

Benoit Simard

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,818
citations

304602

22
h-index

345118

36
g-index

39
all docs

39
docs citations

39
times ranked

2221
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of mechanical performance of epoxy/carbon fiber laminate composites using single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2011, 71, 1569-1578.	3.8	207
2	Hydrogen-Catalyzed, Pilot-Scale Production of Small-Diameter Boron Nitride Nanotubes and Their Macroscopic Assemblies. <i>ACS Nano</i> , 2014, 8, 6211-6220.	7.3	199
3	Single-walled carbon nanotube-epoxy composites for structural and conductive aerospace adhesives. <i>Composites Part B: Engineering</i> , 2015, 69, 87-93.	5.9	132
4	Influence of carbon nanotubes on the thermal, electrical and mechanical properties of poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.4	130
5	Covalent Functionalization of Boron Nitride Nanotubes <i>via</i> Reduction Chemistry. <i>ACS Nano</i> , 2015, 9, 12573-12582.	7.3	105
6	Efficient laser synthesis of single-walled carbon nanotubes through laser heating of the condensing vaporization plume. <i>Carbon</i> , 2004, 42, 1657-1664.	5.4	97
7	The cell labeling efficacy, cytotoxicity and relaxivity of copper-activated MRI/PET imaging contrast agents. <i>Biomaterials</i> , 2011, 32, 1167-1176.	5.7	86
8	Correlation between Young's modulus and impregnation quality of epoxy-impregnated SWCNT buckypaper. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1184-1191.	3.8	85
9	Role of Hydrogen in High-Yield Growth of Boron Nitride Nanotubes at Atmospheric Pressure by Induction Thermal Plasma. <i>ACS Nano</i> , 2018, 12, 884-893.	7.3	66
10	Cu ²⁺ -labeled, SPION loaded porous silica nanoparticles for cell labeling and multifunctional imaging probes. <i>Biomaterials</i> , 2010, 31, 2866-2873.	5.7	59
11	Scalable manufacturing of boron nitride nanotubes and their assemblies: a review. <i>Semiconductor Science and Technology</i> , 2017, 32, 013003.	1.0	59
12	Processing and properties of PEEK/glass fiber laminates: Effect of addition of single-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1267-1279.	3.8	50
13	3D chemically cross-linked single-walled carbon nanotube buckypapers. <i>RSC Advances</i> , 2014, 4, 57564-57573.	1.7	43
14	Scalable Gas-Phase Purification of Boron Nitride Nanotubes by Selective Chlorine Etching. <i>Chemistry of Materials</i> , 2020, 32, 3911-3921.	3.2	38
15	Polymer nanocomposites from free-standing, macroscopic boron nitride nanotube assemblies. <i>RSC Advances</i> , 2015, 5, 41186-41192.	1.7	37
16	Thermal conductivity of bulk boron nitride nanotube sheets and their epoxy-impregnated composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2237-2242.	0.8	35
17	Enhanced Thermal Conductivity in Polymer Nanocomposites via Covalent Functionalization of Boron Nitride Nanotubes with Short Polyethylene Chains for Heat-Transfer Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 440-451.	2.4	35
18	Self-Assembly and Visualization of Poly(3-hexyl-thiophene) Chain Alignment along Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26605-26610.	1.5	31

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19	Boron Nitride Nanotube Composites and Applications. , 2019, , 91-111.		29
20	Nanoreinforced epoxy and adhesive joints incorporating boron nitride nanotubes. International Journal of Adhesion and Adhesives, 2018, 84, 194-201.	1.4	27
21	Multifunctional fiber reinforced polymer composites using carbon and boron nitride nanotubes. Acta Astronautica, 2017, 141, 57-63.	1.7	25
22	pH-Switchable Water-Soluble Boron Nitride Nanotubes. ChemistrySelect, 2018, 3, 9308-9312.	0.7	25
23	Assessing size-dependent cytotoxicity of boron nitride nanotubes using a novel cardiomyocyte AFM assay. Nanoscale Advances, 2019, 1, 1914-1923.	2.2	24
24	Enhanced Shear Performance of Hybrid Glass Fiber-Epoxy Laminates Modified with Boron Nitride Nanotubes. ACS Applied Nano Materials, 2018, 1, 2709-2717.	2.4	20
25	Epoxy resin nanocomposites with hydroxyl (OH) and amino (NH ₂) functionalized boron nitride nanotubes. Nanocomposites, 2018, 4, 10-17.	2.2	20
26	Quality Assessment of Bulk Boron Nitride Nanotubes for Advancing Research, Commercial, and Industrial Applications. ACS Applied Nano Materials, 2019, 2, 2054-2063.	2.4	19
27	Reinforcement of Polymer-Based Nanocomposites by Thermally Conductive and Electrically Insulating Boron Nitride Nanotubes. ACS Applied Nano Materials, 2020, 3, 364-374.	2.4	18
28	About the solubility of reduced SWCNT in DMSO. Nanotechnology, 2009, 20, 245701.	1.3	16
29	Coupled thermogravimetry, mass spectrometry, and infrared spectroscopy for quantification of surface functionality on single-walled carbon nanotubes. Analytical and Bioanalytical Chemistry, 2010, 396, 1037-1044.	1.9	16
30	Covalent derivatization of boron nitride nanotubes with peroxides and their application in polycarbonate composites. New Journal of Chemistry, 2017, 41, 7571-7577.	1.4	16
31	Dynamic mechanical characterization of boron nitride nanotube-epoxy nanocomposites. Polymer Composites, 2019, 40, 2119-2131.	2.3	13
32	In-Flight Plasma Functionalization of Boron Nitride Nanotubes with Ammonia for Composite Applications. ACS Applied Nano Materials, 2020, 3, 294-302.	2.4	12
33	Assessment of boron nitride nanotube materials using X-ray photoelectron spectroscopy. Canadian Journal of Chemistry, 2019, 97, 457-464.	0.6	11
34	Boron nitride nanotubes reinforced polycarbonate nanocomposites. Materials Today Communications, 2019, 20, 100586.	0.9	10
35	Conformational Order in Aggregated P3HT as an Indicator of Quality of Boron Nitride Nanotubes. Journal of Physical Chemistry Letters, 2020, 11, 4179-4185.	2.1	6
36	Glass Fiber-Epoxy Composites with Boron Nitride Nanotubes for Enhancing Interlaminar Properties in Structures. ACS Omega, 2022, 7, 10674-10686.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Stretchable Structure for a Benchtop-Scale Morphed Leading Edge Demonstration. , 2019, , .		5
38	Carbon Nanotube Fabric-Based Composites for Development of Multifunctional Structures. MRS Advances, 2019, 4, 3123-3132.	0.5	3
39	Boron Nitride Nanotubes for Optical Fiber Chemical Sensing Applications. , 2020, 4, 1-4.		3