Richard I Walton

List of Publications by Year
in descending order

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247 papers	11,301 citations	28274 55 h-index	39675 94 g-index
291 all docs	291 docs citations	291 times ranked	13413 citing authors

#	Article	IF	Citations
1	A zinc-based coordination polymer as adsorbent for removal of trichlorophenol from aqueous solution: Synthesis, sorption and DFT studies. Journal of Molecular Structure, 2022, 1247, 131274.	3.6	12
2	Oxidation of 5â€Hydroxymethyl Furfural to 2,5â€Furan Dicarboxylic Acid Under Mild Aqueous Conditions Catalysed by MILâ€100(Fe) Metalâ€Organic Framework. ChemCatChem, 2022, 14, .	3.7	9
3	A Highly Stable Yttrium Organic Framework as a Host for Optical Thermometry and D ₂ O Detection. Chemistry - A European Journal, 2022, 28, .	3.3	12
4	The Influence of Defects on the Luminescence of Trivalent Terbium in Nanocrystalline Yttrium Orthovanadate. Nano Letters, 2022, 22, 3569-3575.	9.1	5
5	Development of New Mixed-Metal Ruthenium and Iridium Oxides as Electrocatalysts for Oxygen Evolution: Part I. Johnson Matthey Technology Review, 2022, 66, 393-405.	1.0	5
6	Thermal Dehydrofluorination of GaPO-34 Revealed by NMR Crystallography. Journal of Physical Chemistry C, 2021, 125, 2537-2545.	3.1	5
7	Tuning morphology, surface, and nanocrystallinity of rare earth vanadates by one-pot colloidal conversion of hydroxycarbonates. Nanoscale, 2021, 13, 4931-4945.	5.6	5
8	Synthesis, structural and DFT investigation of Zn(nba) 2 (meim) 2 for adsorptive removal of eosin yellow dye from aqueous solution. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 783-793.	1.2	4
9	Solvothermal Synthesis Routes to Substituted Cerium Dioxide Materials. Inorganics, 2021, 9, 40.	2.7	10
10	Systematic Modification of UiOâ€66 Metalâ€Organic Frameworks for Glucose Conversion into 5â€Hydroxymethyl Furfural in Water. ChemCatChem, 2021, 13, 2517-2529.	3.7	26
11	Hydrothermal Synthesis of Iridium-Substituted NaTaO3 Perovskites. Nanomaterials, 2021, 11, 1537.	4.1	3
12	Investigating the influence of synthesis route on the crystallinity and rate capability of niobium pentoxide for energy storage. Electrochimica Acta, 2021, 392, 138964.	5.2	6
13	Exploiting the flexibility of the pyrochlore composition for acid-resilient iridium oxide electrocatalysts in proton exchange membranes. Journal of Materials Chemistry A, 2021, 9, 25114-25127.	10.3	8
14	Investigation of the preparation and reactivity of metalâ€“organic frameworks of cerium and pyridine-2,4,6-tricarboxylate. Dalton Transactions, 2021, 51, 145-155.	3.3	4
15	Synthesis and crystal structures of zinc(II) coordination polymers of trimethylenedipyridine (tmdp), 4-nitrobenzoic (Hnba) and 4-biphenylcarboxylic acid (Hbiphen) for adsorptive removal of methyl orange from aqueous solution. Polyhedron, 2020, 192, 114819.	2.2	9
16	Electric Fieldâ€Controlled Synthesis and Characterisation of Single Metalâ€“Organicâ€Framework (MOF) Nanoparticles. Angewandte Chemie, 2020, 132, 19864-19869.	2.0	3
17	Ce(OH)2Cl and lanthanide-substituted variants as precursors to redox-active CeO2 materials. Dalton Transactions, 2020, 49, 14871-14880.	3.3	1
18	Frontispiece: Perovskite Oxides Prepared by Hydrothermal and Solvothermal Synthesis: A Review of Crystallisation, Chemistry, and Compositions. Chemistry - A European Journal, 2020, 26, .	3.3	0

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19	Isolated zirconium centres captured from aqueous solution: the structure of zirconium mandelate revealed from NMR crystallography. Chemical Communications, 2020, 56, 10159-10162.	4.1	0
