Kyler J Carroll

List of Publications by Year
in descending order

32 papers	2,026 citations	279798 23 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	3616 citing authors

#	Article	IF	Citations
1	Electrocatalytic Hydrogenation of Oxygenates using Earthâ€Abundant Transitionâ€Metal Nanoparticles under Mild Conditions. ChemSusChem, 2016, 9, 1904-1910.	6.8	44
2	Understanding the Role of NH₄F and Al₂O₃ Surface Co-modification on Lithium-Excess Layered Oxide Li_{1.2}Ni_{0.2}Mn_{0.6}O₂. ACS Applied Materials & Interfaces, 2015, 7, 19189-19200.	8.0	87
3	In situ non-aqueous nucleation and growth of next generation rare-earth-free permanent magnets. Physical Chemistry Chemical Physics, 2015, 17, 1070-1076.	2.8	34
4	The local atomic structure and chemical bonding in sodium tin phases. Journal of Materials Chemistry A, 2014, 2, 18959-18973.	10.3	31
5	Understanding improved electrochemical properties of NiO-doped NiF2â€“C composite conversion materials by X-ray absorption spectroscopy and pair distribution function analysis. Physical Chemistry Chemical Physics, 2014, 16, 3095.	2.8	15
6	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu₂Sb Anodes. Journal of Physical Chemistry C, 2014, 118, 7856-7864.	3.1	64
7	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of Li[Li_{2/12}Ni_{3/12}Mn_{7/12}]O₂. ACS Applied Materials & Interfaces, 2014, 6, 18868-18877.	8.0	76
8	Probing the electrode/electrolyte interface in the lithium excess layered oxide Li1.2Ni0.2Mn0.6O2. Physical Chemistry Chemical Physics, 2013, 15, 11128.	2.8	107
9	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. Chemistry of Materials, 2013, 25, 1621-1629.	6.7	242
10	Achieving high efficiency and cyclability in inexpensive soluble lead flow batteries. Energy and Environmental Science, 2013, 6, 1573.	30.8	60
11	Intrinsic Surface Stability in LiMn2â€“xNixO4â€“Î´ (x = 0.45, 0.5) High Voltage Spinel Materials for Lithium Ion Batteries. Electrochemical and Solid-State Letters, 2012, 15, A72.	2.2	30
12	Large-scale synthesis of high moment FeCo nanoparticles using modified polyol synthesis. Journal of Applied Physics, 2012, 111, .	2.5	24
13	Lithium Lanthanum Titanium Oxides: A Fast Ionic Conductive Coating for Lithium-Ion Battery Cathodes. Chemistry of Materials, 2012, 24, 2744-2751.	6.7	115
14	Electronic Spin Transition in Nanosize Stoichiometric Lithium Cobalt Oxide. Journal of the American Chemical Society, 2012, 134, 6096-6099.	13.7	102
15	Magnetic properties of Co2C and Co3C nanoparticles and their assemblies. Applied Physics Letters, 2012, 101, .	3.3	64
16	Conversion mechanism of nickel fluoride and NiO-doped nickel fluoride in Li ion batteries. Electrochimica Acta, 2012, 59, 213-221.	5.2	48
17	Synthesis of high magnetization FeCo alloys prepared by a modified polyol process. Journal of Applied Physics, 2011, 109, 07B514.	2.5	39
18	Plasmonics and Enhanced Magneto-Optics in Coreâ˜Shell Coâ˜Ag Nanoparticles. Nano Letters, 2011, 11, 1237-1240.	9.1	223

#	Article	IF	Citations
19	Preparation of Elemental Cu and Ni Nanoparticles by the Polyol Method: An Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2011, 115, 2656-2664.	3.1	217
20	Characterization of oxidation resistant Fe@M (M=Cr, Ni) core@shell nanoparticles prepared by a modified reverse micelle reaction. Journal of Applied Physics, 2011, 109, .	2.5	3
21	A copperâ€“polyol complex: [Na₂(C₂H₆O₂)₆][Cu(C₂H₄O₂)₃]2. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m83-m85.		
22	Poly(bisâ€2,2,2â€trifluoroethoxymethyl oxetane): Multiple crystal phases, crystallizationâ€induced surface topological complexity and enhanced hydrophobicity. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1022-1034.	2.1	7
23	Nonclassical crystallization of amorphous iron nanoparticles by radio frequency methods. Journal of Applied Physics, 2010, 107, 09A302.	2.5	20
24	High magnetization aqueous ferrofluid: A simple one-pot synthesis. Journal of Applied Physics, 2010, 107, 09B304.	2.5	7
25	Dual mode nanoparticles: CdS coated iron nanoparticles. Journal of Applied Physics, 2010, 107, 09B515.	2.5	4
26	Spectrally tunable magnetic nanoparticles designed for distribution/recollection applications. Journal of Applied Physics, 2010, 107, 09B327.	2.5	2
27	Localized surface plasmon resonance enhanced magneto-optical activity in core-shell Feâ€“Ag nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	35
28	Selective Nucleation and Growth of Cu and Ni Core/Shell Nanoparticles. Chemistry of Materials, 2010, 22, 2175-2177.	6.7	41
29	High coercivity cobalt carbide nanoparticles processed via polyol reaction: a new permanent magnet material. Journal Physics D: Applied Physics, 2010, 43, 165003.	2.8	107
30	One-Pot Aqueous Synthesis of Fe and Ag Core/Shell Nanoparticles. Chemistry of Materials, 2010, 22, 6291-6296.	6.7	66
31	Annealing of amorphous FexCo100â^'x nanoparticles synthesized by a modified aqueous reduction using NaBH4. Journal of Applied Physics, 2010, 107, 09A303.	2.5	11
32	Synthesisâ€“Structureâ€“Property Relations in Layered, â€œLi-excessâ€•Oxides Electrode Materials Li[Li[sub 1/3â^'2x/3]Ni[sub x]Mn[sub 2/3â^'x/3]]O[sub 2] (x=1/3, 1/4, and 1/5). Journal of the Electrochemical Society, 2010, 157, A1202.	2.9	88