Sebastian Osswald

List of Publications by Year
in descending order

19 papers	2,356 citations	567281 15 h-index	839539 18 g-index
19 all docs	19 docs citations	19 times ranked	3888 citing authors

#	Article	IF	Citations
1	Effect of structure and composition of nanodiamond powders on thermal stability and oxidation kinetics. Carbon, 2018, 132, 616-622.	10.3	30
2	High strainâ€rate response of spiropyran mechanophores in PMMA. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1347-1356.	2.1	36
3	Letting Corrosion Work for You: Novel Pathways to Additive Manufacturing and Nanomaterial Synthesis Using Electrochemicallyâ€Driven Powder Consolidation. Advanced Engineering Materials, 2014, 16, 1147-1159.	3.5	3
4	Low temperature synthesis of carbon nanotube-reinforced aluminum metal composite powders using cryogenic milling. Journal of Materials Research, 2014, 29, 2644-2656.	2.6	17
5	Electronic Property Modification of Singleâ€Walled Carbon Nanotubes by Encapsulation of Sulfurâ€Terminated Graphene Nanoribbons. Small, 2014, 10, 5077-5086.	10.0	9
6	Raman spectroscopy study of the nanodiamond-to-carbon onion transformation. Nanotechnology, 2013, 24, 205703.	2.6	104
7	The effect of mixing methods on the dispersion of carbon nanotubes during the solventâ€free processing of multiwalled carbon nanotube/epoxy composites. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 410-420.	2.1	47
8	Insitu Raman spectroscopy and thermal analysis of the formation of nitrogen-doped graphene from urea and graphite oxide. RSC Advances, 2013, 3, 21763.	3.6	43
9	In Situ Raman Spectroscopy of Oxidation of Carbon Nanomaterials. , 2012, , 291-351.		8
10	Structural evolution of carbide-derived carbons upon vacuum annealing. Carbon, 2012, 50, 4880-4886.	10.3	55
11	Impact of synthesis conditions on surface chemistry and structure of carbide-derived carbons. Thermochimica Acta, 2010, 497, 137-142.	2.7	42
12	Importance of pore size in high-pressure hydrogen storage by porous carbons. International Journal of Hydrogen Energy, 2009, 34, 6314-6319.	7.1	212
13	Anin situRaman spectroscopy study of stress transfer between carbon nanotubes and polymer. Nanotechnology, 2009, 20, 335703.	2.6	83
14	Purification of carbon nanotubes by dynamic oxidation in air. Journal of Materials Chemistry, 2009, 19, 7904.	6.7	54
15	Contribution of Functional Groups to the Raman Spectrum of Nanodiamond Powders. Chemistry of Materials, 2009, 21, 273-279.	6.7	240
16	High Temperature Functionalization and Surface Modification of Nanodiamond Powders. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	9
17	Plasma pressure compaction of nanodiamond. Diamond and Related Materials, 2007, 16, 1967-1973.	3.9	18
18	Monitoring oxidation of multiwalled carbon nanotubes by Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 728-736.	2.5	537

#	Article	IF	Citations
19	Control of sp2/sp3Carbon Ratio and Surface Chemistry of Nanodiamond Powders by Selective Oxidation in Air. Journal of the American Chemical Society, 2006, 128, 11635-11642.	13.7	809