David M Pickup

List of Publications by Year
in descending order

36 papers	3,100 citations	331538 21 h-index	345118 36 g-index
36 all docs	36 docs citations	36 times ranked	3725 citing authors

#	Article	IF	Citations
1	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. Nature Chemistry, 2016, 8, 684-691.	6.6	898
2	Oxygen redox chemistry without excess alkali-metal ions in Na2/3[Mg0.28Mn0.72]O2. Nature Chemistry, 2018, 10, 288-295.	6.6	414
3	Bioactive functional materials: a perspective on phosphate-based glasses. Journal of Materials Chemistry, 2009, 19, 690-701.	6.7	289
4	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O₂. Journal of the American Chemical Society, 2016, 138, 11211-11218.	6.6	271
5	Antimicrobial Galliumâ€Doped Phosphateâ€Based Glasses. Advanced Functional Materials, 2008, 18, 732-741.	7.8	161
6	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. Chemistry of Materials, 2019, 31, 3293-3300.	3.2	147
7	Effect of Silver Content on the Structure and Antibacterial Activity of Silver-Doped Phosphate-Based Glasses. Antimicrobial Agents and Chemotherapy, 2007, 51, 4453-4461.	1.4	103
8	A structural study of solâ€“gel and melt-quenched phosphate-based glasses. Journal of Non-Crystalline Solids, 2007, 353, 1759-1765.	1.5	75
9	Solâ€“gel synthesis of the P2O5â€“CaOâ€“Na2Oâ€“SiO2 system as a novel bioresorbable glass. Journal of Materials Chemistry, 2005, 15, 2134.	6.7	69
10	Electrochemical recycling of lead from hybrid organicâ€“inorganic perovskites using deep eutectic solvents. Green Chemistry, 2016, 18, 2946-2955.	4.6	62
11	An Aqueous Reduction Method To Synthesize Spinel-LiMn2O4Nanoparticles as a Cathode Material for Rechargeable Lithium-Ion Batteries. Chemistry of Materials, 2003, 15, 4211-4216.	3.2	60
12	The structure of a bioactive calciaâ€“silica solâ€“gel glass. Journal of Materials Chemistry, 2005, 15, 2369.	6.7	60
13	Synthesis, characterisation and performance of (TiO2)0.18(SiO2)0.82 xerogel catalysts. Journal of Materials Chemistry, 2000, 10, 2495-2501.	6.7	53
14	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. Journal of the American Chemical Society, 2017, 139, 5842-5848.	6.6	53
15	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. ACS Applied Energy Materials, 2020, 3, 184-191.	2.5	53
16	New solâ€“gel synthesis of a (CaO)0.3(Na2O)0.2(P2O5)0.5 bioresorbable glass and its structural characterisation. Journal of Materials Chemistry, 2007, 17, 4777.	6.7	52
17	Structure of (Ta2O5)x(SiO2)1 â^' x xerogels (x = 0.05, 0.11, 0.18, 0.25 and 1.0) from FTIR, 29Si and 17O MAS NMR and EXAFS. Journal of Materials Chemistry, 2000, 10, 1887-1894.	6.7	40
18	Solâ€“Gel Phosphate-based Glass for Drug Delivery Applications. Journal of Biomaterials Applications, 2012, 26, 613-622.	1.2	31

#	Article	IF	Citations
19	Characterisation of phosphate coacervates for potential biomedical applications. Journal of Biomaterials Applications, 2014, 28, 1226-1234.	1.2	27
20	The effect of zinc and titanium on the structure of calciumâ€“sodium phosphate based glass. Journal of Non-Crystalline Solids, 2010, 356, 1319-1324.	1.5	23
21	Ti K-edge XANES study of the local environment of titanium in bioresorbable TiO2â€“CaOâ€“Na2Oâ€“P2O5 glasses. Journal of Materials Science: Materials in Medicine, 2008, 19, 1681-1685.	1.7	21
22	Structural Characteristics of Antibacterial Bioresorbable Phosphate Glass. Advanced Functional Materials, 2008, 18, 634-639.	7.8	19
23	Catalytic Transformation of Carbon Black to Carbon Nanotubes. Chemistry of Materials, 2002, 14, 4498-4501.	3.2	17
24	Vacancy-Enhanced Oxygen Redox Reversibility in P3-Type Magnesium-Doped Sodium Manganese Oxide Na_{0.67}Mg_{0.2}Mn_{0.8}O₂. ACS Applied Energy Materials, 2020, 3, 10423-10434.	2.5	17
25	Antibacterial silver-doped phosphate-based glasses prepared by coacervation. Journal of Materials Chemistry B, 2019, 7, 7744-7755.	2.9	15
26	Activation of anion redox in P3 structure cobalt-doped sodium manganese oxide via introduction of transition metal vacancies. Journal of Power Sources, 2021, 481, 229010.	4.0	14
27	Solâ€“gel preparation and high-energy XRD study of (CaO)x(TiO2)0.5â^'x(P2O5)0.5 glasses (xÂ=Â0 and 0.25). Journal of Materials Science: Materials in Medicine, 2008, 19, 1661-1668.	1.7	13
28	6Li MAS NMR study of stoichiometric and chemically delithiated LixMn2O4 spinels. Journal of Materials Chemistry, 2003, 13, 963-968.	6.7	10
29	Bioactive Solâ€“Gel Glasses at the Atomic Scale: The Complementary Use of Advanced Probe and Computer Modeling Methods. International Journal of Applied Glass Science, 2016, 7, 147-153.	1.0	9
30	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. Inorganic Chemistry, 2018, 57, 11217-11224.	1.9	8
31	Neutron diffraction study of antibacterial bioactive calcium silicate solâ€gel glasses containing silver. International Journal of Applied Glass Science, 2017, 8, 364-371.	1.0	4
32	Antibacterial, remineralising and matrix metalloproteinase inhibiting scandium-doped phosphate glasses for treatment of dental caries. Dental Materials, 2022, 38, 94-107.	1.6	4
33	Tuning Antisite Defect Density in Perovskite-BaLiF₃ via Cycling between Ball Milling and Heating. Journal of Physical Chemistry Letters, 2018, 9, 5121-5124.	2.1	3
34	Exploring the Effects of Synthetic and Postsynthetic Grinding on the Properties of the Spin Crossover Material [Fe(atrz)3](BF4)2 (atrz = 4-Amino-4H-1,2,4-Triazole). Magnetochemistry, 2020, 6, 44.	1.0	3
35	Solid State NMR as A Probe of Inorganic Materials:Examples From Glasses and Sol-Gels. Materials Research Society Symposia Proceedings, 2006, 984, 1.	0.1	1
36	A high energy X-ray diffraction study of solâ€“gel derived (Ta2O5) x (SiO2)1â^'x glasses (xÂ=Â0.05, 0.11 and) Tj ETQq0 0 0 rgBT /Overlo 153-159.	1.1	1