

# Antnio J S Fernandes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146  
papers

2,724  
citations

30  
h-index

39  
g-index

152  
ext. papers

3,169  
ext. citations

4.5  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
146	Conversion of paper and xylan into laser-induced graphene for environmentally friendly sensors. <i>Diamond and Related Materials</i> , <b>2022</b> , 123, 108855	3.5	3
145	Cobalt Phosphotungstate-Based Composites as Bifunctional Electro-catalysts for Oxygen Reactions. <i>Catalysts</i> , <b>2022</b> , 12, 357	4	1
144	Boron Doped Diamond for Real-Time Wireless Cutting Temperature Monitoring of Diamond Coated Carbide Tools. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
143	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2021</b> , 1-48	10.1	17
142	IR and UV Laser-Induced Graphene: Application as Dopamine Electrochemical Sensors. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100007	6.8	14
141	Dual Transduction of H <sub>2</sub> O <sub>2</sub> Detection Using ZnO/Laser-Induced Graphene Composites. <i>Chemosensors</i> , <b>2021</b> , 9, 102	4	4
140	Electrochemical Response of Glucose Oxidase Adsorbed on Laser-Induced Graphene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
139	A Review on the Applications of Graphene in Mechanical Transduction. <i>Advanced Materials</i> , <b>2021</b> , e2101326	3.6	9
138	Photonic smart bandage for wound healing assessment. <i>Photonics Research</i> , <b>2021</b> , 9, 272	6	32
137	Laser-Induced Graphene from Paper for Mechanical Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10210-10221	9.5	36
136	Electrochemical and photoluminescence response of laser-induced graphene/electrodeposited ZnO composites. <i>Scientific Reports</i> , <b>2021</b> , 11, 17154	4.9	3
135	Decorating MOF-74-derived nanocarbons with a sandwich-type polyoxometalate to enhance their OER activity: Exploring the underestimated bulk-deposition approach. <i>Electrochimica Acta</i> , <b>2021</b> , 389, 138719	6.7	7
134	Laser-Induced Graphene Piezoresistive Sensors Synthesized Directly on Cork Insoles for Gait Analysis. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000630	6.8	24
133	Laser-Induced Hematite/Magnetite Phase Transformation. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 7187-7193	3.1	1
132	Identification of microplastics in white wines capped with polyethylene stoppers using micro-Raman spectroscopy. <i>Food Chemistry</i> , <b>2020</b> , 331, 127323	8.5	39
131	Nd:YAG laser scribed zinc oxide on semi-flexible copper foils. <i>Materials Letters: X</i> , <b>2020</b> , 5, 100038	0.5	
130	Millimeter-sized few-layer suspended graphene membranes. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100879	6.6	6

129	Millimeter sized graphene domains through in situ oxidation/reduction treatment of the copper substrate. <i>Carbon</i> , <b>2020</b> , 169, 403-415	10.4	7
128	Perfluorinated fiber material properties following femtosecond laser inscription. <i>Optical Materials</i> , <b>2020</b> , 109, 110412	3.3	3
127	Physical Structure and Electrochemical Response of Diamond-Graphite Nanoplatelets: From CVD Synthesis to Label-Free Biosensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8470-8482	9.5	10
126	A review on the laser-assisted flow deposition method: growth of ZnO micro and nanostructures. <i>CrystEngComm</i> , <b>2019</b> , 21, 1071-1090	3.3	21
125	ZnO decorated laser-induced graphene produced by direct laser scribing. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3252-3268	5.1	17
124	Towards efficient oxygen reduction reaction electrocatalysts through graphene doping. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 72-81	6.7	20
123	Thermoelectric performance of Nb-doped SrTiO <sub>3</sub> enhanced by reduced graphene oxide and Sr deficiency cooperation. <i>Carbon</i> , <b>2019</b> , 143, 215-222	10.4	42
122	Polyoxometalate-graphene Electrocatalysts for the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 273-283	4.3	36
121	(Lu <sub>0.3</sub> Gd <sub>0.7</sub> ) <sub>2</sub> SiO <sub>5</sub> :Y <sup>3+</sup> single crystals grown by the laser floating zone method: structural and optical studies. <i>CrystEngComm</i> , <b>2018</b> , 20, 7386-7394	3.3	6
120	Laser-Induced Graphene Strain Sensors Produced by Ultraviolet Irradiation of Polyimide. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805271	15.6	125
119	Tuning the surface chemistry of graphene flakes: new strategies for selective oxidation. <i>RSC Advances</i> , <b>2017</b> , 7, 14290-14301	3.7	51
118	Diamond-Graphite Nanoplatelet Surfaces as Conductive Substrates for the Electrical Stimulation of Cell Functions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1331-1342	9.5	13
117	Direct Synthesis of Electrowettable Carbon Nanowall/Diamond Hybrid Materials from Sacrificial Ceramic Templates Using HFCVD. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700019	4.6	14
116	Biphasic apatite-carbon materials derived from pyrolysed fish bones for effective adsorption of persistent pollutants and heavy metals. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 4884-4894	6.8	30
115	Structural and optical characterization of Gd <sub>2</sub> SiO <sub>5</sub> crystalline fibres obtained by laser floating zone. <i>Optical Materials Express</i> , <b>2017</b> , 7, 868	2.6	13
114	Surface modifications on as-grown boron doped CVD diamond films induced by the B <sub>2</sub> O <sub>3</sub> /ethanol/H <sub>2</sub> system. <i>Diamond and Related Materials</i> , <b>2016</b> , 64, 89-96	3.5	9
113	Simultaneous CVD synthesis of graphene-diamond hybrid films. <i>Carbon</i> , <b>2016</b> , 98, 99-105	10.4	16
112	Vertically aligned N-doped CNTs growth using Taguchi experimental design. <i>Applied Surface Science</i> , <b>2015</b> , 344, 57-64	6.7	10

