Richard B Jackman

List of Publications by Year
in descending order

194	4,119	136950	168389
papers	citations	32 h-index	53 g-index

198	198	198	3133
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth, electronic properties and applications of nanodiamond. Diamond and Related Materials, 2008, 17, 1080-1088.	3.9	279
2	n-type conductivity in ultrananocrystalline diamond films. Applied Physics Letters, 2004, 85, 1680-1682.	3.3	152
3	Ordered growth of neurons on diamond. Biomaterials, 2004, 25, 4073-4078.	11.4	139
4	The use of nanodiamond monolayer coatings to promote the formation of functional neuronal networks. Biomaterials, 2010, 31, 2097-2104.	11.4	126
5	High carrier mobility in polycrystalline thin film diamond. Applied Physics Letters, 1998, 72, 353-355.	3.3	110
6	Polycrystalline diamond photoconductive device with high UVâ€visible discrimination. Applied Physics Letters, 1995, 67, 2117-2119.	3.3	102
7	Reaction mechanisms for the photon-enhanced etching of semiconductors: An investigation of the UV-stimulated interaction of chlorine with Si(100). Surface Science, 1986, 176, 183-192.	1.9	101
8	Diamond UV photodetectors: Sensitivity and speed for visible blind applications. Diamond and Related Materials, 1998, 7, 513-518.	3.9	83
9	Hydrogen-induced transport properties of holes in diamond surface layers. Applied Physics Letters, 2001, 79, 4541-4543.	3.3	77
10	Photoconductive properties of thin film diamond. Diamond and Related Materials, 1997, 6, 374-380.	3.9	69
11	An insight into the mechanism of surface conductivity in thin film diamond. Diamond and Related Materials, 1998, 7, 550-555.	3.9	66
12	Thin film diamond photodiode for ultraviolet light detection. Applied Physics Letters, 1996, 68, 290-292.	3.3	61
13	Cleaning thinâ€film diamond surfaces for device fabrication: An Auger electron spectroscopic study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2303-2307.	2.1	58
14	Spectroscopic impedance study of nanocrystalline diamond films. Journal of Applied Physics, 2003, 94, 7878.	2.5	58
15	Low temperature properties of the p-type surface conductivity of diamond. Diamond and Related Materials, 2002, 11, 351-354.	3.9	57
16	Surface conductivity on hydrogen terminated diamond. Semiconductor Science and Technology, 2003, 18, S34-S40.	2.0	55
17	Graphene-Nanodiamond Heterostructures and their application to High Current Devices. Scientific Reports, 2015, 5, 13771.	3.3	51
18	Semiconductor surface etching by halogens: Fundamental steps. Applied Surface Science, 1989, 36, 296-312.	6.1	50

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19	Surface functionalisation of nanodiamonds for human neural stem cell adhesion and proliferation. Scientific Reports, 2017, 7, 7307.	3.3	48
20	Influence of the environment on the surface conductivity of chemical vapor deposition diamond. Diamond and Related Materials, 2002, 11, 856-860.	3.9	47
21	Boronâ€Doped Nanocrystalline Diamond Microelectrode Arrays Monitor Cardiac Action Potentials. Advanced Healthcare Materials, 2014, 3, 283-289.	7.6	45
22	Diamond photodetectors for next generation 157-nm deep-UV photolithography tools. Diamond and Related Materials, 2001, 10, 693-697.	3.9	43
23	Development of chemical beam epitaxy for the deposition of gallium nitride. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 29, 78-82.	3.5	41
24	Studies of adsorption and electron-induced dissociation of Fe(CO)5 on Si(100). Surface Science, 1986, 171, 197-207.	1.9	40
25	Thermal and photochemical vapour deposition of Fe from Fe(CO)5 on Si(100). Surface Science, 1989, 209, 151-158.	1.9	39
26	Thin film diamond UV photodetectors: photodiodes compared with photoconductive devices for highly selective wavelength response. Diamond and Related Materials, 1996, 5, 829-834.	3.9	39
27	Biocompatibility of nanostructured boron doped diamond for the attachment and proliferation of human neural stem cells. Journal of Neural Engineering, 2015, 12, 066016.	3.5	38
28	Polishing, preparation and patterning of diamond for device applications. Diamond and Related Materials, 2019, 97, 107424.	3.9	38
29	Growth and electrical characterisation of Î´-doped boron layers on (111) diamond surfaces. Journal of Applied Physics, 2012, 111, 033710.	2.5	37
30	Formation of shallow acceptor states in the surface region of thin film diamond. Applied Physics Letters, 2001, 78, 3460-3462.	3.3	36
31	Determination of traps in poly(p-phenylene vinylene) light emitting diodes by charge-based deep level transient spectroscopy. Journal of Applied Physics, 2001, 90, 4196-4204.	2.5	35
32	Nanodiamonds for device applications: An investigation of the properties of boron-doped detonation nanodiamonds. Scientific Reports, 2018, 8, 3270.	3.3	35
33	Growth of nanocrystalline diamond films for low field electron emission. Diamond and Related Materials, 1999, 8, 768-771.	3.9	34
34	Engineering low resistance contacts on p-type hydrogenated diamond surfaces. Diamond and Related Materials, 2000, 9, 975-981.	3.9	32
35	Chapter 6 Diamond-based radiation and photon detectors. Semiconductors and Semimetals, 2004, , 197-309.	0.7	32
36	Tuning the electron affinity of CVD diamond with adsorbed caesium and oxygen layers. Diamond and Related Materials, 1997, 6, 874-878.	3.9	31

