Evaldo Jos Corat

List of Publications by Citations

200 papers	4,057 citations	32 h-index	53 g-index
205 ext. papers	4,325 ext. citations	3.7 avg, IF	5.2 L-index

#	Paper	IF	Citations
200	Comparative study of first- and second-order Raman spectra of MWCNT at visible and infrared laser excitation. *Carbon*, **2006**, 44, 2202-2211	10.4	373
199	Influence of diameter in the Raman spectra of aligned multi-walled carbon nanotubes. *Carbon*, **2007**, 45, 913-921	10.4	183
198	Porous boron-doped diamond/carbon nanotube electrodes. *ACS Applied Materials & Interfaces*, **2014**, 6, 990-5	9.5	117
197	Evaluation of residual iron in carbon nanotubes purified by acid treatments. *Applied Surface Science*, **2011**, 258, 641-648	6.7	115
196	Adhesion studies of diamond-like carbon films deposited on Ti6Al4V substrate with a silicon interlayer. *Thin Solid Films*, **2006**, 515, 375-379	2.2	111
195	Antibacterial activity of DLC and Ag□DLC films produced by PECVD technique. *Diamond and Related Materials*, **2009**, 18, 1010-1014	3.5	95
194	Antibacterial activity of DLC films containing TiO2 nanoparticles. *Journal of Colloid and Interface Science*, **2009**, 340, 87-92	9.3	82
193	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	10.4	78
192	Fast functionalization of vertically aligned multiwalled carbon nanotubes using oxygen plasma. *Materials Letters*, **2012**, 70, 89-93	3.3	72
191	Temperature dependence of species concentrations near the substrate during diamond chemical vapor deposition. *Journal of Applied Physics*, **1993**, 74, 2021-2029	2.5	69
190	Kinetics study of diamond electrodes at different levels of boron doping as quasi-reversible systems. *Diamond and Related Materials*, **2002**, 11, 1523-1531	3.5	68
189	Electrochemical behaviour of vertically aligned carbon nanotubes and graphene oxide nanocomposite as electrode material. *Electrochimica Acta*, **2014**, 119, 114-119	6.7	66
188	Field emission from hybrid diamond-like carbon and carbon nanotube composite structures. *ACS Applied Materials & Interfaces*, **2013**, 5, 12238-43	9.5	65
187	Analysis of residual stress in diamond films by x-ray diffraction and micro-Raman spectroscopy. *Journal of Applied Physics*, **2002**, 91, 2466-2472	2.5	60
186	Adherent amorphous hydrogenated carbon films on metals deposited by plasma enhanced chemical vapor deposition. *Thin Solid Films*, **2008**, 516, 4011-4017	2.2	59
185	An evaluation of cell proliferation and adhesion on vertically-aligned multi-walled carbon nanotube films. *Carbon*, **2010**, 48, 245-254	10.4	54
184	Cell viability and adhesion on as grown multi-wall carbon nanotube films. *Materials Science and Engineering C*, **2008**, 28, 264-269	8.3	51

183	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	6.7	49
182	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	3.5	49
181	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	3.5	47
180	Graphene and carbon nanotube nanocomposite for gene transfection. *Materials Science and Engineering C*, **2014**, 39, 288-98	8.3	46
179	Fast preparation of hydroxyapatite/superhydrophilic vertically aligned multiwalled carbon nanotube composites for bioactive application. *Langmuir*, **2010**, 26, 18308-14	4	46
178	Dispersion liquid properties for efficient seeding in CVD diamond nucleation enhancement. *Diamond and Related Materials*, **1996**, 5, 1323-1332	3.5	44
177	Growth of carbon nanotube forests on carbon fibers with an amorphous silicon interface. *Carbon*, **2010**, 48, 3655-3658	10.4	43
176	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. *Materials Research Bulletin*, **2014**, 49, 487-493	5.1	41
175	Improvement of DLC electrochemical corrosion resistance by addiction of fluorine. *Diamond and Related Materials*, **2010**, 19, 537-540	3.5	39
174	DLC film properties obtained by a low cost and modified pulsed-DC discharge. *Thin Solid Films*, **2007** , 516, 272-276	2.2	39
173	Effect of ultrasound irradiation on the production of nHAp/MWCNT nanocomposites. *Materials Science and Engineering C*, **2013**, 33, 4305-12	8.3	37
172	Antibacterial activity of fluorinated diamond-like carbon films produced by PECVD. *Surface and Coatings Technology*, **2010**, 204, 2986-2990	4.4	37
171	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	4.4	37
170	Wettability and antibacterial activity of modified diamond-like carbon films. *Applied Surface Science*, **2009**, 255, 8377-8382	6.7	36
169	Cure study of epoxy resin reinforced with multiwalled carbon nanotubes by Raman and luminescence spectroscopy. *Journal of Applied Polymer Science*, **2013**, 127, 544-553	2.9	35
168	Electrochemical performance of porous diamond-like carbon electrodes for sensing hormones, neurotransmitters, and endocrine disruptors. *ACS Applied Materials & Interfaces*, **2014**, 6, 21086-92	9.5	32
167	Graphene sheets produced by carbon nanotubes unzipping and their performance as supercapacitor. *Applied Surface Science*, **2018**, 446, 201-208	6.7	31
166	Morphological studies of laser etching processes in self sustained CVD diamond wafers. *Applied Surface Science*, **1994**, 79-80, 129-135	6.7	31

