

# Alexander Kromka

## List of Publications by Year in descending order

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292  
papers

5,703  
citations

126907

33  
h-index

133252

59  
g-index

294  
all docs

294  
docs citations

294  
times ranked

5430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coating Ti6Al4V implants with nanocrystalline diamond functionalized with BMP-7 promotes extracellular matrix mineralization in vitro and faster osseointegration in vivo. <i>Scientific Reports</i> , 2022, 12, 5264.	3.3	13
2	Impact of electrolyte solution on electrochemical oxidation treatment of <i>Escherichia coli</i> K-12 by boron-doped diamond electrodes. <i>Letters in Applied Microbiology</i> , 2022, 74, 924-931.	2.2	2
3	Temperature and ambient atmosphere dependent electrical characterization of sputtered IrO <sub>2</sub> /TiO <sub>2</sub> /IrO <sub>2</sub> capacitors. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	3
4	Detection of globular and fibrillar proteins by quartz crystal microbalance sensor coated with a functionalized diamond thin film. <i>Applied Surface Science</i> , 2022, 589, 153017.	6.1	2
5	New chemical pathway for large-area deposition of doped diamond films by linear antenna microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2022, 126, 109111.	3.9	14
6	Size and nitrogen inhomogeneity in detonation and laser synthesized primary nanodiamond particles revealed via salt-assisted deaggregation. <i>Carbon</i> , 2021, 171, 230-239.	10.3	17
7	Human osteoblast-like SAOS-2 cells on submicron-scale fibers coated with nanocrystalline diamond films. <i>Materials Science and Engineering C</i> , 2021, 121, 111792.	7.3	21
8	Electron emission from H-terminated diamond enhanced by polypyrrole grafting. <i>Carbon</i> , 2021, 176, 642-649.	10.3	8
9	Optical emission spectroscopy of radio frequency inductively coupled plasma for cold hydrogenation of nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1050, 012012.	0.6	3
10	Size Effects on Surface Chemistry and Raman Spectra of Sub-5 nm Oxidized High-Pressure High-Temperature and Detonation Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5647-5669.	3.1	25
11	Laser-Induced Modification of Hydrogenated Detonation Nanodiamonds in Ethanol. <i>Nanomaterials</i> , 2021, 11, 2251.	4.1	3
12	Hydrogen-Terminated Diamond Surface as a Gas Sensor: A Comparative Study of Its Sensitivities. <i>Sensors</i> , 2021, 21, 5390.	3.8	6
13	Gamma radiation effects on diamond field-effect biosensors with fibroblasts and extracellular matrix. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111689.	5.0	5
14	Spectral tuning of diamond photonic crystal slabs by deposition of a thin layer with silicon vacancy centers. <i>Nanophotonics</i> , 2021, 10, 3895-3905.	6.0	3
15	Influence of SiON interlayer on the diamond/GaN heterostructures studied by Raman and SIMS measurements. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115434.	3.5	0
16	Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , 2020, 171, 108957.	3.5	14
17	Non-conducting polyaniline nanofibrils and their physico-chemical behavior. <i>Vacuum</i> , 2020, 171, 108955.	3.5	3
18	Fabrication of Diamond Membranes by Femtosecond Laser Ablation for MEMS Sensor Applications. <i>Proceedings (mdpi)</i> , 2020, 56, .	0.2	0