20	Application of NMR Crystallography to Highly Disordered Templated Materials: Extensive Local Structural Disorder in the Gallophosphate GaPO-34A. Inorganic Chemistry, 2020, 59, 11616-11626.	4.0	9
21	In situ XAFS of acid-resilient iridate pyrochlore oxygen evolution electrocatalysts under operating conditions. Physical Chemistry Chemical Physics, 2020, 22, 18770-18773.	2.8	11
22	Low-temperature wet chemistry synthetic approaches towards ferrites. Inorganic Chemistry Frontiers, 2020, 7, 3282-3314.	6.0	31
23	5â€aminoâ€2â€methylpyridinium hydrogen fumarate: An XRD and NMR crystallography analysis. Magnetic Resonance in Chemistry, 2020, 58, 1026-1035.	1.9	4
24	(M,Ru)O₂ (M = Mg, Zn, Cu, Ni, Co) Rutiles and Their Use as Oxygen Evolution Electrocatalysts in Membrane Electrode Assemblies under Acidic Conditions. Chemistry of Materials, 2020, 32, 6150-6160.	6.7	17
25	Investigating discrepancies between experimental solid-state NMR and GIPAW calculation: N Câ€“N 13C and OHâ‹¯O 1H chemical shifts in pyridinium fumarates and their cocrystals. Solid State Nuclear Magnetic Resonance, 2020, 108, 101662.	2.3	13
26	Electric Fieldâ€Controlled Synthesis and Characterisation of Single Metalâ€“Organicâ€Framework (MOF) Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 19696-19701.	13.8	31
27	Synthesis and Polymorphism of Mixed Aluminumâ€“Gallium Oxides. Inorganic Chemistry, 2020, 59, 3805-3816.	4.0	28
28	Structures of mixed manganese ruthenium oxides (Mn_{1â^'x}Ru_x)O₂ crystallised under acidic hydrothermal conditions. Dalton Transactions, 2020, 49, 2661-2670.	3.3	8
29	Perovskite Oxides Prepared by Hydrothermal and Solvothermal Synthesis: A Review of Crystallisation, Chemistry, and Compositions. Chemistry - A European Journal, 2020, 26, 9041-9069.	3.3	59
30	Ga2.52V2Â·48O7Â·33(OH)0.67, a synthetic member of the nolanite/akdalaite-type family of oxyhydroxides containing trivalent vanadium. Journal of Solid State Chemistry, 2020, 288, 121396.	2.9	0
31	The intercalation of 1,10-phenanthroline into layered NiPS₃via iron dopant seeding. Chemical Communications, 2020, 56, 4603-4606.	4.1	7
32	A hydrothermally stable ytterbium metalâ€“organic framework as a bifunctional solid-acid catalyst for glucose conversion. Chemical Communications, 2019, 55, 11446-11449.	4.1	32
33	Raman spectroscopy of the low-dimensional antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrRu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:mrow></mml:math> with large NÃ©el temperature. Physical Review B, 2019, 99, .	3.2	9
34	Ion-exchange resin as a new tool for characterisation of coordination compounds and MOFs by NMR spectroscopy. Chemical Communications, 2019, 55, 8106-8109.	4.1	5
35	Replacement of Chromium by Non-Toxic Metals in Lewis-Acid MOFs: Assessment of Stability as Glucose Conversion Catalysts. Catalysts, 2019, 9, 437.	3.5	35
36	Porous Metalâ€“Organic Frameworks for Enhanced Performance Silicon Anodes in Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 4156-4165.	6.7	34

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37	An XRD and NMR crystallographic investigation of the structure of 2,6-lutidinium hydrogen fumarate. CrystEngComm, 2019, 21, 3502-3516.	2.6	16
38	Heteroatom-doped core/shell carbonaceous framework materials: synthesis, characterization and electrochemical properties. New Journal of Chemistry, 2019, 43, 5632-5641.	2.8	12
39	Nanocrystalline Transition-Metal Gallium Oxide Spinels from Acetylacetonate Precursors via Solvothermal Synthesis. Materials, 2019, 12, 838.	2.9	4