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37	Influence of the postplasma process conditions on the surface conductivity of hydrogenated diamond surfaces. Journal of Applied Physics, 2003, 93, 2700-2704.	2.5	30
38	Fabrication of aluminium nitride/diamond and gallium nitride/diamond SAW devices. Diamond and Related Materials, 1999, 8, 309-313.	3.9	28
39	Low Temperature Surface Conductivity of Hydrogenated Diamond. Physica Status Solidi A, 2001, 186, 241-247.	1.7	28
40	High growth rate MWPECVD of single crystal diamond. Diamond and Related Materials, 2004, 13, 557-560.	3.9	28
41	UV Photodetectors from Thin Film Diamond. Physica Status Solidi A, 1996, 154, 445-454.	1.7	27
42	Nanometric diamond delta doping with boron. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600329.	2.4	27
43	Surface studies of the interaction of Cl2 with InP(100)(4 Ã— 2); an investigation of adsorption, thermal etching and ion beam assisted processes. Surface Science, 1990, 227, 197-207.	1.9	26
44	The effect of hydrogen on the electronic properties of CVD diamond films. Thin Solid Films, 1999, 343-344, 623-626.	1.8	26
45	Optimising the electronic and optoelectronic properties of thin-film diamond. Diamond and Related Materials, 1999, 8, 886-891.	3.9	26
46	Carrier generation within the surface region of hydrogenated thin film polycrystalline diamond. Diamond and Related Materials, 2001, 10, 423-428.	3.9	26
47	Electrical properties of monodispersed detonation nanodiamonds. Applied Physics Letters, 2010, 96, .	3.3	26
48	Enhancement mode metal-semiconductor field effect transistors from thin-film polycrystalline diamond. IEEE Electron Device Letters, 1998, 19, 112-114.	3.9	25
49	Diamond photoconductors: operational lifetime and radiation hardness under deep-UV excimer laser irradiation. Diamond and Related Materials, 2001, 10, 715-721.	3.9	25
50	Laser chemical vapor deposition of patterned Fe on silica glass: Observation and origins of periodic ripple structures. Journal of Applied Physics, 1986, 59, 2031-2034.	2.5	24
51	High-performance metal-semiconductor field effect transistors from thin-film polycrystalline diamond. Diamond and Related Materials, 1998, 7, 565-568.	3.9	23
52	Thin film diamond alpha detectors for dosimetry applications. Diamond and Related Materials, 1999, 8, 952-955.	3.9	23
53	Imaging deep UV light with diamond-based systems. Diamond and Related Materials, 2002, 11, 433-436.	3.9	23
54	Acoustic wave properties of CVD diamond. Semiconductor Science and Technology, 2003, 18, S86-S95.	2.0	23