165	Diamond-like-carbon and molybdenum disulfide nanotribology studies using atomic force measurements. *Diamond and Related Materials*, **2001**, 10, 1049-1052	3.5	29
164	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, 2832-41	5	28
163	Interlayers Applied to CVD Diamond Deposition on Steel Substrate: A Review. *Coatings*, **2017**, 7, 141	2.9	28
162	Biomineralization of superhydrophilic vertically aligned carbon nanotubes. *Langmuir*, **2012**, 28, 4413-24	4	28
161	Biocompatibility of multi-walled carbon nanotubes grown on titanium and silicon surfaces. *Materials Science and Engineering C*, **2008**, 28, 532-538	8.3	28
160	Electrochemical activity of boron-doped diamond electrodes grown on carbon fiber cloths. *Diamond and Related Materials*, **2002**, 11, 657-661	3.5	28
159	Investigation into the antibacterial property and bacterial adhesion of diamond-like carbon films. *Vacuum*, **2011**, 85, 662-666	3.7	27
158	Promising electrochemical performance of high-surface-area boron-doped diamond/carbon nanotube electroanalytical sensors. *Journal of Solid State Electrochemistry*, **2016**, 20, 2403-2409	2.6	25
157	Efficiency study of perforated diamond electrodes for organic compounds oxidation process. *Diamond and Related Materials*, **2003**, 12, 577-582	3.5	25
156	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	8.5	24
155	Stress study of HFCVD boron-doped diamond films by X-ray diffraction measurements. *Diamond and Related Materials*, **2001**, 10, 750-754	3.5	24
154	Columnar CVD diamond growth structure on irregular surface substrates. *Diamond and Related Materials*, **1995**, 4, 1255-1259	3.5	24
153	DLC cold welding prevention films on a Ti6Al4V alloy for space applications. *Surface and Coatings Technology*, **2006**, 200, 2587-2593	4.4	23
152	Wettability and corrosion tests of diamond films grown on Ti6Al4V alloy. *Surface and Coatings Technology*, **2005**, 194, 271-275	4.4	23
151	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	3.9	22
150	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	1.6	22
149	Henryís Law as a Limit for an Isotherm Model Based on a Statistical Mechanics Approach. *Journal of Colloid and Interface Science*, **1998**, 208, 211-215	9.3	22
148	Increasing mouse embryonic fibroblast cells adhesion on superhydrophilic vertically aligned carbon nanotube films. *Materials Science and Engineering C*, **2011**, 31, 1505-1511	8.3	21