40	Pair Distribution Function Analysis of Structural Disorder by Nb⁵⁺ Inclusion in Ceria: Evidence for Enhanced Oxygen Storage Capacity from Under-Coordinated Oxide. Journal of the American Chemical Society, 2018, 140, 1588-1591.	13.7	32
41	23-Electron Octahedral Molybdenum Cluster Complex [{Mo6I8}Cl6]â^'. Inorganic Chemistry, 2018, 57, 811-820.	4.0	24
42	Exceptionally Efficient and Recyclable Heterogeneous Metalâ€“Organic Framework Catalyst for Glucose Isomerization in Water. ChemCatChem, 2018, 10, 706-709.	3.7	65
43	Frontispiece: Monitoring the Hydrothermal Growth of Cobalt Spinel Water Oxidation Catalysts: From Preparative History to Catalytic Activity. Chemistry - A European Journal, 2018, 24, .	3.3	0
44	MILâ€53 and its Isoreticular Analogues: a Review of the Chemistry and Structure of a Prototypical Flexible Metalâ€Organic Framework. Israel Journal of Chemistry, 2018, 58, 1019-1035.	2.3	82
45	A highly active and synergistic Pt/Mo2C/Al2O3 catalyst for water-gas shift reaction. Molecular Catalysis, 2018, 455, 38-47.	2.0	36
46	Incorporation of Sb5+ into CeO2: local structural distortion of the fluorite structure from a pentavalent substituent. Dalton Transactions, 2018, 47, 9693-9700.	3.3	3
47	Highly Selective Continuous Flow Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in a Pt/SiO2 Coated Tube Reactor. Catalysts, 2018, 8, 58.	3.5	23
48	An expanded MIL-53-type coordination polymer with a reactive pendant ligand. CrystEngComm, 2018, 20, 4355-4358.	2.6	5
49	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006120.	4.8	67
50	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. Inorganic Chemistry, 2018, 57, 11217-11224.	4.0	8
51	Air and moisture stable covalently-bonded tin(<scp>ii</scp>) coordination polymers. Dalton Transactions, 2018, 47, 8013-8022.	3.3	20
52	Monitoring the Hydrothermal Growth of Cobalt Spinel Water Oxidation Catalysts: From Preparative History to Catalytic Activity. Chemistry - A European Journal, 2018, 24, 18424-18435.	3.3	13
53	Cs_{1â^'x}Rb_xSnI₃light harvesting semiconductors for perovskite photovoltaics. Materials Chemistry Frontiers, 2018, 2, 1515-1522.	5.9	31
54	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. , 2018, 45, .		15

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55	A Multinuclear NMR Study of Six Forms of AlPO-34: Structure and Motional Broadening. Journal of Physical Chemistry C, 2017, 121, 1781-1793.	3.1	25
56	Structural variety in ytterbium dicarboxylate frameworks and in situ study diffraction of their solvothermal crystallisation. CrystEngComm, 2017, 19, 2424-2433.	2.6	13
57	High energy X-rays for following metal-organic framework formation: Identifying intermediates in interpenetrated MOF-5 crystallisation. Microporous and Mesoporous Materials, 2017, 254, 178-183.	4.4	19
58	Time-Resolved Powder X-ray Diffraction of the Solvothermal Crystallization of Cobalt Gallate Spinel Photocatalyst Reveals Transient Layered Double Hydroxides. Chemistry of Materials, 2017, 29, 5053-5057.	6.7	14
59	Ag2Cu3Cr2O8(OH)4: a new bidimensional silverâ€“copper mixed-oxyhydroxide with in-plane ferromagnetic coupling. Dalton Transactions, 2017, 46, 1093-1104.	3.3	4
60	Elucidating the role of the hole-extracting electrode on the stability and efficiency of invertedÂCsSnI₃/C₆₀perovskite photovoltaics. Journal of Materials Chemistry A, 2017, 5, 21836-21845.	10.3	23
61	In situ neutron diffraction study of the formation of Ho₂Ge₂O₇ pyrochlore at high temperature and pressure. Dalton Transactions, 2017, 46, 15415-15423.	3.3	9
62	Controlled fabrication of osmium nanocrystals by electron, laser and microwave irradiation and characterisation by microfocus X-ray absorption spectroscopy. Chemical Communications, 2017, 53, 12898-12901.	4.1	12
