Catriona M Mcgilvery

List of Publications by Year
in descending order

21 papers	1,008 citations	623734 14 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	1948 citing authors

#	Article	IF	Citations
1	DNA Tunneling Detector Embedded in a Nanopore. Nano Letters, 2011, 11, 279-285.	9.1	214
2	Light-triggered enzymatic reactions in nested vesicle reactors. Nature Communications, 2018, 9, 1093.	12.8	125
3	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. Journal of Membrane Science, 2016, 520, 465-476.	8.2	107
4	Template-Free Synthesis of Highly Porous Boron Nitride: Insights into Pore Network Design and Impact on Gas Sorption. ACS Nano, 2017, 11, 10003-10011.	14.6	96
5	Mechanistic link between diesel exhaust particles and respiratory reflexes. Journal of Allergy and Clinical Immunology, 2018, 141, 1074-1084.e9.	2.9	75
6	Encapsulation and Polymerization of White Phosphorus Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2017, 56, 8144-8148.	13.8	70
7	L-DOPA functionalized, multi-branched gold nanoparticles as brain-targeted nano-vehicles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 15, 1-11.	3.3	67
8	Nanoanalytical Electron Microscopy Reveals a Sequential Mineralization Process Involving Carbonate-Containing Amorphous Precursors. ACS Nano, 2016, 10, 6826-6835.	14.6	53
9	Nanopore/electrode structures for single-molecule biosensing. Electrochimica Acta, 2010, 55, 8237-8243.	5.2	34
10	Contamination of holey/lacey carbon films in STEM. Micron, 2012, 43, 450-455.	2.2	30
11	Inactivation, Clearance, and Functional Effects of Lung-Instilled Short and Long Silver Nanowires in Rats. ACS Nano, 2017, 11, 2652-2664.	14.6	30
12	Probing flow activity in polyamide layer of reverse osmosis membrane with nanoparticle tracers. Journal of Membrane Science, 2017, 534, 9-17.	8.2	29
13	A Comprehensive Systematic Study on Thermoresponsive Gels: Beyond the Common Architectures of Linear Terpolymers. Polymers, 2017, 9, 31.	4.5	23
14	Release of airborne particles and Ag and Zn compounds from nanotechnology-enabled consumer sprays: Implications for inhalation exposure. Atmospheric Environment, 2017, 155, 85-96.	4.1	21
15	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. ACS Applied Materials & Interfaces, 2020, 12, 19890-19902.	8.0	12
16	Phase evolution and reactivity of Pr2NiO4+Î´ and Ce0.9Gd0.1O2-Î´ composites under solid oxide cell sintering and operation temperatures. International Journal of Hydrogen Energy, 2019, 44, 31458-31465.	7.1	6
17	Characterization of Hafnia Powder Prepared from an Oxychloride Solâ€“Gel. Journal of the American Ceramic Society, 2011, 94, 886-894.	3.8	5
18	Effect of block copolymer architecture and composition on gold nanoparticle fabrication. Polymer Chemistry, 2019, 10, 4637-4642.	3.9	5

#	Article	IF	Citations
19	Investigation of Crystallization Processes from Hafnium Silicate Powders Prepared from an Oxychloride Solâ€Gel. Journal of the American Ceramic Society, 2012, 95, 3985-3991.	3.8	4
20	Characterisation of carbonaceous deposits on diesel injector nozzles. Fuel, 2020, 274, 117629.	6.4	2
21	Advanced Nano-Analysis of a High-K Dielectric Stack. ECS Transactions, 2006, 3, 153-158.	0.5	0