Evaldo JosÃ© Corat

List of Publications by Year
in descending order

205 papers	4,674 citations	109264 35 h-index	138417 58 g-index
205 all docs	205 docs citations	205 times ranked	5089 citing authors

#	Article	IF	Citations
1	Comparative study of first- and second-order Raman spectra of MWCNT at visible and infrared laser excitation. Carbon, 2006, 44, 2202-2211.	5.4	408
2	Influence of diameter in the Raman spectra of aligned multi-walled carbon nanotubes. Carbon, 2007, 45, 913-921.	5.4	204
3	Porous Boron-Doped Diamond/Carbon Nanotube Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 990-995.	4.0	134
4	Evaluation of residual iron in carbon nanotubes purified by acid treatments. Applied Surface Science, 2011, 258, 641-648.	3.1	133
5	Adhesion studies of diamond-like carbon films deposited on Ti6Al4V substrate with a silicon interlayer. Thin Solid Films, 2006, 515, 375-379.	0.8	118
6	Antibacterial activity of DLC films containing TiO2 nanoparticles. Journal of Colloid and Interface Science, 2009, 340, 87-92.	5.0	104
7	Antibacterial activity of DLC and Agâ€“DLC films produced by PECVD technique. Diamond and Related Materials, 2009, 18, 1010-1014.	1.8	104
8	Residual stresses and crystalline quality of heavily boron-doped diamond films analysed by micro-Raman spectroscopy and X-ray diffraction. Carbon, 2003, 41, 1301-1308.	5.4	92
9	Fast functionalization of vertically aligned multiwalled carbon nanotubes using oxygen plasma. Materials Letters, 2012, 70, 89-93.	1.3	87
10	Electrochemical behaviour of vertically aligned carbon nanotubes and graphene oxide nanocomposite as electrode material. Electrochimica Acta, 2014, 119, 114-119.	2.6	79
11	Temperature dependence of species concentrations near the substrate during diamond chemical vapor deposition. Journal of Applied Physics, 1993, 74, 2021-2029.	1.1	76
12	Kinetics study of diamond electrodes at different levels of boron doping as quasi-reversible systems. Diamond and Related Materials, 2002, 11, 1523-1531.	1.8	74
13	Field Emission from Hybrid Diamond-like Carbon and Carbon Nanotube Composite Structures. ACS Applied Materials & Interfaces, 2013, 5, 12238-12243.	4.0	69
14	Analysis of residual stress in diamond films by x-ray diffraction and micro-Raman spectroscopy. Journal of Applied Physics, 2002, 91, 2466-2472.	1.1	67
15	Adherent amorphous hydrogenated carbon films on metals deposited by plasma enhanced chemical vapor deposition. Thin Solid Films, 2008, 516, 4011-4017.	0.8	65
16	Cell viability and adhesion on as grown multi-wall carbon nanotube films. Materials Science and Engineering C, 2008, 28, 264-269.	3.8	59
17	An evaluation of cell proliferation and adhesion on vertically-aligned multi-walled carbon nanotube films. Carbon, 2010, 48, 245-254.	5.4	59
18	Analyses of residual iron in carbon nanotubes produced by camphor/ferrocene pyrolysis and purified by high temperature annealing. Applied Surface Science, 2011, 257, 8038-8043.	3.1	57

#	Article	IF	Citations
19	Influence of substrate temperature on formation of ultrananocrystalline diamond films deposited by HFCVD argon-rich gas mixture. Diamond and Related Materials, 2009, 18, 1283-1288.	1.8	56
20	Fast Preparation of Hydroxyapatite/Superhydrophilic Vertically Aligned Multiwalled Carbon Nanotube Composites for Bioactive Application. Langmuir, 2010, 26, 18308-18314.	1.6	53
21	Wettability control on vertically-aligned multi-walled carbon nanotube surfaces with oxygen pulsed DC plasma and CO2 laser treatments. Diamond and Related Materials, 2010, 19, 752-755.	1.8	52
