b> , 27, 14615-20	4	22
40	Utility of Bifunctional N-Heterocyclic Phosphine (NHP)-Thioureas for Metal-Free Carbon-Phosphorus Bond Construction toward Regio- and Stereoselective Formation of Vinylphosphonates. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 77-88	4.2	19
39	Structural, spectroscopic, and multiconfigurational quantum chemical investigations of the electron-rich metal-metal triple-bonded Tc(2)X(4)(PMe(3))(4) (X = Cl, Br) complexes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6646-54	5.1	19
38	Synthesis, structure, and first-principles calculations of [TcBr2(PMe3)4] and [Tc2Br4(PMe3)4] complexes. <i>Dalton Transactions</i> , <b>2009</b> , 10338-42	4.3	19
37	Trivalent actinide and lanthanide complexation of 5,6-dialkyl-2,6-bis(1,2,4-triazin-3-yl)pyridine (RBTP; R = H, Me, Et) derivatives: a combined experimental and first-principles study. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 761-76	5.1	17
36	Ellechnetium trichloride: formation, structure, and first-principles calculations. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4915-7	5.1	16
35	Temperature-Programmed Desorption for Isotope Separation in Nanoporous Materials. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 1995-2001	3.8	15
34	Technetium tetrachloride revisited: a precursor to lower-valent binary technetium chlorides. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8462-7	5.1	14
33	Ionothermal synthesis and magnetic studies of novel two-dimensional metal-formate frameworks. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 2159-67	5.1	14
32	Molecular and Electronic Structures of MO (M = Mn, Tc, Re). <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2448-2458	5.1	13
31	Assessing zeolite frameworks for noble gas separations through a joint experimental and computational approach. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 222, 104-112	5.3	13
30	Ditechnetium Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10445-10452	5.1	12
29	Multi-configurational quantum chemical studies of the $Tc2X8(n-)$ (X = Cl, Br; n = 2, 3) anions. Crystallographic structure of octabromoditechnetate(3-). <i>Dalton Transactions</i> , <b>2012</b> , 41, 2869-72	4.3	12
28	Two coordination polymers based on a new nickel fluoride cluster. <i>Solid State Sciences</i> , <b>2005</b> , 7, 594-602	2 3.4	11
27	Hydrogen Uptake on Coordinatively Unsaturated Metal Sites in VSB-5: Strong Binding Affinity Leading to High-Temperature D/H Selectivity. <i>Langmuir</i> , <b>2017</b> , 33, 14586-14591	4	10

## (2016-2014)

26	Synthesis and characterization of the Mars-relevant phosphate minerals Fe- and Mg-whitlockite and merrillite and a possible mechanism that maintains charge balance during whitlockite to merrillite transformation. <i>American Mineralogist</i> , <b>2014</b> , 99, 1221-1232	2.9	10
25	Interaction of hydrogen with extraframework cations in zeolite hosts probed by inelastic neutron scattering spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 49-59	1.3	9
24	Capturing the Details of N2 Adsorption in Zeolite X Using Stroboscopic Isotope Contrasted Neutron Total Scattering. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 296-302	9.6	8
23	Lanthanide Complexation of 2,6-Bis(5,6-dipyridyl-1,2,4-triazinyl)pyr dine Solvent- and Lanthanide-Ion-Controlled Ligand Coordination Mode and Denticity. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 921-927	2.3	7
22	Elechnetium dichloride: solid-state modulated structure, electronic structure, and physical properties. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15955-62	16.4	7
21	Hydrothermal synthesis and solid-state structure of Tc2(EO2CCH3)4Cl2. <i>Polyhedron</i> , <b>2013</b> , 58, 115-119	2.7	7
20	Probing the presence of multiple metal-metal bonds in technetium chlorides by X-ray absorption spectroscopy: implications for synthetic chemistry. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9563-70	5.1	7
19	A trigonal-prismatic hexanuclear technetium(II) bromide cluster: solid-state synthesis and crystallographic and electronic structure. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 5660-2	5.1	7
18	The Nature of the Technetium Species Formed During the Oxidation of Technetium Dioxide with Oxygen and Water. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 1137-1144	2.3	6
17	A hybrid cobalt disulfonate with a novel inorganic layer architecture exhibiting a field-induced magnetic transition. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2604		6
16	Open framework metal monocarboxylates: nickel cyclopropionates containing 16- and 18-membered rings. <i>Solid State Sciences</i> , <b>2003</b> , 5, 635-642	3.4	6
15	Predicting partial atomic charges in siliceous zeolites. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 277, 184-196	5.3	6
14	Unraveling the mystery of "tech red" - a volatile technetium oxide. <i>Chemical Communications</i> , <b>2018</b> , 54, 1261-1264	5.8	5
13	Molecular and electronic structure of Tc2(O2CCH3)2Cl4 studied by multiconfigurational quantum chemical methods. <i>Polyhedron</i> , <b>2014</b> , 70, 144-147	2.7	5
12	Equation of state for technetium from X-ray diffraction and first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 95, 6-11	3.9	4
11	Hydrothermal synthesis and solid-state structures of polynuclear technetium iodide compounds. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 424, 329-335	2.7	3
10	A Decade of Dinuclear Technetium Complexes with Multiple Metall Metal Bonds. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 4484-4495	2.3	3
9	Evaluating the Selectivity of Sorbents for Noble Gas Separations across a Range of Temperatures, Loadings, and Gas Compositions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2016</b> , 642, 1377-1	383	3

8	Synthetic and coordination chemistry of the heavier trivalent technetium binary halides: uncovering technetium triiodide. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 14309-16	5.1	2
7	An Atomistic Understanding of the Unusual Thermal Behavior of the Molecular Oxide TcO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5468-5475	5.1	1
6	Solvothermal synthesis and solid-state characterization of metal-metal bonded tetracarboxylatoditechnetium(II,III) polymers. <i>Polyhedron</i> , <b>2020</b> , 180, 114418	2.7	1
5	Molecular and Electronic Structure of Re2Br4(PMe3)4. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7111-6	5.1	1
4	X-ray Crystallographic and First-Principles Theoretical Studies of K2[TcOCl5] and UV/Vis Investigation of the [TcOCl5]2[and [TcOCl4][lons. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 1097-1104	2.3	1
3	Ellechnetium: An allotrope with a nonstandard volume-pressure relationship. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
2	Synthesis and chemical stability of technetium nitrides. <i>Chemical Communications</i> , <b>2021</b> , 57, 8079-8082	5.8	1
1	A 70-Year-Old Mystery in Technetium Chemistry Explained by the New Technetium Polyoxometalate[H O ] [Tc O ] ? 4H O. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13624-13631	4.8	O