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55	Chemical routes to GaAs etching with low-energy ion beams. Journal of Physics Condensed Matter, 1991, 3, S179-S186.	1.8	22
56	High collection efficiency CVD diamond alpha detectors. IEEE Transactions on Nuclear Science, 1998, 45, 370-373.	2.0	22
57	Metalâ€“semiconductorâ€“metal photodiodes fabricated from thin-film diamond. Applied Physics Letters, 1999, 74, 3332-3334.	3.3	22
58	A thin-film diamond phototransistor. Applied Physics Letters, 1999, 74, 615-617.	3.3	21
59	An insight into neutron detection from polycrystalline CVD diamond films. Diamond and Related Materials, 2004, 13, 791-795.	3.9	21
60	Electrical properties of aggregated detonation nanodiamonds. Applied Physics Letters, 2008, 93, .	3.3	21
61	Fabrication and characterisation of triangle-faced single crystal diamond micro-cantilevers. Diamond and Related Materials, 2010, 19, 742-747.	3.9	21
62	Nanocrystalline diamond as an electronic material: An impedance spectroscopic and Hall effect measurement study. Journal of Applied Physics, 2010, 107, 033716.	2.5	21
63	Electrical Conduction in Polycrystalline CVD Diamond: Temperature Dependent Impedance Measurements. Physica Status Solidi A, 2002, 193, 462-469.	1.7	20
64	An impedance spectroscopic study of n-type phosphorus-doped diamond. Journal of Applied Physics, 2005, 98, 073701.	2.5	20
65	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. Nanoscale, 2017, 9, 16586-16590.	5.6	20
66	Electron beam stimulated chemical vapor deposition of patterned tungsten films on Si(100). Applied Physics Letters, 1986, 49, 196-198.	3.3	19
67	Interaction of hydrogen with chemical vapor deposition diamond surfaces: A thermal desorption study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 3033-3039.	2.1	19
68	Diamond chemical vapor deposition from a capacitively coupled radio frequency plasma. Applied Physics Letters, 1995, 66, 1018-1020.	3.3	19
69	A thin film diamondp-channel field-effect transistor. Applied Physics Letters, 1997, 70, 339-341.	3.3	19
70	Polycrystalline diamond films for acoustic wave devices. Diamond and Related Materials, 1998, 7, 533-539.	3.9	18
71	Diamond deep UV photodetectors: reducing charge decay times for 1-kHz operation. Diamond and Related Materials, 2000, 9, 195-200.	3.9	18
72	High-speed diamond photoconductors: a solution for high rep-rate deep-UV laser applications. Diamond and Related Materials, 2001, 10, 650-656.	3.9	18

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73	An investigation of the surface reactivity of diamond photocathodes with molecular and atomic oxygen species. Diamond and Related Materials, 2001, 10, 710-714.	3.9	18
74	Nanodiamond-coated silicon cantilever array for chemical sensing. Applied Physics Letters, 2010, 97, 093103.	3.3	18
75	The interaction of atomic hydrogen with adsorbed ethylene and acetylene on Si(100). Surface Science, 1994, 315, 69-80.	1.9	17
76	Nucleation and growth of diamond films on single crystal and polycrystalline tungsten substrates. Diamond and Related Materials, 2000, 9, 262-268.	3.9	17
77	Black diamond: a new material for active electronic devices. Diamond and Related Materials, 2002, 11, 396-399.	3.9	17
78	The interaction of azomethane with Si(100). Surface Science, 1995, 341, 92-102.	1.9	16
79	High temperature polycrystalline diamond metal-insulator-semiconductor field-effect-transistor. Diamond and Related Materials, 1997, 6, 333-338.	3.9	16
80	Mechanisms of surface conductivity in thin film diamond: Application to high performance devices. Carbon, 1999, 37, 801-805.	10.3	16
81	Electronic properties of homoepitaxial (111) highly boron-doped diamond films. Journal of Applied Physics, 2008, 103, .	2.5	16
82	Capacitively coupled r.f. plasma sources: a viable approach for CVD diamond growth?. Diamond and Related Materials, 1994, 3, 602-607.	3.9	15
83	Influence of material properties on the performance of diamond photocathodes. Diamond and Related Materials, 2002, 11, 437-441.	3.9	15
84	Extreme sensitivity displayed by single crystal diamond deep ultraviolet photoconductive devices. Applied Physics Letters, 2009, 95, 243501.	3.3	15
85	Diamond Etching Beyond 10â€‰Î¼m with Near-Zero Micromasking. Scientific Reports, 2019, 9, 15619.	3.3	15
86	The interaction of WF6 with Si(100); thermal and photon induced reactions. Surface Science, 1988, 201, 47-58.	1.9	14
87	The initial stages of diamond growth: an adsorption study of hot filament activated methane and hydrogen on Si(100). Surface Science, 1993, 292, 47-60.	1.9	14
88	Surface studies of the reactivity of methyl, acetylene and atomic hydrogen at CVD diamond surfaces. Surface Science, 1998, 399, 1-14.	1.9	14
89	An optically activated diamond field effect transistor. Diamond and Related Materials, 1999, 8, 946-951.	3.9	14
90	Reactions of xenon difluoride and atomic hydrogen at chemical vapour deposited diamond surfaces. Surface Science, 2001, 488, 335-345.	1.9	14