22	Graphene and carbon nanotube nanocomposite for gene transfection. Materials Science and Engineering C, 2014, 39, 288-298.	3.8	51
23	Graphene sheets produced by carbon nanotubes unzipping and their performance as supercapacitor. Applied Surface Science, 2018, 446, 201-208.	3.1	49
24	Cure study of epoxy resin reinforced with multiwalled carbon nanotubes by Raman and luminescence spectroscopy. Journal of Applied Polymer Science, 2013, 127, 544-553.	1.3	47
25	Dispersion liquid properties for efficient seeding in CVD diamond nucleation enhancement. Diamond and Related Materials, 1996, 5, 1323-1332.	1.8	46
26	Improvement of DLC electrochemical corrosion resistance by addiction of fluorine. Diamond and Related Materials, 2010, 19, 537-540.	1.8	46
27	Growth of carbon nanotube forests on carbon fibers with an amorphous silicon interface. Carbon, 2010, 48, 3655-3658.	5.4	45
28	A comparison of DLC film properties obtained by r.f. PACVD, IBAD, and enhanced pulsed-DC PACVD. Surface and Coatings Technology, 2007, 202, 549-554.	2.2	44
29	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. Materials Research Bulletin, 2014, 49, 487-493.	2.7	42
30	Electrochemical Performance of Porous Diamond-like Carbon Electrodes for Sensing Hormones, Neurotransmitters, and Endocrine Disruptors. ACS Applied Materials & Interfaces, 2014, 6, 21086-21092.	4.0	42
31	DLC film properties obtained by a low cost and modified pulsed-DC discharge. Thin Solid Films, 2007, 516, 272-276.	0.8	41
32	Interlayers Applied to CVD Diamond Deposition on Steel Substrate: A Review. Coatings, 2017, 7, 141.	1.2	39
33	Wettability and antibacterial activity of modified diamond-like carbon films. Applied Surface Science, 2009, 255, 8377-8382.	3.1	38
34	Antibacterial activity of fluorinated diamond-like carbon films produced by PECVD. Surface and Coatings Technology, 2010, 204, 2986-2990.	2.2	38
35	Effect of ultrasound irradiation on the production of nHAp/MWCNT nanocomposites. Materials Science and Engineering C, 2013, 33, 4305-4312.	3.8	38
36	Differential pulse adsorptive stripping voltammetric determination of nanomolar levels of atorvastatin calcium in pharmaceutical and biological samples using a vertically aligned carbon nanotube/graphene oxide electrode. Analyst, The, 2014, 139, 2832.	1.7	37

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37	Morphological studies of laser etching processes in self sustained CVD diamond wafers. Applied Surface Science, 1994, 79-80, 129-135.	3.1	33
38	Investigation into the antibacterial property and bacterial adhesion of diamond-like carbon films. Vacuum, 2011, 85, 662-666.	1.6	33
39	Biocompatibility of multi-walled carbon nanotubes grown on titanium and silicon surfaces. Materials Science and Engineering C, 2008, 28, 532-538.	3.8	32
40	Diamond-like-carbon and molybdenum disulfide nanotribology studies using atomic force measurements. Diamond and Related Materials, 2001, 10, 1049-1052.	1.8	31
41	Electrochemical activity of boron-doped diamond electrodes grown on carbon fiber cloths. Diamond and Related Materials, 2002, 11, 657-661.	1.8	31
42	DLC cold welding prevention films on a Ti6Al4V alloy for space applications. Surface and Coatings Technology, 2006, 200, 2587-2593.	2.2	30
43	Electrochemical determination of rosuvastatin calcium in pharmaceutical and human body fluid samples using a composite of vertically aligned carbon nanotubes and graphene oxide as the electrode material. Sensors and Actuators B: Chemical, 2015, 218, 51-59.	4.0	30
44	Henry's Law as a Limit for an Isotherm Model Based on a Statistical Mechanics Approach. Journal of Colloid and Interface Science, 1998, 208, 211-215.	5.0	28
