Owen C Compton

List of Publications by Citations

22 papers	5,835 citations	20 h-index	23 g-index
23 ext. papers	6,212 ext. citations	11.9 avg, IF	6.02 L-index

#	Paper	IF	Citations
22	Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. *Small*, **2010**, 6, 711-23	11	2103
21	Electrically conductive "alkylated" graphene paper via chemical reduction of amine-functionalized graphene oxide paper. *Advanced Materials*, **2010**, 22, 892-6	24	524
20	High-Nanofiller-Content Graphene Oxide–Polymer Nanocomposites via Vacuum-Assisted Self-Assembly. *Advanced Functional Materials*, **2010**, 20, 3322-3329	15.6	434
19	Crumpled graphene nanosheets as highly effective barrier property enhancers. *Advanced Materials*, **2010**, 22, 4759-63	24	374
18	Tuning the mechanical properties of graphene oxide paper and its associated polymer nanocomposites by controlling cooperative intersheet hydrogen bonding. *ACS Nano*, **2012**, 6, 2008-19	16.7	361
17	Chemically active reduced graphene oxide with tunable C/O ratios. *ACS Nano*, **2011**, 5, 4380-91	16.7	295
16	Bio-inspired borate cross-linking in ultra-stiff graphene oxide thin films. *Advanced Materials*, **2011**, 23, 3842-6	24	245
15	Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2010**, 114, 12800-12804	3.8	223
14	Successful stabilization of graphene oxide in electrolyte solutions: enhancement of biofunctionalization and cellular uptake. *ACS Nano*, **2012**, 6, 63-73	16.7	203
13	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. *Chemistry of Materials*, **2010**, 22, 4153-4157	9.6	156
12	Evolution of order during vacuum-assisted self-assembly of graphene oxide paper and associated polymer nanocomposites. *ACS Nano*, **2011**, 5, 6601-9	16.7	140
11	Calcium Niobate Semiconductor Nanosheets as Catalysts for Photochemical Hydrogen Evolution from Water. *Journal of Physical Chemistry C*, **2007**, 111, 14589-14592	3.8	129
10	Niobate Nanosheets as Catalysts for Photochemical Water Splitting into Hydrogen and Hydrogen Peroxide. *Journal of Physical Chemistry C*, **2009**, 113, 479-485	3.8	118
9	Additive-free hydrogelation of graphene oxide by ultrasonication. *Carbon*, **2012**, 50, 3399-3406	10.4	115
8	Evolution of size and shape in the colloidal crystallization of gold nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 7793-8	16.4	103
7	A Building Block Approach to Photochemical Water-Splitting Catalysts Based on Layered Niobate Nanosheets. *Journal of Physical Chemistry C*, **2008**, 112, 6202-6208	3.8	78
6	Ultrafast Carrier Dynamics in Exfoliated and Functionalized Calcium Niobate Nanosheets in Water and Methanol. *Journal of Physical Chemistry C*, **2008**, 112, 2394-2403	3.8	70

List of Publications

5	Improved Graphitic Structure of Continuous Carbon Nanofibers via Graphene Oxide Templating. *Advanced Functional Materials*, **2013**, 23, 5763-5770	15.6	65
4	Tunable biomolecular interaction and fluorescence quenching ability of graphene oxide: application to "turn-on" DNA sensing in biological media. *Small*, **2012**, 8, 2469-76	11	54
3	Exfoliation and reassembly of cobalt oxide nanosheets into a reversible lithium-ion battery cathode. *Small*, **2012**, 8, 1110-6	11	31
2	Conductivity through Polymer Electrolytes and Its Implications in Lithium-Ion Batteries: Real-World Application of Periodic Trends. *Journal of Chemical Education*, **2012**, 89, 1442-1446	2.4	12
1	Graphene: Improved Graphitic Structure of Continuous Carbon Nanofibers via Graphene Oxide Templating (Adv. Funct. Mater. 46/2013). *Advanced Functional Materials*, **2013**, 23, 5762-5762	15.6	2