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91	Deep level transient spectroscopy of CVD diamond: the observation of defect states in hydrogenated films. Diamond and Related Materials, 2001, 10, 610-614.	3.9	14
92	Multiple parallel conduction paths observed in depth-profiled n-GaN epilayers. Journal of Applied Physics, 2002, 91, 9835.	2.5	14
93	Boron Î´-doped (111) diamond solution gate field effect transistors. Biosensors and Bioelectronics, 2012, 33, 152-157.	10.1	14
94	Optimizing reactive ion etching to remove sub-surface polishing damage on diamond. Journal of Applied Physics, 2019, 125, 244502.	2.5	14
95	Growth studies of thin film diamond using molecular beam techniques. Diamond and Related Materials, 1996, 5, 231-235.	3.9	13
96	Enhancing low field electron emission from polycrystalline diamond. Diamond and Related Materials, 1997, 6, 869-873.	3.9	13
97	Characterization of acoustic Lamb wave propagation in polycrystalline diamond films by laser ultrasonics. Journal of Applied Physics, 2000, 88, 2984-2993.	2.5	13
98	Understanding the chemistry of low temperature diamond growth: an investigation into the interaction of chlorine and atomic hydrogen at CVD diamond surfaces. Diamond and Related Materials, 2000, 9, 246-250.	3.9	13
99	Novel in-plane gate devices on hydrogenated diamond surfaces. Physica Status Solidi A, 2003, 199, 56-63.	1.7	13
100	Next generation brain implant coatings and nerve regeneration via novel conductive nanocomposite development. , 2011, 2011, 3253-7.		13
101	Electronic properties of graphene-single crystal diamond heterostructures. Journal of Applied Physics, 2013, 114, 053709.	2.5	12
102	Graphene diamond-like carbon films heterostructure. Applied Physics Letters, 2015, 106, .	3.3	12
103	Gate Oxide Electrical Stability of p-type Diamond MOS Capacitors. IEEE Transactions on Electron Devices, 2018, 65, 3361-3364.	3.0	12
104	Spontaneous Differentiation of Human Neural Stem Cells on Nanodiamonds. Advanced Biology, 2019, 3, 1800299.	3.0	12
105	Ion beam assisted etching of silicon with bromine. Applied Surface Science, 1989, 43, 439-446.	6.1	11
106	High temperature stability of chemically vapour deposited diamond diodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 29, 223-227.	3.5	11
107	DC current and AC impedance measurements on boron-doped single crystalline diamond films. Physica Status Solidi A, 2003, 199, 92-96.	1.7	11
108	Dielectric properties of single crystal diamond. Semiconductor Science and Technology, 2005, 20, 296-298.	2.0	11