45	Biomineralization of Superhydrophilic Vertically Aligned Carbon Nanotubes. Langmuir, 2012, 28, 4413-4424.	1.6	28
46	Stress study of HFCVD boron-doped diamond films by X-ray diffraction measurements. Diamond and Related Materials, 2001, 10, 750-754.	1.8	27
47	Wettability and corrosion tests of diamond films grown on Ti6Al4V alloy. Surface and Coatings Technology, 2005, 194, 271-275.	2.2	27
48	Characterization and tribologic study in high vacuum of hydrogenated DLC films deposited using pulsed DC PECVD system for space applications. Surface and Coatings Technology, 2017, 332, 135-141.	2.2	27
49	Columnar CVD diamond growth structure on irregular surface substrates. Diamond and Related Materials, 1995, 4, 1255-1259.	1.8	26
50	Laser cladding of SiC multilayers for diamond deposition on steel substrates. Diamond and Related Materials, 2016, 65, 105-114.	1.8	26
51	Efficiency study of perforated diamond electrodes for organic compounds oxidation process. Diamond and Related Materials, 2003, 12, 577-582.	1.8	25
52	Promising electrochemical performance of high-surface-area boron-doped diamond/carbon nanotube electroanalytical sensors. Journal of Solid State Electrochemistry, 2016, 20, 2403-2409.	1.2	25
53	Cutting characteristics of dental diamond burs made with CVD technology. Brazilian Oral Research, 2006, 20, 155-161.	0.6	24
54	Increasing mouse embryonic fibroblast cells adhesion on superhydrophilic vertically aligned carbon nanotube films. Materials Science and Engineering C, 2011, 31, 1505-1511.	3.8	24

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55	Electrochemical characterization on semiconductors p-type CVD diamond electrodes. Brazilian Journal of Physics, 1999, 29, 760-763.	0.7	23
56	Rapid Obtaining of Nano-Hydroxyapatite Bioactive Films on NiTi Shape Memory Alloy by Electrodeposition Process. Journal of Materials Engineering and Performance, 2011, 20, 793-797.	1.2	23
57	Deposition of amorphous hydrogenated carbon films on steel surfaces through the enhanced asymmetrical modified bipolar pulsed-DC PECVD method. Surface and Coatings Technology, 2014, 260, 133-138.	2.2	23
58	Cytocompatibility studies of vertically-aligned multi-walled carbon nanotubes: Raw material and functionalized by oxygen plasma. Materials Science and Engineering C, 2012, 32, 648-652.	3.8	22
59	An evaluation of chondrocyte morphology and gene expression on superhydrophilic vertically-aligned multi-walled carbon nanotube films. Materials Science and Engineering C, 2013, 33, 641-647.	3.8	22
60	Effect of Multi-Walled Carbon Nanotubes Incorporation on the Structure, Optical and Electrochemical Properties of Diamond-Like Carbon Thin Films. Journal of the Electrochemical Society, 2014, 161, H290-H295.	1.3	22
61	Freestanding Aligned Multi-walled Carbon Nanotubes for Supercapacitor Devices. Journal of Electronic Materials, 2016, 45, 5781-5788.	1.0	22
62	Nano- and microcrystalline diamond deposition on pretreated WCâ€“Co substrates: structural properties and adhesion. Materials Research Express, 2016, 3, 025601.	0.8	22
63	The valuable role of renucleation rate in ultrananocrystalline diamond growth. Diamond and Related Materials, 2012, 23, 112-119.	1.8	21
64	Simultaneous Voltammetric Determination of Paracetamol, Codeine and Caffeine on Diamondâ€like Carbon Porous Electrodes. Electroanalysis, 2017, 29, 907-916.	1.5	21
65	Multi-layer structure for chemical vapor deposition diamond on electroplated diamond tools. Diamond and Related Materials, 2001, 10, 332-336.	1.8	20