147	Electrochemical characterization on semiconductors p-type CVD diamond electrodes. *Brazilian Journal of Physics*, **1999**, 29, 760-763	1.2	21
146	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	4.4	20
145	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	8.3	20
144	Laser cladding of SiC multilayers for diamond deposition on steel substrates. *Diamond and Related Materials*, **2016**, 65, 105-114	3.5	19
143	Cutting characteristics of dental diamond burs made with CVD technology. *Brazilian Oral Research*, **2006**, 20, 155-61	2.6	19
142	Multi-layer structure for chemical vapor deposition diamond on electroplated diamond tools. *Diamond and Related Materials*, **2001**, 10, 332-336	3.5	19
141	Analysis of cellular adhesion on superhydrophobic and superhydrophilic vertically aligned carbon nanotube scaffolds. *Materials Science and Engineering C*, **2015**, 48, 365-71	8.3	18
140	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, 1723-32	4.5	18
139	Deposition of hard and adherent diamond-like carbon films inside steel tubes using a pulsed-DC discharge. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 3891-7	1.3	18
138	Total re-establishment of superhydrophobicity of vertically-aligned carbon nanotubes by Co2 laser treatment. *Surface and Coatings Technology*, **2010**, 204, 3073-3077	4.4	18
137	Freestanding Aligned Multi-walled Carbon Nanotubes for Supercapacitor Devices. *Journal of Electronic Materials*, **2016**, 45, 5781-5788	1.9	18
136	Graphene and carbon nanotube composite enabling a new prospective treatment for trichomoniasis disease. *Materials Science and Engineering C*, **2014**, 41, 65-9	8.3	17
135	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	4.4	17
134	The valuable role of renucleation rate in ultrananocrystalline diamond growth. *Diamond and Related Materials*, **2012**, 23, 112-119	3.5	17
133	An evaluation of chondrocyte morphology and gene expression on superhydrophilic vertically-aligned multi-walled carbon nanotube films. *Materials Science and Engineering C*, **2013**, 33, 641-7	8.3	17
132	Diamond-like carbon films produced from high deposition rates exhibit antibacterial activity. *Synthetic Metals*, **2009**, 159, 2167-2169	3.6	17
131	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	3.5	17
130	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, 2569-85	7.3	17

129	Development of nanocrystalline diamond windows for application in synchrotron beamlines. *Vacuum*, **2013**, 89, 21-25	3.7	16
128	Influence of polar groups on the wetting properties of vertically aligned multiwalled carbon nanotube surfaces. *Theoretical Chemistry Accounts*, **2011**, 130, 1061-1069	1.9	16
127	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	1.3	16
126	Freundlich's Isotherm Extended by Statistical Mechanics. *Journal of Colloid and Interface Science*, **1997**, 185, 493-6	9.3	16
125	High surface area diamond-like carbon electrodes grown on vertically aligned carbon nanotubes. *Carbon*, **2015**, 82, 288-296	10.4	15
124	Simultaneous Voltammetric Determination of Paracetamol, Codeine and Caffeine on Diamond-like Carbon Porous Electrodes. *Electroanalysis*, **2017**, 29, 907-916	3	15
123	Thermodiffused vanadium carbide interface for diamond films on steel and cemented carbides substrates. *Surface Engineering*, **2010**, 26, 506-510	2.6	15
122	Cylindrical CVD diamond as a high-performance small abrading device. *Surface and Coatings Technology*, **1998**, 108-109, 437-441	4.4	15
121	Very low-roughness diamond film deposition using a surface-wave- sustained plasma. *Journal of Applied Physics*, **1996**, 80, 6013-6020	2.5	15
120	An efficient high-repetition-rate fast-pulsed gas valve. *Review of Scientific Instruments*, **1990**, 61, 1068-1071	1.7	15
119	Porous boron-doped diamond/CNT electrode as electrochemical sensor for flow-injection analysis applications. *Diamond and Related Materials*, **2017**, 74, 182-190	3.5	14
118	Nano- and microcrystalline diamond deposition on pretreated WC-Co substrates: structural properties and adhesion. *Materials Research Express*, **2016**, 3, 025601	1.7	14
117	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	1	14
116	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	1.5	14
115	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	1.9	13
114	Thermal annealing and electrochemical purification of multi-walled carbon nanotubes produced by camphor/ferrocene mixtures. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1296-303	1.3	13
113	Use of near atmospheric pressure and low pressure techniques to modification DLC film surface. *Surface and Coatings Technology*, **2009**, 204, 64-68	4.4	13
112	Tribological effect of iron oxide residual on the DLC film surface under seawater and saline solutions. *Surface Science*, **2011**, 605, 783-787	1.8	13