111	Diels-Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. <i>Nanoscale</i> , <b>2015</b> , 7, 9238-51	7.7	23
110	High rate growth of nanocrystalline diamond films using high microwave power and pure nitrogen/methane/hydrogen plasma. <i>Vacuum</i> , <b>2015</b> , 122, 342-346	3.7	13
109	Heat Dissipation Interfaces Based on Vertically Aligned Diamond/Graphite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24772-7	9.5	13
108	Defect luminescence in oxides nanocrystals grown by laser assisted techniques <b>2015</b> ,		2
107	All-Diamond Microelectrodes as Solid State Probes for Localized Electrochemical Sensing. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6487-92	7.8	6
106	Very Large Superconducting Currents Induced by Growth Tailoring. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 2094-2101	3.5	50
105	Pressure effects on the dissipative behavior of nanocrystalline diamond microelectromechanical resonators. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 025019	2	2
104	Directional solidification of ZrO <sub>2</sub> BaZrO <sub>3</sub> composites with mixed protonic oxide ionic conductivity. <i>Solid State Ionics</i> , <b>2014</b> , 262, 654-658	3.3	3
103	New fluorinated diamond microelectrodes for localized detection of dissolved oxygen. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 204, 544-551	8.5	15
102	Processing strategies for smart electroconductive carbon nanotube-based bioceramic bone grafts. <i>Nanotechnology</i> , <b>2014</b> , 25, 145602	3.4	6
101	ZnO micro/nanocrystals grown by laser assisted flow deposition <b>2014</b> ,		1
100	Role of high microwave power on growth and microstructure of thick nanocrystalline diamond films: A comparison with large grain polycrystalline diamond films. <i>Journal of Crystal Growth</i> , <b>2014</b> , 389, 83-91	1.6	9
99	Directionally solidified eutectic and off-eutectic mullite/zirconia fibres. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 953-963	6	14
98	Mechanical performance upgrading of CVD diamond using the multilayer strategy. <i>Surface and Coatings Technology</i> , <b>2013</b> , 236, 380-387	4.4	23
97	Potentiometric chemical sensors from lignin-poly(propylene oxide) copolymers doped by carbon nanotubes. <i>Analyst, The</i> , <b>2013</b> , 138, 501-8	5	23
96	Prospects on laser processed wide band gap oxides optical materials <b>2013</b> ,		1
95	Towards the understanding of the intentionally induced yellow luminescence in GaN nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 667-672		8
94	Laser Melting Processing of ZrO <sub>2</sub> BaZrO <sub>3</sub> Ceramic Eutectics. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 1847-1856	2.3	3