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19	Sub-picosecond electron dynamics in polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2020, 108, 107935.	3.9	2
20	Preparation and characterization of alumina submicron fibers by plasma assisted calcination. <i>Ceramics International</i> , 2020, 46, 22774-22780.	4.8	13
21	Effect of a diamond layer on the active electrode on the ozone generation of the dielectric barrier discharge in air. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 275203.	2.8	5
22	Ni-mediated reactions in nanocrystalline diamond on Si substrates: the role of the oxide barrier. <i>RSC Advances</i> , 2020, 10, 8224-8232.	3.6	6
23	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114020.	3.8	27
24	Nanosphere Lithography for Structuring Polycrystalline Diamond Films. <i>Crystals</i> , 2020, 10, 118.	2.2	18
25	Photogenerated charge collection on diamond electrodes with covalently linked chromophore monolayers. <i>Electrochimica Acta</i> , 2020, 337, 135762.	5.2	7
26	Flexoelectricity in polycrystalline TiO <sub>2</sub> thin films. <i>Acta Materialia</i> , 2020, 190, 124-129.	7.9	14
27	Photonic crystal cavity-enhanced emission from silicon vacancy centers in polycrystalline diamond achieved without postfabrication fine-tuning. <i>Nanoscale</i> , 2020, 12, 13055-13063.	5.6	13
28	Direct Deposition of CVD Diamond Layers on Top of GaN Membranes. <i>Proceedings (mdpi)</i> , 2020, 56, .	0.2	0
29	Optimization of diamond growth on structured, soft and brittle substrates. , 2020, , .		0
30	Front-side diamond deposition on the GaN membranes. , 2020, , .		0
31	Maximized vertical photoluminescence from optical material with losses employing resonant excitation and extraction of photonic crystal modes. <i>Nanophotonics</i> , 2019, 8, 1041-1050.	6.0	5
32	Stability of the surface termination of nanocrystalline diamond and diamond-like carbon films exposed to open air conditions. <i>Diamond and Related Materials</i> , 2019, 100, 107562.	3.9	9
33	Determination of tumour biomarkers homovanillic and vanillylmandelic acid using flow injection analysis with amperometric detection at a boron doped diamond electrode. <i>Analytica Chimica Acta</i> , 2019, 1087, 44-50.	5.4	20
34	Infrared Absorption Spectroscopy of Albumin Binding with Amine-Containing Plasma Polymer Coatings on Nanoporous Diamond Surfaces. <i>Langmuir</i> , 2019, 35, 13844-13852.	3.5	9
35	Cyclic Changes in the Amide Bands Within <i>Escherichia coli</i> Biofilms Monitored Using Real-Time Infrared Attenuated Total Reflection Spectroscopy (IR-ATR). <i>Applied Spectroscopy</i> , 2019, 73, 424-432.	2.2	20
36	Nanocrystalline diamond-based impedance sensors for real-time monitoring of adipose tissue-derived stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 130-136.	5.0	2

