

Martin K Schreyer

List of Publications by Citations

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37
papers

2,765
citations

19
h-index

45
g-index

45
ext. papers

3,009
ext. citations

5.6
avg, IF

4.71
L-index

#	Paper	IF	Citations
37	Synthesis and crystal chemistry of the hybrid perovskite (CH ₃ NH ₃)PbI ₃ for solid-state sensitised solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5628	13	1972
36	High performance of MgO mixed oxides supported Ni catalysts for dry reforming of methane: The effect of crystal structure. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13631-13642	6.7	87
35	A layered oxalato-phosphate framework as a cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5721	13	65
34	Tuning the aspect ratio of NH ₂ -MIL-53(Al) microneedles and nanorods via coordination modulation. <i>CrystEngComm</i> , 2013 , 15, 654-657	3.3	62
33	Synthesis and Characterization of Ag ₂ NiO ₂ Showing an Uncommon Charge Distribution. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 643-646	16.4	47
32	Dual-phase titanate/anatase with nitrogen doping for enhanced degradation of organic dye under visible light. <i>Chemistry - A European Journal</i> , 2011 , 17, 2575-8	4.8	29
31	Simultaneous determination of several crystal structures from powder mixtures: the combination of powder X-ray diffraction, band-target entropy minimization and Rietveld methods. <i>Journal of Applied Crystallography</i> , 2014 , 47, 659-667	3.8	28
30	Five-dimensional incommensurate structure of the melilite electrolyte [CaNd] ₂ [Ga] ₂ [Ga ₂ O ₇] ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 15200-11	16.4	28
29	NaSn ₂ : a novel binary Zintl phase with 2D polyanions of Realgar-type units [Sn ₈] ⁴⁻ . <i>Inorganic Chemistry</i> , 2005 , 44, 477-9	5.1	26
28	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO(4.25). <i>Journal of the American Chemical Society</i> , 2016 , 138, 1273-9	16.4	25
27	Investigating the effect of moisture protection on solid-state stability and dissolution of fenofibrate and ketoconazole solid dispersions using PXRD, HSDSC and Raman microscopy. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 1026-35	3.6	25
26	The influence of cobalt doping on photocatalytic nano-titania: Crystal chemistry and amorphicity. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2905-2915	3.3	24
25	Dispersed and high loading Ni catalyst stabilized in porous SiO ₂ matrix for substituted natural gas production. <i>Catalysis Today</i> , 2018 , 299, 193-200	5.3	23
24	Concurrent synergism and inhibition in bimetallic catalysis: catalytic binuclear elimination, solute-solute interactions and a hetero-bimetallic hydrogen-bonded complex in rh-mo hydroformylations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4589-99	16.4	23
23	Thermal and in Situ X-ray Diffraction Analysis of a Dimorphic Co-Crystal, 1:1 Caffeine-Glutaric Acid. <i>Crystal Growth and Design</i> , 2016 , 16, 578-586	3.5	21
22	The role of metal-support interaction for CO-free hydrogen from low temperature ethanol steam reforming on Rh-Fe catalysts. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4199-4207	3.6	21
21	Nitrogen-sensitized dual phase titanate/titania for visible-light driven phenol degradation. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 518-527	3.3	21

20	Synthesis, crystal structure, and catalytic properties of MgCo ₆ Ge ₆ . <i>Chemistry - A European Journal</i> , 2006 , 12, 1924-30	4.8	21
19	From molecule to material: Mg ₂ Sn as hydrogenation catalyst. <i>Catalysis Communications</i> , 2006 , 7, 618-623	3.2	20
18	Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Chemistry of Materials</i> , 2013 , 25, 1109-1120	9.6	18
17	Synthesis, structure and properties of Ag ₂ PdO ₂ . <i>Solid State Sciences</i> , 2001 , 3, 25-30	3.4	18
16	New insights into the relationship between structure and photocatalytic properties of TiO ₂ catalysts. <i>RSC Advances</i> , 2015 , 5, 2421-2428	3.7	17
15	Crystal chemistry and optimization of conductivity in 2A, 2M and 2H alkaline earth lanthanum germanate oxyapatite electrolyte polymorphs. <i>Solid State Ionics</i> , 2010 , 181, 1189-1196	3.3	15
14	Pseudomorphic 2A--> 2M--> 2H phase transitions in lanthanum strontium germanate electrolyte apatites. <i>Dalton Transactions</i> , 2009 , 8280-91	4.3	14
13	Novel Combination of Coordination Polyhedra in Mg ₂ Co ₃ Sn _{10+x} - The First Phase in the Mg/Co/Sn System. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 2520-2526	1.3	14
12	Phase compatibility and preparation of composite. <i>Superconductor Science and Technology</i> , 1998 , 11, 880-886	3.1	13
11	Synthesis and Characterization of Ag ₂ NiO ₂ Showing an Uncommon Charge Distribution. <i>Angewandte Chemie</i> , 2002 , 114, 665-668	3.6	12
10	The influence of stereochemically active lone-pair electrons on crystal symmetry and twist angles in lead apatite-2H type structures. <i>Mineralogical Magazine</i> , 2014 , 78, 325-345	1.7	11
9	Oxygen-initiated stereoselective thermal isomerisation of a cyclobutane derivative in the solid state. <i>Chemistry - A European Journal</i> , 2014 , 20, 15702-8	4.8	10
8	Crystal Structure and Properties of MgCo ₄ Ge ₆ . <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 3482-3488	2.3	10
7	Three approaches to total quantitative phase analysis of organic mixtures using an external standard. <i>Journal of Applied Crystallography</i> , 2011 , 44, 17-24	3.8	9
6	Nonstoichiometry, amorphicity and microstructural evolution during phase transformations of photocatalytic titania powders. <i>Journal of Applied Crystallography</i> , 2009 , 42, 917-924	3.8	8
5	A multi-domain gem-grade Brazilian apatite. <i>American Mineralogist</i> , 2012 , 97, 1574-1581	2.9	8
4	Heteroatomic Zn-MWW Zeolite Developed for Catalytic Dehydrogenation Reactions: A Combined Experimental and DFT Study. <i>ChemCatChem</i> , 2018 , 10, 3078-3085	5.2	7
3	Ca ₇ Co ₈ Sn ₂₅ Ca ₃ Co ₄ Sn ₁₃ revised. <i>Solid State Sciences</i> , 2006 , 8, 793-797	3.4	7

2	Determination of the individual specific heat capacities of solids from multi-component powder mixtures and polymorphic mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 108, 361-370	4.1	5
1	A multicomponent calibration approach to the microabsorption problem involving inorganic mixtures. <i>Journal of Applied Crystallography</i> , 2011 , 44, 25-31	3.8	1