63	Synthesis and activation for catalysis of Fe-SAPO-34 prepared using iron polyamine complexes as structure directing agents. Catalysis Science and Technology, 2017, 7, 4366-4374.	4.1	10
64	Structural Disorder in (Bi, M)2(Fe, Mn, Bi)2O6+x (M = Na or K) Pyrochlores Seen from Reverse Monte Carlo Analysis of Neutron Total Scattering. Journal of Physical Chemistry C, 2017, 121, 18120-18128.	3.1	1
65	Electrical semiconduction modulated by light in a cobalt and naphthalene diimide metal-organic framework. Nature Communications, 2017, 8, 2139.	12.8	51
66	A gel aging effect in the synthesis of open-framework gallium phosphates: structure solution and solid-state NMR of a large-pore, open-framework material. Dalton Transactions, 2017, 46, 16895-16904.	3.3	4
67	The ambient hydration of the aluminophosphate JDF-2 to AlPO-53(A): insights from NMR crystallography. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 191-201.	0.5	6
68	Transmural electrophysiological heterogeneity, the T-wave and ventricular arrhythmias. Progress in Biophysics and Molecular Biology, 2016, 122, 202-214.	2.9	25
69	Inâ€…Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2012-2016.	13.8	53
70	Exchange of Coordinated Solvent During Crystallization of a Metalâ€“Organic Framework Observed by In Situ Highâ€Energy Xâ€ray Diffraction. Angewandte Chemie - International Edition, 2016, 55, 4992-4996.	13.8	41
71	Ba4Ru3O10.2(OH)1.8: a new member of the layered hexagonal perovskite family crystallised from water. Chemical Communications, 2016, 52, 6375-6378.	4.1	10
72	Exchange of Coordinated Solvent During Crystallization of a Metalâ€“Organic Framework Observed by In Situ Highâ€Energy Xâ€ray Diffraction. Angewandte Chemie, 2016, 128, 5076-5080.	2.0	14

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73	Iodine sequestration by thiol-modified MIL-53(Al). CrystEngComm, 2016, 18, 8108-8114.	2.6	54
74	Controlling the crystallisation of oxide materials by solvothermal chemistry: tuning composition, substitution and morphology of functional solids. CrystEngComm, 2016, 18, 7656-7670.	2.6	25
75	Enhanced stability and efficiency in hole-transport-layer-free CsSnI3 perovskite photovoltaics. Nature Energy, 2016, 1, .	39.5	491
76	Local Aâ€Site Layering in Rareâ€Earth Orthochromite Perovskites by Solution Synthesis. Chemistry - A European Journal, 2016, 22, 18362-18367.	3.3	14
77	Towards scalable and controlled synthesis of metalâ€“organic framework materials using continuous flow reactors. Reaction Chemistry and Engineering, 2016, 1, 352-360.	3.7	68
78	Inâ€…Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metalâ€“Organic Frameworks. Angewandte Chemie, 2016, 128, 2052-2056.	2.0	15
79	The flexibility of modified-linker MIL-53 materials. Dalton Transactions, 2016, 45, 4162-4168.	3.3	37
80	Antiferromagnetism atT>500Kin the layered hexagonal ruthenateSrRu2O6. Physical Review B, 2015, 92, .	3.2	43
81	Comparison of techniques for the synthesis of hydroxyapatite. Bioinspired, Biomimetic and Nanobiomaterials, 2015, 4, 37-47.	0.9	23
82	Spontaneous formation of circular and vortex ferroelectric domain structure in hexagonal YMnO3 and YMn0.9Fe0.1O3 prepared by low temperature solution synthesis. Applied Physics Letters, 2015, 107, .	3.3	15
83	Introduction to the special issue on energy materials. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 583-584.	1.1	0
84	Incorporation of square-planar Pd²⁺ in fluorite CeO₂: hydrothermal preparation, local structure, redox properties and stability. Journal of Materials Chemistry A, 2015, 3, 13072-13079.	10.3	40
