

Kyler J Carroll

List of Publications by Year in descending order

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32
papers

2,026
citations

279798

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414414

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docs citations

32
times ranked

3616
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. <i>Chemistry of Materials</i> , 2013, 25, 1621-1629.	6.7	242
2	Plasmonics and Enhanced Magneto-Optics in Core-Shell Co-Ag Nanoparticles. <i>Nano Letters</i> , 2011, 11, 1237-1240.	9.1	223
3	Preparation of Elemental Cu and Ni Nanoparticles by the Polyol Method: An Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2656-2664.	3.1	217
4	Lithium Lanthanum Titanium Oxides: A Fast Ionic Conductive Coating for Lithium-Ion Battery Cathodes. <i>Chemistry of Materials</i> , 2012, 24, 2744-2751.	6.7	115
5	High coercivity cobalt carbide nanoparticles processed via polyol reaction: a new permanent magnet material. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 165003.	2.8	107
6	Probing the electrode/electrolyte interface in the lithium excess layered oxide $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11128.	2.8	107
7	Electronic Spin Transition in Nanosize Stoichiometric Lithium Cobalt Oxide. <i>Journal of the American Chemical Society</i> , 2012, 134, 6096-6099.	13.7	102
8	Synthesis-Structure-Property Relations in Layered, Li -excess Oxides Electrode Materials $\text{Li}[\text{Li}_{1/3}\text{Ni}_{2x/3}\text{Mn}_{x/3}\text{O}]_2$ ($x=1/3, 1/4, \text{ and } 1/5$). <i>Journal of the Electrochemical Society</i> , 2010, 157, A1202.	2.9	88
9	Understanding the Role of NH_4F and Al_2O_3 Surface Co-modification on Lithium-Excess Layered Oxide $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19189-19200.	8.0	87
10	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of $\text{Li}_{2/12}\text{Ni}_{3/12}\text{Mn}_{7/12}\text{O}_2$. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18868-18877.	8.0	76
11	One-Pot Aqueous Synthesis of Fe and Ag Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 6291-6296.	6.7	66
12	Magnetic properties of Co_2C and Co_3C nanoparticles and their assemblies. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	64
13	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu_2Sb Anodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7856-7864.	3.1	64
14	Achieving high efficiency and cyclability in inexpensive soluble lead flow batteries. <i>Energy and Environmental Science</i> , 2013, 6, 1573.	30.8	60
15	Conversion mechanism of nickel fluoride and NiO-doped nickel fluoride in Li ion batteries. <i>Electrochimica Acta</i> , 2012, 59, 213-221.	5.2	48
16	Electrocatalytic Hydrogenation of Oxygenates using Earth-Abundant Transition-Metal Nanoparticles under Mild Conditions. <i>ChemSusChem</i> , 2016, 9, 1904-1910.	6.8	44
17	Selective Nucleation and Growth of Cu and Ni Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 2175-2177.	6.7	41
18	Synthesis of high magnetization FeCo alloys prepared by a modified polyol process. <i>Journal of Applied Physics</i> , 2011, 109, 07B514.	2.5	39

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19	Localized surface plasmon resonance enhanced magneto-optical activity in core-shell Fe@Ag nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	35
20	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
21	The local atomic structure and chemical bonding in sodium tin phases. Journal of Materials Chemistry A, 2014, 2, 18959-18973.	10.3	31
22	Intrinsic Surface Stability in LiMn ₂ xNi _x O ₄ (x = 0.45, 0.5) High Voltage Spinel Materials for Lithium Ion Batteries. Electrochemical and Solid-State Letters, 2012, 15, A72.	2.2	30
23	Large-scale synthesis of high moment FeCo nanoparticles using modified polyol synthesis. Journal of Applied Physics, 2012, 111, .	2.5	24
24	Nonclassical crystallization of amorphous iron nanoparticles by radio frequency methods. Journal of Applied Physics, 2010, 107, 09A302.	2.5	20
25	Understanding improved electrochemical properties of NiO-doped NiF ₂ @C composite conversion materials by X-ray absorption spectroscopy and pair distribution function analysis. Physical Chemistry Chemical Physics, 2014, 16, 3095.	2.8	15
26	A copper polyol complex: [Na ₂ (C ₂ H ₆ O ₂) ₆][Cu(C ₂ H ₄ O ₂) ₂] Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m83-m85.		
27	Annealing of amorphous Fe _x Co _{100-x} nanoparticles synthesized by a modified aqueous reduction using NaBH ₄ . Journal of Applied Physics, 2010, 107, 09A303.	2.5	11
28	Poly(bis(2,2,2-trifluoroethoxymethyl oxetane)): Multiple crystal phases, crystallization-induced surface topological complexity and enhanced hydrophobicity. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1022-1034.	2.1	7
29	High magnetization aqueous ferrofluid: A simple one-pot synthesis. Journal of Applied Physics, 2010, 107, 09B304.	2.5	7
30	Dual mode nanoparticles: CdS coated iron nanoparticles. Journal of Applied Physics, 2010, 107, 09B515.	2.5	4
31	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
32	Spectrally tunable magnetic nanoparticles designed for distribution/recollection applications. Journal of Applied Physics, 2010, 107, 09B327.	2.5	2