93	Red light from ZrO <sub>2</sub> :Eu <sup>3+</sup> nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2012</b> , 177, 712-716	3.1	34
92	Diamond/WC bilayer formation mechanism by hot-filament CVD. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 3055-3063	4.4	6
91	Composition profiles and adhesion evaluation of conductive diamond coatings on dielectric ceramics. <i>Thin Solid Films</i> , <b>2012</b> , 520, 5260-5266	2.2	6
90	A DLC/diamond bilayer approach for reducing the initial friction towards a high bearing capacity. <i>Wear</i> , <b>2012</b> , 290-291, 18-24	3.5	8
89	ZnO nanostructures grown on vertically aligned carbon nanotubes by laser-assisted flow deposition. <i>Acta Materialia</i> , <b>2012</b> , 60, 5143-5150	8.4	24
88	Optical properties of LFZ grown Ga <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> fibres. <i>Applied Surface Science</i> , <b>2012</b> , 258, 9157-9161	6.7	19
87	Effect of urea on cellulose degradation under conditions of alkaline pulping. <i>Cellulose</i> , <b>2012</b> , 19, 2195-2204	3.4	12
86	Simultaneous formation of nanocrystalline and textured and {111} facet dominated microcrystalline diamond films using CH <sub>4</sub> /H <sub>2</sub> /O <sub>2</sub> plasma. <i>Diamond and Related Materials</i> , <b>2012</b> , 24, 93-98	3.5	2
85	Upscaling potential of the CVD stacking growth method to produce dimensionally-controlled and catalyst-free multi-walled carbon nanotubes. <i>Carbon</i> , <b>2012</b> , 50, 3585-3606	10.4	14
84	Discriminating the brightness stability of cellulosic pulp in relation to the final bleaching stage. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 726-733	10.3	3
83	ZnO Nano/Microstructures Grown by Laser Assisted Flow Deposition. <i>Journal of Nano Research</i> , <b>2012</b> , 18-19, 129-137	1	10
82	Quantification of Microstructural Features in Carbon Nanotube/Nanodiamond Hybrids. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 85-86	0.5	
81	ZnGa <sub>2</sub> O <sub>4</sub> :Mn <sup>2+</sup> Phosphors Grown by Laser Floating Zone. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 105-106	0.5	
80	Laser Assisted Flow Deposition: a New Method to Grow ZnO. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 87-88	0.5	2
79	Electrical Polarization Effect on Bi <sub>2</sub> Ca <sub>2</sub> Co <sub>1.7</sub> O <sub>x</sub> thermoelectrics grown by laser floating zone. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 93-94	0.5	5
78	Microstructure of Mullite-zirconia Fibres Grown by Directional Solidification. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 103-104	0.5	
77	A new regime for high rate growth of nanocrystalline diamond films using high power and CH <sub>4</sub> /H <sub>2</sub> /N <sub>2</sub> /O <sub>2</sub> plasma. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 304-309	3.5	14
76	Deposition of alpha-WC/a-C nanocomposite thin films by hot-filament CVD. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 103-106	4.4	7

75	Red and infrared luminescence from tetragonal YSZ:Pr <sup>3+</sup> single crystal fibres grown by LFZ. <i>Optical Materials</i> , <b>2011</b> , 34, 27-29	3.3	10
74	Bright room-temperature green luminescence from YSZ:Tb <sup>3+</sup> . <i>Materials Letters</i> , <b>2011</b> , 65, 1979-1981	3.3	20
73	Nanocrystalline CVD diamond coatings for drilling of WC-Co parts. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2011</b> , 29, 618-622	4.1	19
72	Colossal dielectric constant of poly- and single-crystalline CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> fibres grown by the laser floating zone technique. <i>Acta Materialia</i> , <b>2011</b> , 59, 102-111	8.4	22
71	UV-resonance Raman micro-spectroscopy to assess residual chromophores in cellulosic pulps. <i>Journal of Raman Spectroscopy</i> , <b>2011</b> , 42, 1039-1045	2.3	7
70	YSZ:Dy <sup>3+</sup> single crystal white emitter. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15262		41
69	Self-assembled cones of aligned carbon nanofibers grown on wet-etched Cu foils. <i>Carbon</i> , <b>2011</b> , 49, 2181-2196	12.1	12
68	Effect of processing method on physical properties of Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 501-506	6	49
67	HFCVD diamond deposition parameters optimized by a Taguchi Matrix. <i>Vacuum</i> , <b>2011</b> , 85, 701-704	3.7	24
66	Diamond film adhesion onto sub-micrometric WC <sub>60</sub> substrates. <i>Vacuum</i> , <b>2011</b> , 85, 1135-1139	3.7	12
65	Effect of microwave power and nitrogen addition on the formation of {100} faceted diamond from microcrystalline to nanocrystalline. <i>Vacuum</i> , <b>2011</b> , 85, 1130-1134	3.7	19
64	Structural and optical properties of europium doped zirconia single crystals fibers grown by laser floating zone. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 013516	2.5	31
63	Fast coating of ultramicroelectrodes with boron-doped nanocrystalline diamond. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1330-1335	3.5	7
62	Role of nitrogen additive and temperature on growth of diamond films from nanocrystalline to polycrystalline. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2722-30	1.3	5
61	Nanodiamond-based tribosystems. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 1962-1969	4.4	12
60	Single and polycrystalline mullite fibres grown by laser floating zone technique. <i>Journal of the European Ceramic Society</i> , <b>2010</b> , 30, 3311-3318	6	20
59	Wet-etched Ni foils as active catalysts towards carbon nanofiber growth. <i>Carbon</i> , <b>2010</b> , 48, 2839-2854	10.4	14
58	The assessment of chromophores in bleached cellulosic pulps employing UV-Raman spectroscopy. <i>Carbohydrate Research</i> , <b>2010</b> , 345, 1442-51	2.9	15