85	Quantification of the Transmural Dynamics of Atrial Fibrillation by Simultaneous Endocardial and Epicardial Optical Mapping in an Acute Sheep Model. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 456-465.	4.8	44
86	An investigation of Zr doping in NaBiTi₂O₆ perovskite by direct hydrothermal synthesis. Dalton Transactions, 2015, 44, 10714-10720.	3.3	3
87	Metalâ€“Organic Frameworks from Divalent Metals and 1,4-Benzenedicarboxylate with Bidentate Pyridine-N-oxide Co-ligands. Crystal Growth and Design, 2015, 15, 891-899.	3.0	19
88	Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga₂O₃ Photocatalyst as an Example. Journal of Physical Chemistry C, 2015, 119, 18221-18228.	3.1	101
89	Tuning the properties of the UiO-66 metal organic framework by Ce substitution. Chemical Communications, 2015, 51, 14458-14461.	4.1	79
90	An NMR crystallography study of the hemihydrate of 2â€², 3â€²-O-isopropylidineguanosine. Solid State Nuclear Magnetic Resonance, 2015, 65, 41-48.	2.3	48

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91	Theoretical study of conformational disorder and selective adsorption of small organic molecules in the flexible metal-organic framework material MIL-53-Fe. Molecular Simulation, 2015, 41, 1348-1356.	2.0	7
92	Tin perovskite/fullerene planar layer photovoltaics: improving the efficiency and stability of lead-free devices. Journal of Materials Chemistry A, 2015, 3, 11631-11640.	10.3	188
93	Control of chemical state of cerium in doped anatase TiO₂by solvothermal synthesis and its application in photocatalytic water reduction. Journal of Materials Chemistry A, 2015, 3, 9890-9898.	10.3	27
94	Synthesis and Luminescent Properties of REVO₄â€“REPO₄ (RE = Y, Eu, Gd, Er, Tm,) Tj ETQq0 0 0 rgBT /Overlo Journal of Physical Chemistry C, 2015, 119, 24062-24074.	3.1	40
95	Location of CO₂during its uptake by the flexible porous metalâ€“organic framework MIL-53(Fe): a high resolution powder X-ray diffraction study. CrystEngComm, 2015, 17, 422-429.	2.6	19
96	Metastable (Bi, M)₂(Fe, Mn, Bi)₂O_{6+x} (M = Na or K) Pyrochlores from Hydrothermal Synthesis. Inorganic Chemistry, 2014, 53, 13197-13206.	4.0	20
97	Mixedâ€Metal MILâ€100(Sc,M) (M=Al, Cr, Fe) for Lewis Acid Catalysis and Tandem Cï£¿C Bond Formation and Alcohol Oxidation. Chemistry - A European Journal, 2014, 20, 17185-17197.	3.3	104
98	Ruthenium(V) Oxides from Lowâ€Temperature Hydrothermal Synthesis. Angewandte Chemie - International Edition, 2014, 53, 4423-4427.	13.8	70
99	Investigation of some new hydro(solvo)thermal synthesis routes to nanostructured mixed-metal oxides. Journal of Solid State Chemistry, 2014, 214, 30-37.	2.9	8
100	Synthesis, structures and properties of a family of four two-dimensional coordination polymers constructed from 5-hydroxyisophthalate. Journal of Solid State Chemistry, 2014, 211, 8-20.	2.9	4
101	Conformation-Controlled Sorption Properties and Breathing of the Aliphatic Al-MOF [Al(OH)(CDC)]. Inorganic Chemistry, 2014, 53, 4610-4620.	4.0	74
102	Synthesis, characterization and properties of a family of lead(<scp>ii</scp>)â€“organic frameworks based on a multi-functional ligand 2-amino-4-sulfobenzoic acid exhibiting auxiliary ligand-dependent dehydrationâ€“rehydration behaviours. Dalton Transactions, 2014, 43, 11597-11610.	3.3	11
103	Waterâ€Splitting Electrocatalysis in Acid Conditions Using Ruthenateâ€Iridate Pyrochlores. Angewandte Chemie - International Edition, 2014, 53, 10960-10964.	13.8	193
104	Distortions of a flexible metal-organic framework from substituted pendant ligands. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 11-18.	1.1	6