66	Influence of polar groups on the wetting properties of vertically aligned multiwalled carbon nanotube surfaces. Theoretical Chemistry Accounts, 2011, 130, 1061-1069.	0.5	20
67	Graphene and carbon nanotube composite enabling a new prospective treatment for trichomoniasis disease. Materials Science and Engineering C, 2014, 41, 65-69.	3.8	20
68	Analysis of cellular adhesion on superhydrophobic and superhydrophilic vertically aligned carbon nanotube scaffolds. Materials Science and Engineering C, 2015, 48, 365-371.	3.8	20
69	Graphene oxide/multi-walled carbon nanotubes as nanofeatured scaffolds for the assisted deposition of nanohydroxyapatite: characterization and biological evaluation. International Journal of Nanomedicine, 2016, 11, 2569.	3.3	20
70	Deposition of Hard and Adherent Diamond-Like Carbon Films Inside Steel Tubes Using a Pulsed-DC Discharge. Journal of Nanoscience and Nanotechnology, 2009, 9, 3891-3897.	0.9	19
71	Diamond-like carbon films produced from high deposition rates exhibit antibacterial activity. Synthetic Metals, 2009, 159, 2167-2169.	2.1	19
72	Total re-establishment of superhydrophobicity of vertically-aligned carbon nanotubes by Co2 laser treatment. Surface and Coatings Technology, 2010, 204, 3073-3077.	2.2	19

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73	Development of nanocrystalline diamond windows for application in synchrotron beamlines. Vacuum, 2013, 89, 21-25.	1.6	19
74	High surface area diamond-like carbon electrodes grown on vertically aligned carbon nanotubes. Carbon, 2015, 82, 288-296.	5.4	19
75	Freundlich's Isotherm Extended by Statistical Mechanics. Journal of Colloid and Interface Science, 1997, 185, 493-496.	5.0	18
76	Cylindrical CVD diamond as a high-performance small abrading device. Surface and Coatings Technology, 1998, 108-109, 437-441.	2.2	18
77	CO2 laser treatment for stabilization of the superhydrophobicity of carbon nanotube surfaces. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1153-1157.	0.6	18
78	Thermodiffused vanadium carbide interface for diamond films on steel and cemented carbides substrates. Surface Engineering, 2010, 26, 506-510.	1.1	18
79	In vitro and in vivo studies of a novel nanohydroxyapatite/superhydrophilic vertically aligned carbon nanotube nanocomposites. Journal of Materials Science: Materials in Medicine, 2013, 24, 1723-1732.	1.7	18
80	Water vapor condensation and collection by super-hydrophilic and super-hydrophobic VACNTs. Diamond and Related Materials, 2018, 87, 43-49.	1.8	18
81	An efficient highâ€repetitionâ€rate fastâ€pulsed gas valve. Review of Scientific Instruments, 1990, 61, 1068-1071.	0.6	17
82	Very lowâ€roughness diamond film deposition using a surfaceâ€waveâ€sustained plasma. Journal of Applied Physics, 1996, 80, 6013-6020.	1.1	17
83	Synchrotron radiation X-ray analysis of boron-doped diamond films grown by hot-filament assisted chemical vapor deposition. Diamond and Related Materials, 2002, 11, 153-159.	1.8	17
84	Diamond Chemical Vapor Deposition: Emerging Technology for Tooling Applications. Key Engineering Materials, 1998, 138-140, 195-244.	0.4	16
85	Use of near atmospheric pressure and low pressure techniques to modification DLC film surface. Surface and Coatings Technology, 2009, 204, 64-68.	2.2	16
86	Thermal Annealing and Electrochemical Purification of Multi-Walled Carbon Nanotubes Produced by Camphor/Ferrocene Mixtures. Journal of Nanoscience and Nanotechnology, 2010, 10, 1296-1303.	0.9	16
