

# James Butler

## 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.

294  
papers

10,459  
citations

56  
h-index

92  
g-index

316  
ext. papers

11,016  
ext. citations

3.5  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
294	Analysis of doping anisotropy in multisectorial boron-doped HPHT diamonds. <i>Materials Today Communications</i> , <b>2020</b> , 24, 100995	2.5	4
293	The occupied electronic structure of ultrathin boron doped diamond. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1358-1364	1.364	1
292	Low temperature diamond growth arising from ultrafast pulsed-laser pretreatment. <i>Carbon</i> , <b>2018</b> , 131, 120-126	10.4	3
291	Investigation of boron incorporation in delta doped diamond layers by secondary ion mass spectrometry. <i>Thin Solid Films</i> , <b>2018</b> , 653, 215-222	2.2	12
290	Chameleon diamonds: Thermal processes governing luminescence and a model for the color change. <i>Diamond and Related Materials</i> , <b>2018</b> , 81, 45-53	3.5	2
289	Characterization of electronic properties of natural type IIb diamonds. <i>Diamond and Related Materials</i> , <b>2017</b> , 72, 87-93	3.5	3
288	Nanometric diamond delta doping with boron. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1600329	2.5	23
287	CVD diamond with boron-doped delta-layers deposited by microwave plasma. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 01010	0.3	
286	Dependence of boron incorporation in delta layers on CVD diamond growth process and misorientation angle. <i>EPJ Web of Conferences</i> , <b>2017</b> , 149, 02014	0.3	
285	(Invited) High Power Diamond Devices with 2-D Transport Channels. <i>ECS Transactions</i> , <b>2017</b> , 80, 197-201	1	
284	Thin film ferroelectric structures on diamond for high power microwave applications. <i>Diamond and Related Materials</i> , <b>2017</b> , 75, 176-180	3.5	3
283	Large-surface-area diamond (111) crystal plates for applications in high-heat-load wavefront-preserving X-ray crystal optics. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 1118-23	2.4	7
282	Characterization of delta-doped diamond samples with a planar capacitor. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 769, 012092	0.3	
281	Novel microwave plasma-assisted CVD reactor for diamond delta doping. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 324-327	2.5	39
280	Theoretical Model of the Stripline Measurement Cell for Doped Diamond Films. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 769, 012093	0.3	
279	Demonstration of a high repetition rate capillary discharge waveguide. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 033302	2.5	28
278	Single-crystal diamond refractive lens for focusing X-rays in two dimensions. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 163-8	2.4	16

277	Ferroelectric Varactor on Diamond for Elevated Power Microwave Applications. <i>IEEE Electron Device Letters</i> , <b>2016</b> , 1-1	4.4	2
276	A geometric model of growth for cubic crystals: Diamond. <i>Diamond and Related Materials</i> , <b>2015</b> , 53, 58-65	5.5	12
275	Study of the Blue Moon Diamond. <i>Gems &amp; Gemology</i> , <b>2015</b> , 50, 280-286	1.8	6
274	Experimental study of hydrogen plasma etching of (100) single crystal diamond in a MPACVD reactor. <i>Materials Letters</i> , <b>2015</b> , 151, 115-118	3.3	26
273	RF breakdown test of diamond-loaded resonator for high gradient wakefield accelerator applications. <i>Diamond and Related Materials</i> , <b>2015</b> , 54, 15-18	3.5	3
272	Temperature admittance spectroscopy of boron doped chemical vapor deposition diamond. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 145703	2.5	15
271	Microwave filter based on Lamb modes for optoelectronic generator. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 661, 012049	0.3	0
270	Homoepitaxial growth of CVD diamond after ICP pretreatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 2572-2577	1.6	25
269	UV Sensor Based on Layered Ferrite-Diamond Structure. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 661, 012060	0.3	
268	Thermal conductivity changes upon neutron transmutation of <sup>10</sup> B doped diamond. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 083706	2.5	1
267	Diamond Dielectrics for Advanced Wakefield Accelerators. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1549, 1		
266	Diamond Surfaces and Interfaces <b>2013</b> , 353-358		
265	. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 23-25	4.4	83
264	Boron in natural type IIb blue diamonds: Chemical and spectroscopic measurements. <i>American Mineralogist</i> , <b>2012</b> , 97, 1-18	2.9	35
263	Experimental demonstration of wakefield effects in a THz planar diamond accelerating structure. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 132910	3.4	36
262	Cathodoluminescence of natural, plastically deformed pink diamonds. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 1292-302	0.5	11
261	Fabrication and Characterization of Single-crystal CVD Diamond Current Amplifier. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1282, 129		
260	Contribution of steps to optical properties of vicinal diamond (100):H surfaces. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6