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37	Alterations to the adhesion, growth and osteogenic differentiation of human osteoblast-like cells on nanofibrous polylactide scaffolds with diamond nanoparticles. <i>Diamond and Related Materials</i> , 2019, 97, 107421.	3.9	9
38	Great Variety of Man-Made Porous Diamond Structures: Pulsed Microwave Cold Plasma System with a Linear Antenna Arrangement. <i>ACS Omega</i> , 2019, 4, 8441-8450.	3.5	17
39	Covalent Diamond-Graphite Bonding: Mechanism of Catalytic Transformation. <i>ACS Nano</i> , 2019, 13, 4621-4630.	14.6	38
40	Nucleation of diamond micro-patterns with photoluminescent SiV centers controlled by amorphous silicon thin films. <i>Applied Surface Science</i> , 2019, 480, 1008-1013.	6.1	4
41	Carbide-free one-zone sulfurization method grows thin MoS <sub>2</sub> layers on polycrystalline CVD diamond. <i>Scientific Reports</i> , 2019, 9, 2001.	3.3	19
42	Structured and graphitized boron doped diamond electrodes: Impact on electrochemical detection of Cd <sup>2+</sup> and Pb <sup>2+</sup> ions. <i>Vacuum</i> , 2019, 170, 108953.	3.5	15
43	Co-implantation of Er and Yb ions into single-crystalline and nano-crystalline diamond. <i>Surface and Interface Analysis</i> , 2018, 50, 1218-1223.	1.8	7
44	Anti-adhesive properties of nanocrystalline diamond films against <i>Escherichia coli</i> bacterium: Influence of surface termination and cultivation medium. <i>Diamond and Related Materials</i> , 2018, 83, 87-93.	3.9	16
45	Influence of the growth temperature on the Si-V photoluminescence in diamond thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	7
46	Diamond nucleation and growth on horizontally and vertically aligned Si substrates at low pressure in a linear antenna microwave plasma system. <i>Diamond and Related Materials</i> , 2018, 82, 41-49.	3.9	14
47	Study of Ni-Catalyzed Graphitization Process of Diamond by <i>in Situ</i> X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6629-6636.	3.1	22
48	Microsphere lithography for scalable polycrystalline diamond-based near-infrared photonic crystals fabrication. <i>Materials and Design</i> , 2018, 139, 363-371.	7.0	14
49	Hydroxylation and self-assembly of colloidal hydrogenated nanodiamonds by aqueous oxygen radicals from atmospheric pressure plasma jet. <i>RSC Advances</i> , 2018, 8, 37681-37692.	3.6	11
50	Fabrication of Structured Boron-Doped Diamond Films for Electrochemical Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 984.	0.2	0
51	Functionalization of boron-doped diamond with a push-pull chromophore via Sonogashira and CuAAC chemistry. <i>RSC Advances</i> , 2018, 8, 33276-33290.	3.6	13
52	Two-dimensional photonic crystals increasing vertical light emission from Si nanocrystal-rich thin layers. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2287-2296.	2.8	1
53	Study on electronic properties of diamond/SiN <sub>x</sub> -coated AlGaIn/GaN high electron mobility transistors operating up to 500 °C. <i>Diamond and Related Materials</i> , 2018, 89, 266-272.	3.9	9
54	Gas-sensing behaviour of ZnO/diamond nanostructures. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 22-29.	2.8	27

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55	Diamond nanoparticles suppress lateral growth of bacterial colonies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 544-552.	5.0	8
56	Silicon-Vacancy Centers in Ultra-Thin Nanocrystalline Diamond Films. <i>Micromachines</i> , 2018, 9, 281.	2.9	11
57	Erbium Luminescence Centres in Single- and Nano-Crystalline Diamond—Effects of Ion Implantation Fluence and Thermal Annealing. <i>Micromachines</i> , 2018, 9, 316.	2.9	5
58	Inhibition of E. coli Growth by Nanodiamond and Graphene Oxide Enhanced by Luria-Bertani Medium. <i>Nanomaterials</i> , 2018, 8, 140.	4.1	35
59	C sp <sup>2</sup> /sp <sup>3</sup> hybridisations in carbon nanomaterials — XPS and (X)AES study. <i>Applied Surface Science</i> , 2018, 452, 223-231.	6.1	316
60	Electron affinity of undoped and boron-doped polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2018, 87, 208-214.	3.9	14
61	Influence of non-adherent yeast cells on electrical characteristics of diamond-based field-effect transistors. <i>Applied Surface Science</i> , 2017, 395, 214-219.	6.1	7
62	Erbium ion implantation into diamond — measurement and modelling of the crystal structure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6233-6245.	2.8	18
63	The influence of selected nanomaterials on microorganisms. <i>Monatshefte für Chemie</i> , 2017, 148, 525-530.	1.8	10
64	Templated diamond growth on porous carbon foam decorated with polyvinyl alcohol-nanodiamond composite. <i>Carbon</i> , 2017, 119, 124-132.	10.3	15
65	Determination of temperature dependent parameters of zero-phonon line in photo-luminescence spectrum of silicon-vacancy centre in CVD diamond thin films. <i>Journal of Electrical Engineering</i> , 2017, 68, 74-78.	0.7	6
66	Osteoblast adhesion, migration, and proliferation variations on chemically patterned nanocrystalline diamond films evaluated by live-cell imaging. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1469-1478.	4.0	13
67	Expanding the Scope of Diamond Surface Chemistry: Stille and Sonogashira Cross-Coupling Reactions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23446-23454.	3.1	16
68	Ultrathin Nanocrystalline Diamond Films with Silicon Vacancy Color Centers via Seeding by 2 nm Detonation Nanodiamonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38842-38853.	8.0	52
69	Silicon nanocrystal-based photonic crystal slabs with broadband and efficient directional light emission. <i>Scientific Reports</i> , 2017, 7, 5763.	3.3	14
70	Multimodal Analysis of Diamond Crystals and Layers Using RISE Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 2280-2281.	0.4	0
71	Surface chemistry of water-dispersed detonation nanodiamonds modified by atmospheric DC plasma afterglow. <i>RSC Advances</i> , 2017, 7, 38973-38980.	3.6	6
72	Diamond/carbon nanotube composites: Raman, FTIR and XPS spectroscopic studies. <i>Carbon</i> , 2017, 111, 54-61.	10.3	247