87	An evaluation of the tribological characteristics of DLC films grown on Inconel Alloy 718 using the Active Screen Plasma technique in a Pulsed-DC PECVD system. Surface and Coatings Technology, 2015, 284, 235-239.	2.2	16
88	Functionalized-Carbon Nanotubes with Physisorbed Ionic Liquid as Filler for Epoxy Nanocomposites. Journal of Nanoscience and Nanotechnology, 2016, 16, 9132-9140.	0.9	16
89	Porous boron-doped diamond/CNT electrode as electrochemical sensor for flow-injection analysis applications. Diamond and Related Materials, 2017, 74, 182-190.	1.8	16
90	Diamond growth with CF4 addition inhot-filament chemical vapour deposition. Journal of Materials Science, 1997, 32, 941-947.	1.7	15

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91	Characterization of crystalline diamond incorporated diamond-like carbon films. Diamond and Related Materials, 2010, 19, 1139-1143.	1.8	15
92	Tribological effect of iron oxide residual on the DLC film surface under seawater and saline solutions. Surface Science, 2011, 605, 783-787.	0.8	15
93	A novel method to mitigate residual stress in CVD diamond film on steel substrates with a single intermediate layer. Surface and Coatings Technology, 2019, 357, 93-102.	2.2	15
94	Friction coefficient measurements By LFM on DLC films as function of sputtering deposition parameters. Diamond and Related Materials, 2002, 11, 1135-1138.	1.8	14
95	Raman and infrared spectroscopy studies of carbon nitride films prepared on Si (100) substrates by ion beam assisted deposition. Journal of the Brazilian Chemical Society, 2006, 17, 1163-1169.	0.6	14
96	Tribological and mechanical properties of DLC film obtained on metal surface by an enhanced and low-cost pulsed-DC discharge. International Journal of Surface Science and Engineering, 2007, 1, 417.	0.4	14
97	CVD diamond burrs â€" Development and applications. Diamond and Related Materials, 1996, 5, 857-860.	1.8	13
98	Crystalline diamond particles into diamond-like carbon films: The influence of the particle sizes on the electrochemical corrosion resistance. Surface and Coatings Technology, 2010, 204, 2600-2604.	2.2	13
99	Proposed model for growth preference of plate-like nanohydroxyapatite crystals on superhydrophilic vertically aligned carbon nanotubes by electrodeposition. Theoretical Chemistry Accounts, 2011, 130, 1071-1082.	0.5	13
100	Process and characterization of reclaimed carbon fiber composites by pyrolysis and oxidation, assisted by thermal plasma to avoid pollutants emissions. Journal of Composite Materials, 2018, 52, 1379-1398.	1.2	13
101	Low temperature chemical vapour deposition of diamond on tungsten carbides using CF4 gas doping for machine tool applications. Vacuum, 1995, 46, 5-8.	1.6	12
102	The activation energy for diamond growth from mixtures in a hot-filament reactor. Diamond and Related Materials, 1997, 6, 1172-1181.	1.8	12
103	Very adherent CVD diamond film on modified molybdenum surface. Diamond and Related Materials, 2002, 11, 532-535.	1.8	12
104	Comparative study of the tribological behavior under hybrid lubrication of diamond-like carbon films with different adhesion interfaces. Applied Surface Science, 2013, 285, 645-648.	3.1	12
105	Oxygen Plasma Exfoliated Vertically-Aligned Carbon Nanotubes as Electrodes for Ultrasensitive Stripping Detection of Pb2+. Journal of the Electrochemical Society, 2014, 161, H321-H325.	1.3	12
106	DLC Films Grown On Steel Using An Innovator Active Screen System For PECVD Technique. Materials Research, 2016, 19, 882-888.	0.6	12
107	Determination of tadalafil in pharmaceutical samples by vertically oriented multi-walled carbon nanotube electrochemical sensing device. Journal of Electroanalytical Chemistry, 2020, 877, 114501.	1.9	12