259	Secondary electron amplification using single-crystal CVD diamond film. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 798-802	3.5	14
258	Characterization of molecular and biomolecular layers on diamond thin films by infrared reflection-absorption spectroscopy. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 733-742	3.5	5
257	Laser annealing of neutron irradiated boron-10 isotope doped diamond. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 2518-2528	4.3	2
256	Ultrathin single crystal diamond nanomechanical dome resonators. <i>Nano Letters</i> , <b>2011</b> , 11, 4304-8	11.5	37
255	Surface functionalization of thin-film diamond for highly stable and selective biological interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 983-8	11.5	80
254	Dissipation in single crystal diamond micromechanical annular plate resonators. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 1204-1207	3.5	9
253	Note: Laser ablation technique for electrically contacting a buried implant layer in single crystal diamond. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 056105	1.7	4
252	Comparative Study of Ohmic Contact Metallizations to Nanocrystalline Diamond Films. <i>Materials Science Forum</i> , <b>2010</b> , 645-648, 733-735	0.4	4
251	Bunch characteristics of an electron beam generated by a diamond secondary emitter amplifier. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 044509	2.5	15
250	On the high curvature coefficient rectifying behavior of nanocrystalline diamond heterojunctions to 4H-SiC. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 193510	3.4	6
249	Spectroscopic and microscopic characterizations of color lamellae in natural pink diamonds. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1207-1220	3.5	56
248	Photochemical Grafting of Alkenes onto Carbon Surfaces: Identifying the Roles of Electrons and Holes. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4067-4074	3.8	34
247	11.6: Emission characterization of diamond current amplifier <b>2010</b> ,		2
246	Nanocrystalline diamond as an electronic material: An impedance spectroscopic and Hall effect measurement study. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 033716	2.5	21
245	Ultrananocrystalline and Nanocrystalline Diamond Thin Films for MEMS/NEMS Applications. <i>MRS Bulletin</i> , <b>2010</b> , 35, 281-288	3.2	107
244	The Wittelsbach-Graff and Hope Diamonds: Not Cut from the Same Rough. <i>Gems &amp; Gemology</i> , <b>2010</b> , 46, 80-89	1.8	10
243	Reflection anisotropy spectroscopy of the oxidized diamond (001) surface. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 364218	1.8	2
242	Detection of DNA hybridisation on a functionalised diamond surface using reflection anisotropy spectroscopy. <i>Europhysics Letters</i> , <b>2009</b> , 85, 18006	1.6	8

