

Sebastian Osswald

List of Publications by Year in descending order

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Version: 2024-02-01

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	Control of sp ² /sp ³ Carbon Ratio and Surface Chemistry of Nanodiamond Powders by Selective Oxidation in Air. <i>Journal of the American Chemical Society</i> , 2006, 128, 11635-11642.	13.7	809
2	Monitoring oxidation of multiwalled carbon nanotubes by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 728-736.	2.5	537
3	Contribution of Functional Groups to the Raman Spectrum of Nanodiamond Powders. <i>Chemistry of Materials</i> , 2009, 21, 273-279.	6.7	240
4	Importance of pore size in high-pressure hydrogen storage by porous carbons. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6314-6319.	7.1	212
5	Raman spectroscopy study of the nanodiamond-to-carbon onion transformation. <i>Nanotechnology</i> , 2013, 24, 205703.	2.6	104
6	An <i>in situ</i> Raman spectroscopy study of stress transfer between carbon nanotubes and polymer. <i>Nanotechnology</i> , 2009, 20, 335703.	2.6	83
7	Structural evolution of carbide-derived carbons upon vacuum annealing. <i>Carbon</i> , 2012, 50, 4880-4886.	10.3	55
8	Purification of carbon nanotubes by dynamic oxidation in air. <i>Journal of Materials Chemistry</i> , 2009, 19, 7904.	6.7	54
9	The effect of mixing methods on the dispersion of carbon nanotubes during the solvent-free processing of multiwalled carbon nanotube/epoxy composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 410-420.	2.1	47
10	In situ Raman spectroscopy and thermal analysis of the formation of nitrogen-doped graphene from urea and graphite oxide. <i>RSC Advances</i> , 2013, 3, 21763.	3.6	43
11	Impact of synthesis conditions on surface chemistry and structure of carbide-derived carbons. <i>Thermochimica Acta</i> , 2010, 497, 137-142.	2.7	42
12	High strain-rate response of spiropyran mechanophores in PMMA. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1347-1356.	2.1	36
13	Effect of structure and composition of nanodiamond powders on thermal stability and oxidation kinetics. <i>Carbon</i> , 2018, 132, 616-622.	10.3	30
14	Plasma pressure compaction of nanodiamond. <i>Diamond and Related Materials</i> , 2007, 16, 1967-1973.	3.9	18
15	Low temperature synthesis of carbon nanotube-reinforced aluminum metal composite powders using cryogenic milling. <i>Journal of Materials Research</i> , 2014, 29, 2644-2656.	2.6	17
16	High Temperature Functionalization and Surface Modification of Nanodiamond Powders. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1039, 1.	0.1	9
17	Electronic Property Modification of Single-Walled Carbon Nanotubes by Encapsulation of Sulfur-Terminated Graphene Nanoribbons. <i>Small</i> , 2014, 10, 5077-5086.	10.0	9
18	In Situ Raman Spectroscopy of Oxidation of Carbon Nanomaterials. , 2012, , 291-351.		8

#	ARTICLE	IF	CITATIONS
19	Letting Corrosion Work for You: Novel Pathways to Additive Manufacturing and Nanomaterial Synthesis Using Electrochemically-Driven Powder Consolidation. <i>Advanced Engineering Materials</i> , 2014, 16, 1147-1159.	3.5	3