111	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	4.4	13
110	Diamond growth with CF4 addition inhot-filament chemical vapour deposition. *Journal of Materials Science*, **1997**, 32, 941-947	4.3	13
109	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	4.4	12
108	Oxygen Plasma Exfoliated Vertically-Aligned Carbon Nanotubes as Electrodes for Ultrasensitive Stripping Detection of Pb2+. *Journal of the Electrochemical Society*, **2014**, 161, H321-H325	3.9	12
107	Characterization of crystalline diamond incorporated diamond-like carbon films. *Diamond and Related Materials*, **2010**, 19, 1139-1143	3.5	12
106	Diamond Chemical Vapor Deposition: Emerging Technology for Tooling Applications. *Key Engineering Materials*, **1997**, 138-140, 195-244	0.4	12
105	Friction coefficient measurements By LFM on DLC films as function of sputtering deposition parameters. *Diamond and Related Materials*, **2002**, 11, 1135-1138	3.5	12
104	CVD diamond burrs Development and applications. *Diamond and Related Materials*, **1996**, 5, 857-860	3.5	12
103	Water vapor condensation and collection by super-hydrophilic and super-hydrophobic VACNTs. *Diamond and Related Materials*, **2018**, 87, 43-49	3.5	12
102	Diamond and Carbon Nanotube Composites for Supercapacitor Devices. *Journal of Electronic Materials*, **2017**, 46, 929-935	1.9	11
101	Mass spectrometry and diamond growth from gas mixtures. *Diamond and Related Materials*, **1997**, 6, 490-493	3.5	11
100	Low temperature chemical vapour deposition of diamond on tungsten carbides using CF4 gas doping for machine tool applications. *Vacuum*, **1995**, 46, 5-8	3.7	11
99	Functionalized-Carbon Nanotubes with Physisorbed Ionic Liquid as Filler for Epoxy Nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 9132-9140	1.3	11
98	Influence of Boriding Process in Adhesion of CVD Diamond Films on Tungsten Carbide Substrates. *Materials Research*, **2015**, 18, 925-930	1.5	10
97	Tribological behavior under aggressive environment of diamond-like carbon films with incorporated nanocrystalline diamond particles. *Surface and Coatings Technology*, **2011**, 206, 434-439	4.4	10
96	Influence of crystalline diamond nanoparticles on diamond-like carbon friction behavior. *Applied Surface Science*, **2011**, 257, 7387-7393	6.7	10
95	The activation energy for diamond growth from mixtures in a hot-filament reactor. *Diamond and Related Materials*, **1997**, 6, 1172-1181	3.5	10
94	Raman analyses of residual stress in diamond thin films grown on Ti6Al4V alloy. *Materials Research*, **2003**, 6, 51-56	1.5	10

93	Very adherent CVD diamond film on modified molybdenum surface. *Diamond and Related Materials*, **2002**, 11, 532-535	3.5	10
92	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	4.4	10
91	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	4.4	10
90	Monolayer formation of human osteoblastic cells on vertically aligned multiwalled carbon nanotube scaffolds. *Cell Biology International*, **2010**, 34, 393-8	4.5	9
89	CVD Diamond Films Growth on Silicon Nitride Inserts (Si3N4) with High Nucleation Density by Functionalization Seeding. *Materials Science Forum*, **2012**, 727-728, 1433-1438	0.4	9
88	Improvement of diamond-like carbon electrochemical corrosion resistance by addition of nanocrystalline diamond. *Journal of Colloid and Interface Science*, **2010**, 342, 636-7	9.3	9
87	Chemical vapor deposition diamond thin films growth on Ti6AL4V using the Surfatron system. *Diamond and Related Materials*, **2002**, 11, 550-554	3.5	9
86	DLC Films Grown On Steel Using An Innovator Active Screen System For PECVD Technique. *Materials Research*, **2016**, 19, 882-888	1.5	9
85	Thin-film nanocomposites of BDD/CNT deposited on carbon fiber. *Diamond and Related Materials*, **2017**, 75, 116-122	3.5	8
84	Diamond Films on Stainless Steel Substrates with an Interlayer Applied by Laser Cladding. *Materials Research*, **2017**, 20, 543-548	1.5	8
83	Efficient method to produce biomineralizated nanohydroxyapatite/vertically aligned multiwalled carbon nanotube scaffolds. *Materials Letters*, **2012**, 79, 166-169	3.3	8
82	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	6.7	8
81	The activation energy for nanocrystalline diamond films deposited from an Ar/H2/CH4 hot-filament reactor. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 3944-8	1.3	8
80	Micro and nanocrystalline diamond formation on reticulated vitreous carbon substrate. *Chemical Physics Letters*, **2005**, 414, 412-416	2.5	8
79	Diamond Coating of Porous Silicon. *Journal of Porous Materials*, **2000**, 7, 401-405	2.4	8
78	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	3.5	8
77	Hot filament scaling-up for CVD diamond burr manufacturing. *Surface and Coatings Technology*, **1995**, 76-77, 797-802	4.4	8
76	H actinometry with CF4 addition in microwave plasma-assisted chemical vapor deposition of diamond. *Diamond and Related Materials*, **1997**, 6, 472-475	3.5	7