241	Understanding the chemical vapor deposition of diamond: recent progress. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 364201	1.8	122
240	Controlled synthesis of high quality micro/nano-diamonds by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 51-55	3.5	58
239	The structural and electrochemical properties of boron-doped nanocrystalline diamond thin-film electrodes grown from Ar-rich and H <sub>2</sub> -rich source gases. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 669-677	3.7	86
238	Recent Progress in the Understanding of CVD Growth of Diamond <b>2009</b> , 103-124		10
237	Using phosphorescence as a fingerprint for the Hope and other blue diamonds. <i>Geology</i> , <b>2008</b> , 36, 83	5	17
236	Reactive ion etching of waveguide structures in diamond. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1831-1834	3.5	32
235	CVD-diamond external cavity Raman laser at 573 nm. <i>Optics Express</i> , <b>2008</b> , 16, 18950-5	3.3	85
234	A mechanism for crystal twinning in the growth of diamond by chemical vapour deposition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2008</b> , 366, 295-311; discussion 311	3	80
233	Thermal quenching investigation in chemical vapor deposited diamond by simultaneous detection of thermally stimulated luminescence and conductivity. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 114908	2.5	11
232	The CVD of Nanodiamond Materials. <i>Chemical Vapor Deposition</i> , <b>2008</b> , 14, 145-160		272
231	Direct electrical detection of antigen-antibody binding on diamond and silicon substrates using electrical impedance spectroscopy. <i>Analyst, The</i> , <b>2007</b> , 132, 296-306	5	53
230	Observation of whispering gallery modes in nanocrystalline diamond microdisks. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 081110	3.4	59
229	Direct photopatterning and SEM imaging of molecular monolayers on diamond surfaces: mechanistic insights into UV-initiated molecular grafting. <i>Langmuir</i> , <b>2007</b> , 23, 11623-30	4	28
228	Covalent molecular functionalization of diamond thin-film transistors. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1608-1615	3.5	17
227	Characterization of B-doped polycrystalline diamond films using thermally stimulated luminescence. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 805-808	3.5	4
226	Neutron transmutation of <sup>10</sup> B doped diamond. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 50-62	3.5	7
225	Atomic layer deposition of ZnO thin films on boron-doped nanocrystalline diamond. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 983-986	3.5	17
224	Diamond synthesis using an oxygen-acetylene torch. <i>Materials Letters</i> , <b>2007</b> , 61, 2847-2850	3.3	2

223	Mössbauer study of <sup>57</sup> Fe in CVD diamond following <sup>57</sup> Mn implantation. <i>Hyperfine Interactions</i> , <b>2007</b> , 179, 17-22	0.8	3
222	Fabrication of suspended single crystal diamond devices by electrochemical etch. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 730		31
221	Optical absorption, depolarization, and scatter of epitaxial single-crystal chemical-vapor-deposited diamond at 1.064 $\mu$ m. <i>Optical Engineering</i> , <b>2007</b> , 46, 064002	1.1	24
220	Optical properties of epitaxial single-crystal chemical-vapor-deposited diamond <b>2007</b> ,		2
219	Nanocrystalline diamond films as UV-semitransparent Schottky contacts to 4H-SiC. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 163508	3.4	18
218	Fabrication and characterization of two-dimensional photonic crystal microcavities in nanocrystalline diamond. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 201112	3.4	124
217	Nanocrystalline Diamond as a Dielectric for SOD Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1039, 1		1
216	Role of TL thermal quenching in CVD diamond for medical applications. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1062-1065	3.5	7
215	Diamond merged diode. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1033-1037	3.5	22
214	ZNO-on-nanocrystalline diamond lateral bulk acoustic resonators <b>2007</b> ,		17
213	Surface composition, bonding, and morphology in the nucleation and growth of ultra-thin, high quality nanocrystalline diamond films. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 718-724	3.5	101
212	Fluorescence Spectra of Colored Diamonds Using A Rapid, Mobile Spectrometer. <i>Gems &amp; Gemology</i> , <b>2007</b> , 43, 332-351	1.8	16
211	Optical bleaching, TSL and OSL features of CVD diamond. <i>Radiation Protection Dosimetry</i> , <b>2006</b> , 119, 390-3	0.9	2
210	Lift -Off Process to get Free-Standing High Quality Single Crystal Diamond Films and Suspended Single Crystal Diamond Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 956, 1		3
209	The role of charge trapping at grain boundaries on charge transport in polycrystalline chemical vapor deposited diamond based detectors. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 113703	2.5	11
208	Thermoluminescence properties of CVD diamond for clinical dosimetry use. <i>Radiation Protection Dosimetry</i> , <b>2006</b> , 120, 87-90	0.9	13
207	Fabrication of short-wavelength photonic crystals in wide-band-gap nanocrystalline diamond films. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 50		25
206	Nanocrystalline diamond resonator array for RF signal processing. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 2061-2067	3.5	34