108	Mass spectrometry and diamond growth from gas mixtures. Diamond and Related Materials, 1997, 6, 490-493.	1.8	11

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109	Surface modification on 304 SS by plasma-immersed ion implantation to improve the adherence of a CVD diamond film. Surface and Coatings Technology, 1999, 112, 295-298.	2.2	11
110	Raman analyses of residual stress in diamond thin films grown on Ti6Al4V alloy. Materials Research, 2003, 6, 51-56.	0.6	11
111	Monolayer formation of human osteoblastic cells on vertically aligned multiwalled carbon nanotube scaffolds. Cell Biology International, 2010, 34, 393-398.	1.4	11
112	Tribological behavior under aggressive environment of diamond-like carbon films with incorporated nanocrystalline diamond particles. Surface and Coatings Technology, 2011, 206, 434-439.	2.2	11
113	Influence of crystalline diamond nanoparticles on diamond-like carbon friction behavior. Applied Surface Science, 2011, 257, 7387-7393.	3.1	11
114	Influence of Boriding Process in Adhesion of CVD Diamond Films on Tungsten Carbide Substrates. Materials Research, 2015, 18, 925-930.	0.6	11
115	Diamond and Carbon Nanotube Composites for Supercapacitor Devices. Journal of Electronic Materials, 2017, 46, 929-935.	1.0	11
116	Hot filament scaling-up for CVD diamond burr manufacturing. Surface and Coatings Technology, 1995, 76-77, 797-802.	2.2	10
117	Hot filament scaling-up for CVD diamond burr manufacturing. Surface and Coatings Technology, 1995, 76-77, 797-802.	2.2	10
118	Micro and nanocrystalline diamond formation on reticulated vitreous carbon substrate. Chemical Physics Letters, 2005, 414, 412-416.	1.2	10
119	CVD Diamond Films Growth on Silicon Nitride Inserts (Si₃N₄) with High Nucleation Density by Functionalization Seeding. Materials Science Forum, 0, 727-728, 1433-1438.	0.3	10
120	Methods to grow porous diamond film doped with boron and nitrogen by deposition on carbon nanotubes. Diamond and Related Materials, 2016, 65, 198-203.	1.8	10
121	Diamond Films on Stainless Steel Substrates with an Interlayer Applied by Laser Cladding. Materials Research, 2017, 20, 543-548.	0.6	10
122	Diamond Coating of Porous Silicon. Journal of Porous Materials, 2000, 7, 401-405.	1.3	9
123	Chemical vapor deposition diamond thin films growth on Ti6AL4V using the Surfatron system. Diamond and Related Materials, 2002, 11, 550-554.	1.8	9
124	Micro-Raman spectroscopy for stress analysis on large area diamond/Ti6Al4V electrodes. Diamond and Related Materials, 2004, 13, 526-532.	1.8	9
125	Improvement of diamond-like carbon electrochemical corrosion resistance by addition of nanocrystalline diamond. Journal of Colloid and Interface Science, 2010, 342, 636-637.	5.0	9
126	Growth and characterization of diamond micro and nano crystals obtained using different methane concentration in argon-rich gas mixture. Diamond and Related Materials, 2010, 19, 768-771.	1.8	9

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127	Thin-film nanocomposites of BDD/CNT deposited on carbon fiber. Diamond and Related Materials, 2017, 75, 116-122.	1.8	9
128	Evidence of enhanced atomic hydrogen production with halogens in diamond MWPACVD. Diamond and Related Materials, 1998, 7, 81-87.	1.8	8
129	OES study of the plasma during CVD diamond growth using CCl 4 /H 2 /O 2 mixtures. Diamond and Related Materials, 2000, 9, 368-372.	1.8	8
130	Boron doped diamond thin films on large area Ti6Al4V substrates for electrochemical application. Materials Research, 2003, 6, 57-61.	0.6	8