75	Evidence of enhanced atomic hydrogen production with halogens in diamond MWPACVD. *Diamond and Related Materials*, **1998**, 7, 81-87	3.5	7
74	Adherent diamond-like carbon coatings on metals via PECVD and IBAD. *Brazilian Journal of Physics*, **2006**, 36, 986-989	1.2	7
73	Boron doped diamond thin films on large area Ti6Al4V substrates for electrochemical application. *Materials Research*, **2003**, 6, 57-61	1.5	7
72	Micro-Raman spectroscopy for stress analysis on large area diamond/Ti6Al4V electrodes. *Diamond and Related Materials*, **2004**, 13, 526-532	3.5	7
71	Development of chemical vapor deposition diamond burrs using hot filament. *Review of Scientific Instruments*, **1996**, 67, 1993-1995	1.7	7
70	Determination of tadalafil in pharmaceutical samples by vertically oriented multi-walled carbon nanotube electrochemical sensing device. *Journal of Electroanalytical Chemistry*, **2020**, 877, 114501	4.1	7
69	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	2.7	6
68	Cytotoxicity analysis of vertically aligned multi-walled carbon nanotubes by colorimetric assays. *Synthetic Metals*, **2009**, 159, 2165-2166	3.6	6
67	Detection of N and B in doped diamond films by ERDA method and related electrochemical characteristics. *Diamond and Related Materials*, **2007**, 16, 174-180	3.5	6
66	Morphological and electrochemical properties of boron-doped diamond films on carbon cloths with enhanced surface area. *Thin Solid Films*, **2008**, 516, 4934-4939	2.2	6
65	Hot filament scaling-up for CVD diamond burr manufacturing. *Surface and Coatings Technology*, **1995**, 76-77, 797-802	4.4	6
64	Methods to grow porous diamond film doped with boron and nitrogen by deposition on carbon nanotubes. *Diamond and Related Materials*, **2016**, 65, 198-203	3.5	6
63	Influence of catalyst particles on multi-walled carbon nanotubes morphology and structure. *Fullerenes Nanotubes and Carbon Nanostructures*, **2018**, 26, 315-323	1.8	5
62	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	1.3	5
61	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	3.5	5
60	Diamond seed consolidation onto untreated silicon substrate. *Journal of Materials Science Letters*, **1997**, 16, 197-199		5
59	Gas phase study with CF4 and CCl2F2 addition in microwave CVD diamond growth. *Diamond and Related Materials*, **1998**, 7, 272-275	3.5	5
58	Morphological and electrochemical studies of spherical boron doped diamond electrodes. *Thin Solid Films*, **2006**, 513, 364-368	2.2	5