205	Electrical bias dependent photochemical functionalization of diamond surfaces. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16535-43	3.4	23
204	Semiconductor surface-induced 1,3-hydrogen shift: the role of covalent vs zwitterionic character. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11054-61	16.4	12
203	An investigation of structural and electrical properties of boron doped and undoped nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 3021-3027	1.6	10
202	The initial stages of graphite formation on the diamond (1 0 0) 2 × 1 surface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2006</b> , 152, 33-36	1.7	5
201	Role of film-substrate interface in the internal friction of nanocrystalline diamond films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 442, 332-335	5.3	0
200	Excitonic recombinations and energy levels of highly boron doped homoepitaxial diamond films before and after hydrogenation. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 350-354	3.5	6
199	Molecular and biomolecular monolayers on diamond as an interface to biology. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 661-668	3.5	84
198	Electrically Addressable Biomolecular Functionalization of Conductive Nanocrystalline Diamond Thin Films. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 938-940	9.6	68
197	Electrical properties of diamond surfaces functionalized with molecular monolayers. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 8523-32	3.4	59
196	Adsorption of acrylonitrile on diamond and silicon (001)-(2 × 1) surfaces: effects of dimer structure on reaction pathways and product distributions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8348-54	16.4	20
195	Photochemical functionalization of hydrogen-terminated diamond surfaces: a structural and mechanistic study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20938-47	3.4	119
194	2D photonic crystals fabricated in wide bandgap nanocrystalline diamond <b>2005</b> ,		2
193	Free-standing Diamond Single Crystal Film for Electronics Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 905, 1		1
192	Mercury detection at boron doped diamond electrodes using a rotating disk technique. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 577, 287-293	4.1	32
191	Direct evidence of interaction between dislocations and point defects in diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, R69-R71	1.6	5
190	New direct evidence of point defects interacting with dislocations and grain boundaries in diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 2943-2949	1.6	9
189	Some Recent Advances on the n-Type Doping of Diamond. <i>Solid State Phenomena</i> , <b>2005</b> , 108-109, 703-708		4
188	Charge trap levels in sulfur-doped chemical-vapor-deposited diamond with applications to ultraviolet dosimetry. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 023704	2.5	9

187	1/f noise in semiconducting and just-metallic boron-implanted diamond. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	7
186	Reflectance anisotropy spectra of the diamond (100)-(2x1) surface: evidence of strongly bound surface state excitons. <i>Physical Review Letters</i> , <b>2005</b> , 94, 087404	7.4	34
185	Effect of material properties on low-energy electron transmission in thin chemical-vapor deposited diamond films. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 093717	2.5	6
184	Low temperature internal friction in nanocrystalline diamond films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 081910	3.4	17
183	Dissipation in nanocrystalline-diamond nanomechanical resonators. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 972-974	3.4	79
182	Temperature-dependent emptying of grain-boundary charge traps in chemical vapor deposited diamond. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4493-4495	3.4	15
181	Electrical characterization of 10B doped diamond irradiated with low thermal neutron fluence. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1191-1194	2.9	4
180	High Quality MPCVD Epitaxial Diamond Film for Power Device Application. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 829, 29		6
179	HIGH-VOLTAGE DIAMOND SCHOTTKY RECTIFIERS. <i>International Journal of High Speed Electronics and Systems</i> , <b>2004</b> , 14, 872-878	0.5	14
178	Observation of Substitutional Fe in CEMS Measurements on Synthetic CVD Diamond. <i>Hyperfine Interactions</i> , <b>2004</b> , 156/157, 129-135	0.8	1
177	Characterization of nitrogen doped chemical vapor deposited single crystal diamond before and after high pressure, high temperature annealing. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 2473-2485		59
176	Shallow donor induced n-type conductivity in deuterated boron-doped diamond. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 2444-2450		18
175	Loss due to transverse thermoelastic currents in microscale resonators. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 370, 407-411	5.3	39
174	Optically switched conductivity of epitaxial diamond on nitrogen doped diamond substrates. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4620-4622	3.4	5
173	Interfacial electrical properties of DNA-modified diamond thin films: intrinsic response and hybridization-induced field effects. <i>Langmuir</i> , <b>2004</b> , 20, 6778-87	4	137
172	n-type diamond with high room temperature electrical conductivity by deuteration of boron doped diamond layers. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 700-704	3.5	19
171	Electron transport mechanisms in thin boron-doped diamond films. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 446-453	2.5	19
170	Conversion of p-type to n-type diamond by exposure to a deuterium plasma. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 7060-7065	2.5	23