57	The role of surface activation prior to seeding on CVD diamond adhesion. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3585-3591	4.4	12
56	Formation of {100} facet-terminated nanocrystalline diamond by microwave plasma chemical vapor deposition: Edge effect. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2029-2034 <sup>1.6</sup>	1.6	4
55	From Micro to Nanometric Grain Size CVD Diamond Tools. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1243, 1		1
54	Surface activation pre-treatments for NCD films grown by HFCVD. <i>Vacuum</i> , <b>2009</b> , 83, 1228-1232	3.7	13
53	Semi-orthogonal turning of hardmetal with CVD diamond and PCD inserts at different cutting angles. <i>Vacuum</i> , <b>2009</b> , 83, 1218-1223	3.7	11
52	Synthesis and structural characterization of highly <100>-oriented {100}-faceted nanocrystalline diamond films by microwave plasma chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 2258-2264	1.6	9
51	Nano carbon hybrids from the simultaneous synthesis of CNT/NCD by MPCVD. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 160-163	3.5	11
50	CVD micro/nanocrystalline diamond (MCD/NCD) bilayer coated odontological drill bits. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 264-270	3.5	38
49	Adhesion and wear behaviour of NCD coatings on Si3N4 by micro-abrasion tests. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3938-43	1.3	10
48	Enhanced sealing performance with CVD nanocrystalline diamond films in self-mated mechanical seals. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1132-1136	3.5	29
47	Extrinsic stress induced defects in CVD diamond. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 190-193	3.5	11
46	Effect of nitrogen and oxygen addition on morphology and texture of diamond films (from polycrystalline to nanocrystalline). <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 72-78	3.5	41
45	Strain analysis of photocatalytic TiO2 thin films on polymer substrates. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1434-1438	1.3	21
44	A new chemical path for fabrication of nanocrystalline diamond films. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 261-265	1.6	17
43	Dry machining of silicon/aluminium alloys with CVD diamond brazed and directly coated Si3N4 ceramic tools. <i>Vacuum</i> , <b>2008</b> , 82, 1407-1410	3.7	22
42	PVD-Grown photocatalytic TiO2 thin films on PVDF substrates for sensors and actuators applications. <i>Thin Solid Films</i> , <b>2008</b> , 517, 1161-1166	2.2	41
41	CVD diamond water lubricated tribosystems for high load planar sliding. <i>Wear</i> , <b>2008</b> , 265, 1023-1028	3.5	20
40	Single-Pass and Multi-Pass Laser Cutting of SiBiC: Assessment of the Cut Quality and Microstructure in the Heat Affected Zone. <i>Journal of Laser Applications</i> , <b>2007</b> , 19, 170-176	2.1	7