131	Adherent diamond-like carbon coatings on metals via PECVD and IBAD. Brazilian Journal of Physics, 2006, 36, 986-989.	0.7	8
132	Detection of N and B in doped diamond films by ERDA method and related electrochemical characteristics. Diamond and Related Materials, 2007, 16, 174-180.	1.8	8
133	The Activation Energy for Nanocrystalline Diamond Films Deposited from an Ar/H₂/CH₄ Hot-Filament Reactor. Journal of Nanoscience and Nanotechnology, 2009, 9, 3944-3948.	0.9	8
134	Efficient method to produce biomineralizated nanohydroxyapatite/vertically aligned multiwalled carbon nanotube scaffolds. Materials Letters, 2012, 79, 166-169.	1.3	8
135	Laser cladding of vanadium carbide interlayer for CVD diamond growth on steel substrate. Surface and Coatings Technology, 2021, 421, 127387.	2.2	8
136	Development of chemical vapor deposition diamond burrs using hot filament. Review of Scientific Instruments, 1996, 67, 1993-1995.	0.6	7
137	H actinometry with CF4 addition in microwave plasma-assisted chemical vapor deposition of diamond. Diamond and Related Materials, 1997, 6, 472-475.	1.8	7
138	Influence of catalyst particles on multi-walled carbon nanotubes morphology and structure. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 315-323.	1.0	7
139	Adherent HFCVD diamond on steels substrates using vanadium carbide intermediate layer. Diamond and Related Materials, 2018, 89, 218-226.	1.8	7
140	Development and study of low-cost VACNT/PDMS stretchable and resistive strain sensor. Sensors and Actuators A: Physical, 2020, 315, 112358.	2.0	7
141	Vertically aligned carbon nanotubes (VACNT) surfaces coated with polyethylene for enhanced dew harvesting. Diamond and Related Materials, 2020, 107, 107837.	1.8	7
142	Mitigating residual stress of high temperature CVD diamond films on vanadium carbide coated steel. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	7
143	Morphological and electrochemical properties of boron-doped diamond films on carbon cloths with enhanced surface area. Thin Solid Films, 2008, 516, 4934-4939.	0.8	6
144	Cytotoxicity analysis of vertically aligned multi-walled carbon nanotubes by colorimetric assays. Synthetic Metals, 2009, 159, 2165-2166.	2.1	6

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145	Activation energies for the growth of diamond films and the renucleation of diamond grains during film growth. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 031808.	0.6	6
146	Growth and characterization of multilayer hot-filament chemical vapor deposition diamond coatings on WCâ€“Co substrates. Surface Innovations, 2019, 7, 36-43.	1.4	6
147	CVD-diamond nanoparticle synthesis for DLC film application. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	6
148	Studies on CVD-diamond on Ti6Al4V alloy surface using hot filament assisted technique. Thin Solid Films, 1997, 308-309, 254-257.	0.8	5
149	Diamond seed consolidation onto untreated silicon substrate. Journal of Materials Science Letters, 1997, 16, 197-199.	0.5	5
150	Gas phase study with CF4 and CCl2F2 addition in microwave CVD diamond growth. Diamond and Related Materials, 1998, 7, 272-275.	1.8	5
151	Influence of CF4 addition for HFCVD diamond growth on silicon nitride substrates. Diamond and Related Materials, 2001, 10, 2002-2009.	1.8	5
152	Turning of CFRC Composites Using Si₃N₄ and Thin CVD Diamond Coated Si₃N₄ Tools. Materials Science Forum, 2004, 455-456, 609-613.	0.3	5
153	Morphological and electrochemical studies of spherical boron doped diamond electrodes. Thin Solid Films, 2006, 513, 364-368.	0.8	5