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73	Influence of substrate material on spectral properties and thermal quenching of photoluminescence of silicon vacancy colour centres in diamond thin films. Journal of Electrical Engineering, 2017, 68, 3-9.	0.7	2
74	Influence of the selected nanomaterials and micro-pollutants on the environment. Toxicology Letters, 2017, 280, S213.	0.8	4
75	Influence of Buffers and Culture Media on Diamond Solution-Gated Field Effect Transistors Regarding Stability and Memory Effect. Proceedings (mdpi), 2017, 1, .	0.2	0
76	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors â€. Proceedings (mdpi), 2017, 1, 515.	0.2	1
77	Uptake and intracellular accumulation of diamond nanoparticles â€“ a metabolic and cytotoxic study. Beilstein Journal of Nanotechnology, 2017, 8, 1649-1657.	2.8	8
78	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors. Proceedings (mdpi), 2017, 1, 515.	0.2	1
79	Bacterial response to nanodiamonds and graphene oxide sheets. Physica Status Solidi (B): Basic Research, 2016, 253, 2481-2485.	1.5	19
80	Influence of nanocrystalline diamond on resonant properties of gold plasmonic antennas. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1564-1571.	1.8	0
81	Temperature-dependent stress in diamond-coated AlGaIn/GaN heterostructures. Materials and Design, 2016, 106, 305-312.	7.0	8
82	Plasma treatment of detonation and HPHT nanodiamonds in diffuse coplanar surface barrier discharge in H <sub>2</sub> /N <sub>2</sub> flow. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2680-2686.	1.8	13
83	High-yield fabrication and properties of 1.4â€‰%nm nanodiamonds with narrow size distribution. Scientific Reports, 2016, 6, 38419.	3.3	63
84	Real-time Monitoring of Cell Activities by Diamond Solution-gated Field Effect Transistors. Procedia Engineering, 2016, 168, 469-472.	1.2	1
85	Diamond Functional Layers for Cell-based Impedance Spectroscopy. Procedia Engineering, 2016, 168, 614-617.	1.2	3
86	Microcrystalline Diamond Membrane for Electronic Monitoring of Cells in Microfluidic Perfusion Systems. Procedia Engineering, 2016, 168, 1442-1445.	1.2	1
87	Size decrease of detonation nanodiamonds by air annealing investigated by AFM. MRS Advances, 2016, 1, 1067-1073.	0.9	7
88	Microscopic Electrical Conductivity of Nanodiamonds after Thermal and Plasma Treatments. MRS Advances, 2016, 1, 1105-1111.	0.9	8
89	Schottky contact metallization stability on AlGaIn/GaN heterostructure during the diamond deposition process. , 2016, , .		0
90	Nanocrystalline diamond films for electronic monitoring of gas and organic molecules. , 2016, , .		2