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109	Multiple conduction paths in boron Î´-doped diamond structures. Applied Physics Letters, 2009, 94, 052107.	3.3	11
110	Synthesis of carbon nanotubes on single crystal diamond. Carbon, 2010, 48, 3027-3032.	10.3	11
111	The growth of nucleation layers for high-quality diamond CVD from an r.f. plasma. Diamond and Related Materials, 1995, 4, 735-739.	3.9	10
112	Aluminum and nickel contact metallizations on thin film diamond. Journal of Applied Physics, 1995, 78, 2877-2879.	2.5	10
113	Biased enhanced nucleation of diamond on metals: an OES and electrical investigation. Diamond and Related Materials, 1997, 6, 658-663.	3.9	10
114	Progress towards high power thin film diamond transistors. Diamond and Related Materials, 1999, 8, 966-971.	3.9	10
115	The influence of ammonia on the electrical properties of detonation nanodiamond. Journal of Applied Physics, 2009, 106, .	2.5	10
116	Machine learning for the prediction of stopping powers. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 21-33.	1.4	10
117	Laser projection patterning for the formation of thin film diamond microstructures. Diamond and Related Materials, 1996, 5, 317-320.	3.9	9
118	Growth and mechanistic studies of diamond formation by chemical beam epitaxy using methyl and acetylene precursors. Journal of Crystal Growth, 1996, 164, 208-213.	1.5	9
119	Hydrogen â€œdopedâ€•thin film diamond field effect transistors for high power applications. Solid-State Electronics, 1998, 42, 2215-2223.	1.4	9
120	Photoelectron spectroscopy studies of barium films on diamond with respect to the modification of negative electron affinity characteristics. Diamond and Related Materials, 1998, 7, 651-655.	3.9	9
121	High-performance devices from surface-conducting thin-film diamond. Carbon, 1999, 37, 817-822.	10.3	9
122	Acoustic wave propagation in free standing CVD diamond: Influence of film quality and temperature. Diamond and Related Materials, 1999, 8, 732-737.	3.9	9
123	High carrier mobilities in black diamond. Semiconductor Science and Technology, 2003, 18, S77-S80.	2.0	9
124	The effect of excimer laser etching on thin film diamond. Semiconductor Science and Technology, 2003, 18, S47-S58.	2.0	9
125	Homoepitaxial diamond growth for the control of surface conductive carrier transport properties. Journal of Applied Physics, 2004, 96, 3742-3747.	2.5	9
126	Homoepitaxial growth for surface conductive device applications. Diamond and Related Materials, 2004, 13, 325-328.	3.9	9

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127	Patterning of Nanodiamond Tracks and Nanocrystalline Diamond Films Using a Micropipette for Additive Direct-Write Processing. ACS Applied Materials & Interfaces, 2015, 7, 6490-6495.	8.0	9
128	A High Performance UV Photodetector from Thin Film Diamond. Materials Research Society Symposia Proceedings, 1995, 416, 419.	0.1	8
129	Dopant incorporation mechanisms during the growth of thin film diamond. Diamond and Related Materials, 1996, 5, 378-382.	3.9	8
130	Microwave plasma characteristics during biasâ€enhanced nucleation of diamond: An optical emission spectroscopic study. Journal of Applied Physics, 1996, 80, 3710-3716.	2.5	8
131	Ion implantation of sulphur, boron and nitrogen in diamond: a charge-based deep level transient spectroscopic investigation. Diamond and Related Materials, 2002, 11, 342-346.	3.9	8
132	Diamond photodetector response to deep UV excimer laser excitation. Diamond and Related Materials, 2003, 12, 677-681.	3.9	8
133	Charge-based deep level transient spectroscopy of phosphorous-doped homoepitaxial diamond. Journal of Applied Physics, 2003, 94, 5832-5843.	2.5	8
134	Influence of temperature on the electrochemical window of boron doped diamond: a comparison of commercially available electrodes. Scientific Reports, 2020, 10, 15707.	3.3	8
135	Diamond-like carbon within microelectronics: Dielectric properties on silicon and GaAs. Diamond and Related Materials, 1992, 1, 895-899.	3.9	7
136	A route for the formation of CH2 species during diamond CVD. Diamond and Related Materials, 1995, 4, 740-744.	3.9	7
137	Simultaneous Conduction and Valence Band Quantization in Ultrashallow High-Density Doping Profiles in Semiconductors. Physical Review Letters, 2018, 120, 046403.	7.8	7
138	A detailed EIS study of boron doped diamond electrodes decorated with gold nanoparticles for high sensitivity mercury detection. Scientific Reports, 2021, 11, 9505.	3.3	7
139	Geometric optimisation for the deposition of high temperature superconductors. Applied Surface Science, 1989, 43, 382-386.	6.1	6
140	Optimising control of microwave plasma bias enhanced nucleation for heteroepitaxial chemical vapour deposition diamond. Diamond and Related Materials, 1997, 6, 676-680.	3.9	6
141	Nanodiamond-gated silicon ion-sensitive field effect transistor. Applied Physics Letters, 2011, 98, 153507.	3.3	6
142	Diamond Electrodes for High Sensitivity Mercury Detection in the Aquatic Environment: Influence of Surface Preparation and Gold Nanoparticle Activity. Electroanalysis, 2019, 31, 1775-1782.	2.9	6
143	Probing Electron-Phonon Interactions Away from the Fermi Level with Resonant Inelastic X-Ray Scattering. Physical Review X, 2021, 11, .	8.9	6
144	Adsorption, etching and photo-induced reactions at the Si(100)-CCl4interface. Journal of Physics Condensed Matter, 1989, 1, SB181-SB182.	1.8	5