169	Formation of deuterium-related shallow donors in boron-doped diamond. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 813, 821		1
168	Observation of Substitutional Fe in CEMS Measurements on Synthetic CVD Diamond <b>2004</b> , 129-135		
167	Measuring strain in polycrystalline CVD diamond films. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, A153-A156	2	
166	Observation of monolayer steps on {111}, $\sqrt{3}$ twin boundaries in chemically vapour-deposited polycrystalline diamond. <i>Philosophical Magazine Letters</i> , <b>2003</b> , 83, 297-302	1	1
165	Grain clusters and the geometrical origin of stress in CVD polycrystalline diamond. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 81, 281-285	4.4	9
164	Spectroelectrochemical responsiveness of a freestanding, boron-doped diamond, optically transparent electrode toward ferrocene. <i>Analytica Chimica Acta</i> , <b>2003</b> , 500, 137-144	6.6	29
163	Shallow donors with high n-type electrical conductivity in homoepitaxial deuterated boron-doped diamond layers. <i>Nature Materials</i> , <b>2003</b> , 2, 482-6	27	116
162	TL characterisation of a CVD diamond wafer for ionising radiation dosimetry. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1750-1754	3.5	26
161	Relationship between grain boundaries and broad luminescence peaks in CVD diamond films. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 310-317	3.5	14
160	Photoluminescence and positron annihilation measurements of nitrogen doped CVD diamond. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 652-657	3.5	19
159	DNA-Modified Diamond Surfaces. <i>Langmuir</i> , <b>2003</b> , 19, 1938-1942	4	130
158	Exceptionally high voltage Schottky diamond diodes and low boron doping. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, S67-S71	1.8	146
157	Long coherence times at 300 K for nitrogen-vacancy center spins in diamond grown by chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4190-4192	3.4	134
156	Real and apparent grain sizes in chemical vapor deposited diamond. <i>Materials Letters</i> , <b>2003</b> , 57, 3690-3693	3	8
155	Transmission of low-energy electrons in boron-doped nanocrystalline diamond films. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 3082-3089	2.5	22
154	Elastic, mechanical, and thermal properties of nanocrystalline diamond films. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 2164-2171	2.5	248
153	Mass spectrometry sampling method for characterizing high-density plasma etching mechanisms. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3626-3628	3.4	1
152	Optical centers introduced in boron-doped synthetic diamond by near-threshold electron irradiation. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3091-3100	2.5	7

151	Gem-Quality Synthetic Diamonds Grown by a Chemical Vapor Deposition (CVD) Method. <i>Gems &amp; Gemology</i> , <b>2003</b> , 39, 268-283	1.8	40
150	Chemical Vapor Deposited Diamond: Maturity and Diversity. <i>Electrochemical Society Interface</i> , <b>2003</b> , 12, 22-26	3.6	17
149	Electron transmission studies of diamond films. <i>Applied Surface Science</i> , <b>2002</b> , 191, 52-60	6.7	15
148	DNA-modified nanocrystalline diamond thin-films as stable, biologically active substrates. <i>Nature Materials</i> , <b>2002</b> , 1, 253-7	27	744
147	The Inverted p-Diamond/n-CdTe Heterojunction Solar Cell. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, G55	3.9	4
146	Transmission electron microscopy investigation of boron-doped polycrystalline chemically vapour-deposited diamond. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 1741-1768		4
145	Loss mechanisms in MEMS oscillators <b>2002</b> , 4827, 466		0
144	A Confocal Raman Imaging Study of an Optically Transparent Boron-Doped Diamond Electrode. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10816-10827	3.4	55
143	Nanomechanical resonant structures in nanocrystalline diamond. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4455-4457	3.4	157
142	Photochemical Functionalization of Diamond Films. <i>Langmuir</i> , <b>2002</b> , 18, 968-971	4	229
141	Characterisation of electron irradiated boron-doped diamond. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 681-685	3.5	9
140	Grain boundaries in boron-doped CVD diamond films. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 697-702	3.5	10
139	Photoluminescence studies of type IIa and nitrogen doped CVD diamond. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 692-696	3.5	19
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