

Owen C Compton

List of Publications by Year in descending order

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23
papers

6,607
citations

361413

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642732

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docs citations

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times ranked

10790
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Oxide, Highly Reduced Graphene Oxide, and Graphene: Versatile Building Blocks for Carbon-Based Materials. <i>Small</i> , 2010, 6, 711-723.	10.0	2,449
2	Electrically Conductive α -Alkylated Graphene Paper via Chemical Reduction of Amine-Functionalized Graphene Oxide Paper. <i>Advanced Materials</i> , 2010, 22, 892-896.	21.0	568
3	High-Nanofiller Content Graphene Oxide-Polymer Nanocomposites via Vacuum-Assisted Self-Assembly. <i>Advanced Functional Materials</i> , 2010, 20, 3322-3329.	14.9	489
4	Crumpled Graphene Nanosheets as Highly Effective Barrier Property Enhancers. <i>Advanced Materials</i> , 2010, 22, 4759-4763.	21.0	420
5	Tuning the Mechanical Properties of Graphene Oxide Paper and Its Associated Polymer Nanocomposites by Controlling Cooperative Intersheet Hydrogen Bonding. <i>ACS Nano</i> , 2012, 6, 2008-2019.	14.6	409
6	Chemically Active Reduced Graphene Oxide with Tunable C/O Ratios. <i>ACS Nano</i> , 2011, 5, 4380-4391.	14.6	330
7	Bio-Inspired Borate Cross-Linking in Ultra-Stiff Graphene Oxide Thin Films. <i>Advanced Materials</i> , 2011, 23, 3842-3846.	21.0	293
8	Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12800-12804.	3.1	233
9	Successful Stabilization of Graphene Oxide in Electrolyte Solutions: Enhancement of Biofunctionalization and Cellular Uptake. <i>ACS Nano</i> , 2012, 6, 63-73.	14.6	232
10	Evolution of Order During Vacuum-Assisted Self-Assembly of Graphene Oxide Paper and Associated Polymer Nanocomposites. <i>ACS Nano</i> , 2011, 5, 6601-6609.	14.6	172
11	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. <i>Chemistry of Materials</i> , 2010, 22, 4153-4157.	6.7	164
12	Calcium Niobate Semiconductor Nanosheets as Catalysts for Photochemical Hydrogen Evolution from Water. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14589-14592.	3.1	135
13	Niobate Nanosheets as Catalysts for Photochemical Water Splitting into Hydrogen and Hydrogen Peroxide. <i>Journal of Physical Chemistry C</i> , 2009, 113, 479-485.	3.1	129
14	Additive-free hydrogelation of graphene oxide by ultrasonication. <i>Carbon</i> , 2012, 50, 3399-3406.	10.3	125
15	Evolution of Size and Shape in the Colloidal Crystallization of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 7793-7798.	13.7	114
16	A Building Block Approach to Photochemical Water-Splitting Catalysts Based on Layered Niobate Nanosheets. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6202-6208.	3.1	82
17	Improved Graphitic Structure of Continuous Carbon Nanofibers via Graphene Oxide Templating. <i>Advanced Functional Materials</i> , 2013, 23, 5763-5770.	14.9	81
18	Ultrafast Carrier Dynamics in Exfoliated and Functionalized Calcium Niobate Nanosheets in Water and Methanol. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2394-2403.	3.1	72

#	ARTICLE	IF	CITATIONS
19	Tunable Biomolecular Interaction and Fluorescence Quenching Ability of Graphene Oxide: Application to α -Turnon-DNA Sensing in Biological Media. <i>Small</i> , 2012, 8, 2469-2476.	10.0	60
20	Exfoliation and Reassembly of Cobalt Oxide Nanosheets into a Reversible Lithium-Ion Battery Cathode. <i>Small</i> , 2012, 8, 1110-1116.	10.0	34
21	Conductivity through Polymer Electrolytes and Its Implications in Lithium-Ion Batteries: Real-World Application of Periodic Trends. <i>Journal of Chemical Education</i> , 2012, 89, 1442-1446.	2.3	12
22	Graphene: Improved Graphitic Structure of Continuous Carbon Nanofibers via Graphene Oxide Templating (<i>Adv. Funct. Mater.</i> 46/2013). <i>Advanced Functional Materials</i> , 2013, 23, 5762-5762.	14.9	2
23	Controlled Nanofabrication of Uniform Continuous Graphene Oxide/Polyacrylonitrile Nanofibers for Templated Carbonization. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.7	2