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145	Ion beam-assisted etching of semiconductors: surface chemistry vs surface physics. Vacuum, 1993, 44, 239-243.	3.5	5
146	Spatially resolved optical emission spectroscopy of the secondary glow observed during biasing of a microwave plasma. Vacuum, 2000, 56, 15-23.	3.5	5
147	Influence of Surface Properties on the Quantum Photoyield of Diamond Photocathodes. Physica Status Solidi A, 2001, 186, 227-233.	1.7	5
148	The occupied electronic structure of ultrathin boron doped diamond. Nanoscale Advances, 2020, 2, 1358-1364.	4.6	5
149	Normally-OFF Diamond Reverse Blocking MESFET. IEEE Transactions on Electron Devices, 2021, 68, 6279-6285.	3.0	5
150	Novel precursors for chemically assisted ion beam etching : reactions of dichloroethane on GaAs (100). Vacuum, 1993, 44, 249-256.	3.5	4
151	<title>Diamond photodetectors for UV laser-based applications</title>. , 1998, 3484, 182.		4
152	Characterisation of the secondary glow region of a biased microwave plasma by optical emission spectroscopy. Diamond and Related Materials, 2000, 9, 305-310.	3.9	4
153	Diamond growth on hot-filament chemically vapour-deposited diamond for surface conductive device applications. Diamond and Related Materials, 2004, 13, 166-169.	3.9	4
154	An impedance spectroscopic investigation of the electrical properties of Î´-doped diamond structures. Journal of Applied Physics, 2009, 106, .	2.5	4
155	Chemical Precursors for GaAs Etching with low Energy ion Beams: Chlorine adsorption on GaAs(100). Materials Research Society Symposia Proceedings, 1991, 223, 215.	0.1	4
156	A comparative study of the adsorption of hot filament activated hydrocarbons on silicon, gallium arsenide and CVD diamond. Diamond and Related Materials, 1994, 3, 706-710.	3.9	3
157	High Speed Diamond Photoconductive Devices for UV Detection. Physica Status Solidi A, 2001, 185, 99-106.	1.7	3
158	Diamond photocathodes in gaseous environments. Diamond and Related Materials, 2004, 13, 900-903.	3.9	3
159	The influence of surface functionalisation on the electrical properties and thermal stability of nanodiamonds. Journal of Applied Physics, 2014, 116, 133705.	2.5	3
160	Investigation of CVD graphene topography and surface electrical properties. Surface Topography: Metrology and Properties, 2016, 4, 025001.	1.6	3
161	Insituxâ€ray photoemission studies of the oxidation of Yâ€Baâ€Cu films. Journal of Applied Physics, 1988, 64, 6799-6802.	2.5	2
162	Surface spectroscopic and molecular beam studies of the reactions of trimethylaluminium on Si(100). Journal of Physics Condensed Matter, 1989, 1, SB145-SB148.	1.8	2