154	Combined effect of nitrogen doping and nanosteps on microcrystalline diamond films for improvement of field emission. Applied Surface Science, 2015, 334, 222-226.	3.1	5
155	Gain measurements in stimulated rotational Raman scattering in para hydrogen. Optics Letters, 1986, 11, 368.	1.7	4
156	The Influence of the Temperature on the Parameters of Extended Freundlich's Isotherm. Journal of Colloid and Interface Science, 1998, 200, 126-130.	5.0	4
157	Studies of molybdenum surface modification for growth of adherent CVD diamond film. Materials Research, 2003, 6, 305-309.	0.6	4
158	Confinement effect and spreading of water into microchannels fabricated on the VACNT surfaces. Diamond and Related Materials, 2011, 20, 931-936.	1.8	4
159	Tritrichomonas foetus adhere to superhydrophilic vertically aligned multi-walled carbon nanotube surface. Materials Science and Engineering C, 2011, 31, 1614-1617.	3.8	4
160	Adherence Analysis of DLC Films Grown on AISI M2 Steel Substrates as a Function of Silicon Interlayer Thickness. Materials Science Forum, 0, 802, 388-391.	0.3	4
161	Characterization of interlaminar shear properties of nanostructured unidirectional composites. Composite Interfaces, 2021, 28, 191-208.	1.3	4
162	Diamond growth by methane injection into hydrogen-oxygen flames. Diamond and Related Materials, 1993, 2, 169-173.	1.8	3

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163	Low Temperature Diamond Growth With CF4 Addition in A Hot Filament Reactor. Materials Research Society Symposia Proceedings, 1994, 349, 421.	0.1	3
164	Adherence Measurements of Nanodiamond Thin Films Grown on Ti6Al4V Alloy. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 753-757.	0.1	3
165	Vertically Aligned Carbon Nanotubes/Carbon Fiber Composites for Electrochemical Applications. Materials Science Forum, 2014, 802, 192-196.	0.3	3
166	Micro, Nano and Ultranano-Crystalline Diamond Deposition. Materials Science Forum, 2014, 802, 168-173.	0.3	3
167	Control of the Length and Density of Carbon Nanotubes Grown on Carbon Fiber for Composites Reinforcement. Materials Research Society Symposia Proceedings, 2015, 1752, 77-82.	0.1	3
168	Evaluation of the Adhesion of Ultrananocrystalline Diamond Coatings on WC-Co Substrates. Materials Today: Proceedings, 2017, 4, 11538-11543.	0.9	3
169	Fast carbon nanotube growth on carbon fiber keeping tensile strength. Composite Interfaces, 2021, 28, 859-878.	1.3	3
170	Preparation and electroanalytical applications of vertically aligned carbon nanotubes. SPR Electrochemistry, 2015, , 50-96.	0.7	3
171	Inhibition of formation of SF6molecular clusters in a free supersonic expansion. Journal of Applied Physics, 1988, 63, 5169-5171.	1.1	2
172	<title>Cutting and drilling of CVD diamond using a copper vapor laser</title>. , 1996, 2789, 345.		2
173	Annealing-induced enhancement in the activation energy of heavily boron-doped polycrystalline diamond. Diamond and Related Materials, 1998, 7, 1259-1262.	1.8	2
174	Crescimento de diamante dopado com Boro para eletrodos de uso em eletroquÃmica. Materials Research, 1999, 2, 99-103.	0.6	2
175	A comparative study of diamond growth on tungsten wires by using methane and graphite as the carbon source. Surface and Coatings Technology, 2007, 201, 7382-7386.	2.2	2
176	Two-step growth of HFCVD diamond films over large areas. Vacuum, 2009, 83, 1054-1056.	1.6	2
177	Growth of Carbon Nanotube Forests on Carbon Fibers with a SiO₂ Interlayer. Materials Research Society Symposia Proceedings, 2012, 1451, 97-102.	0.1	2
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