105	Characterization of Structural Disorder in Î³-Ga₂O₃. Journal of Physical Chemistry C, 2014, 118, 16188-16198.	3.1	107
106	Thermal transformations of Cuâ€“Mg (Zn)â€“Al(Fe) hydrotalcite-like materials into metal oxide systems and their catalytic activity in selective oxidation of ammonia to dinitrogen. Journal of Thermal Analysis and Calorimetry, 2013, 114, 731-747.	3.6	35
107	Preparation, structural diversity and characterization of a family of Cd(ii)â€“organic frameworks. Dalton Transactions, 2013, 42, 12468.	3.3	15
108	High-resolution inelastic neutron scattering and neutron powder diffraction study of the adsorption of dihydrogen by the Cu(II) metalâ€“organic framework material HKUST-1. Chemical Physics, 2013, 427, 9-17.	1.9	14

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109	Structures and Magnetism of the Rare-Earth Orthochromite Perovskite Solid Solution La_xSm_{1â€“x}CrO₃. Inorganic Chemistry, 2013, 52, 12161-12169.	4.0	50
110	Investigation of the hydrothermal crystallisation of the perovskite solid solution NaCe1â^'La Ti2O6 and its defect chemistry. Journal of Solid State Chemistry, 2013, 207, 117-125.	2.9	8
111	Adsorption of N/S heterocycles in the flexible metalâ€“organic framework MIL-53(FeIII) studied by in situ energy dispersive X-ray diffraction. Physical Chemistry Chemical Physics, 2013, 15, 8606.	2.8	44
112	Interaction of methanol with the flexible metal-organic framework MIL-53(Fe) observed by inelastic neutron scattering. Chemical Physics, 2013, 427, 30-37.	1.9	24
113	Heterobimetallic Sodiumâ€“Lithium Based Metalâ€“Organic Framework Showing the Î²â€Cristobalite Topology and Having High Permanent Porosity. European Journal of Inorganic Chemistry, 2013, 2013, 1138-1141.	2.0	16
114	Structures of Uncharacterised Polymorphs of Gallium Oxide from Total Neutron Diffraction. Chemistry - A European Journal, 2013, 19, 2803-2813.	3.3	316
115	Isomorphous Substitution in a Flexible Metalâ€“Organic Framework: Mixed-Metal, Mixed-Valent MIL-53 Type Materials. Inorganic Chemistry, 2013, 52, 8171-8182.	4.0	64
116	M(ii) (M = Mn, Co, Ni) variants of the MIL-53-type structure with pyridine-N-oxide as a co-ligand. CrystEngComm, 2013, 15, 9679.	2.6	28
117	Total neutron scattering investigation of the structure of a cobalt gallium oxide spinel prepared by solvothermal oxidation of gallium metal. Journal of Physics Condensed Matter, 2013, 25, 454212.	1.8	7
118	Crystallisation Kinetics of Metal Organic Frameworks From in situ Time-Resolved X-ray Diffraction. Powder Diffraction, 2013, 28, S256-S275.	0.2	52
119	Microstructure and oxidation states in multiferroic Lu2(Fe,Mn)3O7. Journal of Applied Physics, 2012, 112, .	2.5	1
120	Synthesis, Structure, and Crystallization Study of a Layered Lithium Thiophene-Dicarboxylate. Crystal Growth and Design, 2012, 12, 1531-1537.	3.0	37
121	Calcium sulfate-phosphate composites with enhanced water resistance. Journal of Materials Chemistry, 2012, 22, 4837.	6.7	4
122	Inference of oxygen vacancies in hydrothermal Na0.5Bi0.5TiO3. Applied Physics Letters, 2012, 101, 142902.	3.3	22
123	Liquid-Phase Adsorption and Separation of Xylene Isomers by the Flexible Porous Metalâ€“Organic Framework MIL-53(Fe). Chemistry of Materials, 2012, 24, 2781-2791.	6.7	160
124	A Multinuclear Solid-State NMR Study of Templated and Calcined Chabazite-Type GaPO-34. Journal of Physical Chemistry C, 2012, 116, 15048-15057.	3.1	24
125	Bismuth Iridium Oxide Oxygen Evolution Catalyst from Hydrothermal Synthesis. Chemistry of Materials, 2012, 24, 4192-4200.	6.7	106