39	Nano to micrometric HFCVD diamond adhesion strength to Si <sub>3</sub> N <sub>4</sub> . <i>Vacuum</i> , <b>2007</b> , 81, 1443-1447	3.7	47
38	A comparison study of hydrogen incorporation among nanocrystalline, microcrystalline and polycrystalline diamond films grown by chemical vapor deposition. <i>Thin Solid Films</i> , <b>2007</b> , 515, 3539-3546 <sup>2.2</sup>		34
37	Reactive sputtering deposition of photocatalytic TiO <sub>2</sub> thin films on glass substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2007</b> , 138, 139-143	3.1	63
36	Nano- and micro-crystalline diamond growth by MPCVD in extremely poor hydrogen uniform plasmas. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 757-761	3.5	28
35	The effect of oxygen and nitrogen additives on the growth of nanocrystalline diamond films. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 386236	1.8	4
34	Residual stress minimum in nanocrystalline diamond films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 093109	3.4	20
33	Friction and wear performance of HFCVD nanocrystalline diamond coated silicon nitride ceramics. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 739-744	3.5	60
32	Enhanced performance of HFCVD nanocrystalline diamond self-mated tribosystems by plasma pretreatments on silicon nitride substrates. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 2024-2028	3.5	29
31	Growth rate improvements in the hot-filament CVD deposition of nanocrystalline diamond. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1822-1827	3.5	48
30	Spatial characterization of fiber Bragg grating structures using transversal pressure. <i>Optics Communications</i> , <b>2006</b> , 259, 110-114	2	5
29	NCD by HFCVD on a Si <sub>3</sub> N <sub>4</sub> -bioglass composite for biomechanical applications. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 6409-6413	4.4	7
28	Re-sharpenable thick CVD diamond-coated Si <sub>3</sub> N <sub>4</sub> tools for hardmetal turning. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 1776-1782	4.4	12
27	CVD diamond coated silicon nitride self-mated systems: tribological behaviour under high loads. <i>Tribology Letters</i> , <b>2006</b> , 21, 141-151	2.8	41
26	Machining hardmetal with CVD diamond direct coated ceramic tools: effect of tool edge geometry. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 651-656	3.5	35
25	High performance sealing with CVD diamond self-mated rings. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 617-621	3.5	26
24	Deposition of nanocrystalline diamond films on silicon nitride ceramic substrates using pulsed microwave discharges in Ar/H <sub>2</sub> /CH <sub>4</sub> gas mixture. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 432-436	3.5	13
23	Grain size effect on self-mated CVD diamond dry tribosystems. <i>Wear</i> , <b>2005</b> , 259, 771-778	3.5	29
22	Unstressed PACVD diamond films on steel pre-coated with a composite multilayer. <i>Surface and Coatings Technology</i> , <b>2005</b> , 191, 102-107	4.4	11



21	Hot-filament chemical vapour deposition of nanodiamond on silicon nitride substrates. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 643-647	3.5	30
20	Cutting forces evolution with tool wear in sintered hardmetal turning with CVD diamond. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 843-847	3.5	23
19	A new interlayer approach for CVD diamond coating of steel substrates. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 828-833	3.5	36
18	Study the effect of O <sub>2</sub> addition on hydrogen incorporation in CVD diamond. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 203-208	3.5	18
17	Tailored Si <sub>3</sub> N <sub>4</sub> Ceramic Substrates for CVD Diamond Coating. <i>Surface Engineering</i> , <b>2003</b> , 19, 410-416	2.6	20
16	Tribological behaviour of CVD diamond films on steel substrates. <i>Wear</i> , <b>2003</b> , 255, 846-853	3.5	26
15	Surface Pretreatments of Silicon Nitride for CVD Diamond Deposition. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 749-754	3.8	20
14	Adhesion behaviour assessment on diamond coated silicon nitride by acoustic emission. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 733-737	3.5	46
13	Influence of nucleation density on film quality, growth rate and morphology of thick CVD diamond films. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1488-1494	3.5	36
12	A new elegant technique for polishing CVD diamond films. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1411-1416	3.5	34
11	Growth of high quality large grained diamond films on mirror-polished silicon without surface pretreatment. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 251-256	3.5	16
10	Wear resistant CVD diamond tools for turning of sintered hardmetals. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 738-743	3.5	35
9	Effect of intergranular phase of Si <sub>3</sub> N <sub>4</sub> substrates on MPCVD diamond deposition. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 521-525	4.4	4
8	Microwave plasma chemical vapour deposition diamond nucleation on ferrous substrates with Ti and Cr interlayers. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1617-1622	3.5	48
7	Influence of nucleation on hydrogen incorporation in CVD diamond films. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 527-531	3.5	19
6	Thermal conductivity enhancement in cutting tools by chemical vapor deposition diamond coating. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 703-707	3.5	22
5	Wettability studies of reactive brazing alloys on CVD diamond plates. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 775-780	3.5	25
4	MPCVD diamond tool cutting-edge coverage: dependence on the side wedge angle. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 803-808	3.5	19

3	Influence of SiC particle addition on the nucleation density and adhesion strength of MPCVD diamond coatings on Si <sub>3</sub> N <sub>4</sub> substrates. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 483-488	3.5	19
2	Adhesion of diamond coatings on steel and copper with a titanium interlayer. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 1549-1554	3.5	24
1	Laser-Induced Graphene from Paper by Ultraviolet Irradiation: Humidity and Temperature Sensors. <i>Advanced Materials Technologies</i> , 2101311	6.8	6