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163	Chemical vapour deposition of diamond from a novel capacitively coupled r.f. plasma source. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 29, 216-219.	3.5	2
164	Thin Film Diamond Field Effect Transistors For High Power Applications. Materials Research Society Symposia Proceedings, 1997, 483, 63.	0.1	2
165	Diamond growth chemistry: Its observation using real time in situ molecular beam scattering techniques. Diamond and Related Materials, 1997, 6, 219-223.	3.9	2
166	Thin film diamond metal-insulator field effect transistor for high temperature applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 46, 124-128.	3.5	2
167	Reactive chemistry of C2Hx species on CVD diamond. Diamond and Related Materials, 1998, 7, 243-246.	3.9	2
168	Field emission from thin film diamond grown using a magnetically enhanced radio frequency plasma source. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 719.	1.6	2
169	Diamond Electronics: Defect Passivation for High Performance Photodetector Operation. Physica Status Solidi A, 2000, 181, 121-128.	1.7	2
170	Evidence of an impurity band at an n-GaN/sapphire interface. Diamond and Related Materials, 2003, 12, 1127-1132.	3.9	2
171	Analysis of deep traps in 4,4$prime;-bis(4-dimethylaminostyryl benzene) based light emitting diode devices. Organic Electronics, 2004, 5, 53-58.	2.6	2
172	Nanodiamond-gated diamond field-effect transistor for chemical sensing using hydrogen-induced transfer doping for channel formation. Applied Physics Letters, 2010, 97, 203503.	3.3	2
173	Thermal and ion-beam-induced etching of InP with chlorine. Journal of Physics Condensed Matter, 1989, 1, SB179-SB180.	1.8	1
174	Ion/Neutral Beam Assisted Etching of Semiconductors: Chemical Modifications of the Adsorbed Phase. Materials Research Society Symposia Proceedings, 1991, 223, 61.	0.1	1
175	The Role of Ion Beam Assisted Surface Chemistry in Etching: Adsorption and Reactions of ALKYL Halides. Materials Research Society Symposia Proceedings, 1992, 268, 23.	0.1	1
176	Chemical etching of GaAs with a novel low energy ion beam source : A low damage process for device fabrication. Vacuum, 1993, 44, 257-261.	3.5	1
177	Interaction of organo-sulfur compounds with CVD diamond surfaces. Diamond and Related Materials, 2000, 9, 1167-1170.	3.9	1
178	<title>Diamond-based deep-UV sensors for lithography applications</title>. , 2001, , .		1
179	Charge-based deep-level transient spectroscopy of poly(p phenylenevinylene) light-emitting diodes. , 2002, 4464, 142.		1
180	Diamond-Based 1-D Imaging Arrays. Physica Status Solidi A, 2002, 193, 476-481.	1.7	1

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181	Hydrogenated Black Diamond: An Electrical Study. Physica Status Solidi A, 2002, 193, 577-584.	1.7	1
182	Nanocrystalline Diamond as a Dielectric for SOD Applications. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	1
183	Neuron Growth on Nanodiamond. RSC Nanoscience and Nanotechnology, 2014, , 195-220.	0.2	1
184	Diamond Nanowire Transistor with High Current Capability. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100622.	1.8	1
185	Ultra-Low Damage Chemical Etching of GaAs with a Novel Ion Beam Source. Materials Research Society Symposia Proceedings, 1992, 268, 35.	0.1	0
186	Surface Chemical Routes to Low Contamination Beam Assisted GaAs Etching. Materials Research Society Symposia Proceedings, 1992, 279, 587.	0.1	0
187	Surface Spectroscopic Studies of the Initial Stages of Diamond Growth on Si(100). Materials Research Society Symposia Proceedings, 1992, 282, 677.	0.1	0
188	Dry etching techniques for GaAs ultra-high vacuum chamber integrated processing. Microelectronic Engineering, 1994, 25, 287-292.	2.4	0
189	CVD Diamond for Ultraviolet and Particle Detectors. , 1998, , 305-328.		0
190	MEASUREMENT OF ELECTRICAL ACTIVATION ENERGY IN BLACK CVD DIAMOND USING IMPEDANCE SPECTROSCOPY. International Journal of Modern Physics B, 2002, 16, 4487-4492.	2.0	0
191	Determination of Traps in Poly(p-phenylene vinylene) Light Emitting Diodes by Chargebased Deep Level Transient Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 725, 1.	0.1	0
192	Diamond Based Ion-Sensitive Field Effect Transistors for Cellular Biosensing. Materials Research Society Symposia Proceedings, 2006, 956, 1.	0.1	0
193	Deep UV Photodetectors fabricated from CVD Single Crystal Diamond. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0
194	Observation of multiple conduction paths in boron δ-doped diamond structures. , 2014, , .		0