57	Turning of CFRC Composites Using Si3N4 and Thin CVD Diamond Coated Si3N4 Tools. *Materials Science Forum*, **2004**, 455-456, 609-613	0.4	5
56	Adherent HFCVD diamond on steels substrates using vanadium carbide intermediate layer. *Diamond and Related Materials*, **2018**, 89, 218-226	3.5	5
55	Growth and characterization of multilayer hot-filament chemical vapor deposition diamond coatings on WC-Co substrates. *Surface Innovations*, **2019**, 7, 36-43	1.9	4
54	Confinement effect and spreading of water into microchannels fabricated on the VACNT surfaces. *Diamond and Related Materials*, **2011**, 20, 931-936	3.5	4
53	Tritrichomonas foetus adhere to superhydrophilic vertically aligned multi-walled carbon nanotube surface. *Materials Science and Engineering C*, **2011**, 31, 1614-1617	8.3	4
52	Studies on CVD-diamond on Ti6Al4V alloy surface using hot filament assisted technique. *Thin Solid Films*, **1997**, 308-309, 254-257	2.2	4
51	The Influence of the Temperature on the Parameters of Extended Freundlich Isotherm. *Journal of Colloid and Interface Science*, **1998**, 200, 126-130	9.3	4
50	Studies of molybdenum surface modification for growth of adherent CVD diamond film. *Materials Research*, **2003**, 6, 305-309	1.5	4
49	Influence of CF4 addition for HFCVD diamond growth on silicon nitride substrates. *Diamond and Related Materials*, **2001**, 10, 2002-2009	3.5	4
48	Gain measurements in stimulated rotational Raman scattering in para hydrogen. *Optics Letters*, **1986**, 11, 368-70	3	4
47	Development and study of low-cost VACNT/PDMS stretchable and resistive strain sensor. *Sensors and Actuators A: Physical*, **2020**, 315, 112358	3.9	4
46	CVD-diamond nanoparticle synthesis for DLC film application. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	4
45	Laser cladding of vanadium carbide interlayer for CVD diamond growth on steel substrate. *Surface and Coatings Technology*, **2021**, 421, 127387	4.4	4
44	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		3
43	Vertically aligned carbon nanotubes (VACNT) surfaces coated with polyethylene for enhanced dew harvesting. *Diamond and Related Materials*, **2020**, 107, 107837	3.5	3
42	Evaluation of the Adhesion of Ultrananocrystalline Diamond Coatings on WC-Co Substrates. *Materials Today: Proceedings*, **2017**, 4, 11538-11543	1.4	3
41	Combined effect of nitrogen doping and nanosteps on microcrystalline diamond films for improvement of field emission. *Applied Surface Science*, **2015**, 334, 222-226	6.7	3
40	Vertically Aligned Carbon Nanotubes/Carbon Fiber Composites for Electrochemical Applications. *Materials Science Forum*, **2014**, 802, 192-196	0.4	3

39	Adherence Analysis of DLC Films Grown on AISI M2 Steel Substrates as a Function of Silicon Interlayer Thickness. *Materials Science Forum*, **2014**, 802, 388-391	0.4	3
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37	Diamond growth by methane injection into hydrogen-oxygen flames. *Diamond and Related Materials*, **1993**, 2, 169-173	3.5	3
36	Low Temperature Diamond Growth With CF4 Addition in a Hot Filament Reactor. *Materials Research Society Symposia Proceedings*, **1994**, 349, 421		3
35	Preparation and electroanalytical applications of vertically aligned carbon nanotubes. *SPR Electrochemistry*, **2015**, 50-96		3
34	Synthesis of Vanadium Interface for HFCVD Diamond Deposition on Steel Surface. *Materials Research*, **2017**, 20, 248-253	1.5	2
33	Growth of Carbon Nanotube Forests on Carbon Fibers with a SiO2 Interlayer. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 97-102		2
32	Two-step growth of HFCVD diamond films over large areas. *Vacuum*, **2009**, 83, 1054-1056	3.7	2
31	Annealing-induced enhancement in the activation energy of heavily boron-doped polycrystalline diamond. *Diamond and Related Materials*, **1998**, 7, 1259-1262	3.5	2
30	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	4.4	2
29	Adherence Measurements of Nanodiamond Thin Films Grown on Ti6Al4V Alloy. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 753-757	0.2	2
28	Crescimento de diamante dopado com Boro para eletrodos de uso em eletroquímica. *Materials Research*, **1999**, 2, 99-103	1.5	2
27	Cutting and drilling of CVD diamond using a copper vapor laser **1996**, 2789, 345		2
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25	Taxa de crescimento de filmes de diamante CVD em superfícies de molibdênio. *Revista Escola De Minas*, **2007**, 60, 227-231		2
24	Characterization of interlaminar shear properties of nanostructured unidirectional composites. *Composite Interfaces*, **2021**, 28, 191-208	2.3	2
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