126	Phonon Raman scattering of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math>CrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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127	A lithiumâ€“organic framework with coordinatively unsaturated metal sites that reversibly binds water. Chemical Communications, 2012, 48, 10639.	4.1	29
128	Instant MOFs: continuous synthesis of metalâ€“organic frameworks by rapid solvent mixing. Chemical Communications, 2012, 48, 10642.	4.1	103
129	Hierarchically Structured Ceria-Silica: Synthesis and Thermal Properties. Journal of Physical Chemistry C, 2012, 116, 13435-13445.	3.1	23
130	Tuning the breathing behaviour of MIL-53 by cation mixing. Chemical Communications, 2012, 48, 10237.	4.1	129
131	Structural, spectroscopic, magnetic and electrical characterization of Ca-doped polycrystalline bismuth ferrite, Bi_{1â^'x}Ca_xFeO_{3â^'x/2}(xâ‰) Tj ET Q q 1 1 0 0	3.8	84314
132	Hydrothermal synthesis map of bismuth titanates. Journal of Solid State Chemistry, 2012, 189, 32-37.	2.9	31
133	Structural variety in iridate oxides and hydroxides from hydrothermal synthesis. Chemical Science, 2011, 2, 1573.	7.4	22
134	Dissolution Kinetics of Polycrystalline Calcium Sulfate-Based Materials: Influence of Chemical Modification. ACS Applied Materials & Interfaces, 2011, 3, 3528-3537.	8.0	17
135	93Nb NMR and DFT investigation of the polymorphs of NaNbO3. Physical Chemistry Chemical Physics, 2011, 13, 7565.	2.8	50
136	A time-resolved diffraction study of a window of stability in the synthesis of a copper carboxylate metalâ€“organic framework. CrystEngComm, 2011, 13, 103-108.	2.6	130
137	Structural Characterization and Redox Catalytic Properties of Cerium(IV) Pyrochlore Oxides. Chemistry of Materials, 2011, 23, 5464-5473.	6.7	12
138	Direct Hydrothermal Synthesis and Physical Properties of Rare-Earth and Yttrium Orthochromite Perovskites. Chemistry of Materials, 2011, 23, 48-56.	6.7	152
139	Rapid and reversible formation of a crystalline hydrate of a metalâ€“organic framework containing a tube of hydrogen-bonded water. Chemical Communications, 2011, 47, 713-715.	4.1	43
140	Solvothermal synthesis of cerium oxides. Progress in Crystal Growth and Characterization of Materials, 2011, 57, 93-108.	4.0	53
141	Uptake of Liquid Alcohols by the Flexible Fe^{III} Metalâ€“Organic Framework MILâ€53 Observed by Timeâ€Resolved In Situ Xâ€ray Diffraction. Chemistry - A European Journal, 2011, 17, 7069-7079.	3.3	42
142	Controlled Hydrothermal Synthesis of Complex Mixed Oxides Using Solution Redox Chemistry. Materials Research Society Symposia Proceedings, 2011, 1309, 67.	0.1	0
143	ElAM: A computer program for the analysis and representation of anisotropic elastic properties. Computer Physics Communications, 2010, 181, 2102-2115.	7.5	321
144	Timeâ€Resolved In Situ Diffraction Study of the Solvothermal Crystallization of Some Prototypical Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2010, 49, 763-766.	13.8	192

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145	Elastic anisotropy and extreme Poissonâ€™s ratios in single crystals. Acta Materialia, 2010, 58, 6444-6451.	7.9	136
146	An investigation of the properties of large crystals of the zeolites dodecasil-3C and ferrierite by high-temperature birefringence microscopy and X-ray diffraction. Journal of Applied Crystallography, 2010, 43, 168-175.	4.5	3
147	Nanocrystalline Ceriumâ^'Bismuth Oxides: Synthesis, Structural Characterization, and Redox Properties. Chemistry of Materials, 2010, 22, 6191-6201.	6.7	39
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