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91	Preparation and optical properties of nanocrystalline diamond coatings for infrared planar waveguides. <i>Thin Solid Films</i> , 2016, 618, 130-133.	1.8	23
92	Filamentation of diamond nanoparticles treated in underwater corona discharge. <i>RSC Advances</i> , 2016, 6, 2352-2360.	3.6	6
93	Visible Light Photodiodes and Photovoltages from Detonation Nanodiamonds. <i>MRS Advances</i> , 2016, 1, 971-975.	0.9	0
94	Nanocarbon Allotropes-Graphene and Nanocrystalline Diamond-Promote Cell Proliferation. <i>Small</i> , 2016, 12, 2499-2509.	10.0	27
95	Polymer-based nucleation for chemical vapour deposition of diamond. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	11
96	Catalyst-free site-specific surface modifications of nanocrystalline diamond films via microchannel cantilever spotting. <i>RSC Advances</i> , 2016, 6, 57820-57827.	3.6	14
97	Fabrication of diamond-coated germanium ATR prisms for IR-spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 84, 67-73.	2.2	3
98	Occurrence of pharmaceuticals, illicit drugs, and resistant types of bacteria in hospital effluent and their effective degradation by boron-doped diamond electrodes. <i>Monatshefte für Chemie</i> , 2016, 147, 97-103.	1.8	14
99	Oxidation and reduction of nanodiamond particles in colloidal solutions by laser irradiation or radio-frequency plasma treatment. <i>Vibrational Spectroscopy</i> , 2016, 83, 108-114.	2.2	12
100	Gamma radiation effects on hydrogen-terminated nanocrystalline diamond bio-transistors. <i>Diamond and Related Materials</i> , 2016, 63, 186-191.	3.9	5
101	Fabrication and Characterization of N-Type Zinc Oxide/P-Type Boron Doped Diamond Heterojunction. <i>Journal of Electrical Engineering</i> , 2015, 66, 277-281.	0.7	3
102	Technological Aspects in Fabrication of Micro- and Nano-Sized Carbon Based Features: Nanorods, Periodical Arrays and Self-Standing Membranes. <i>Journal of Electrical Engineering</i> , 2015, 66, 282-286.	0.7	3
103	Stochastic model explains formation of cell arrays on H/O-diamond patterns. <i>Biointerphases</i> , 2015, 10, 041006.	1.6	2
104	Diamond-coated three-dimensional GaN micromembranes: Effect of nucleation and deposition techniques. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2585-2590.	1.5	7
105	Influence of gas chemistry on Si-V color centers in diamond films. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2580-2584.	1.5	13
106	Low-Temperature hydrogenation of diamond nanoparticles using diffuse coplanar surface barrier discharge at atmospheric pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2602-2607.	1.5	18
107	Quartz crystal microbalance gas sensor with nanocrystalline diamond sensitive layer. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2591-2597.	1.5	10
108	Osteogenic cell differentiation on H-terminated and O-terminated nanocrystalline diamond films. <i>International Journal of Nanomedicine</i> , 2015, 10, 869.	6.7	41

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109	Influence of surface wave plasma deposition conditions on diamond growth regime. Surface and Coatings Technology, 2015, 271, 74-79.	4.8	12
110	Amination of NCD Films for Possible Application in Biosensing. Plasma Processes and Polymers, 2015, 12, 336-346.	3.0	20
111	Development of Composite Poly(Lactide-&lt;math>\text{co}&lt;/math>-Glycolide)-Nanodiamond Scaffolds for Bone Cell Growth. Journal of Nanoscience and Nanotechnology, 2015, 15, 1060-1069.	0.9	38
112	Investigation of residual stress in structured diamond films grown on silicon. Thin Solid Films, 2015, 589, 857-863.	1.8	14
113	Osteoblastic cells trigger gate currents on nanocrystalline diamond transistor. Colloids and Surfaces B: Biointerfaces, 2015, 129, 95-99.	5.0	12
114	Ferromagnetism appears in nitrogen implanted nanocrystalline diamond films. Journal of Magnetism and Magnetic Materials, 2015, 394, 477-480.	2.3	11
115	Size and Purity Control of HPHT Nanodiamonds down to 1 nm. Journal of Physical Chemistry C, 2015, 119, 27708-27720.	3.1	144
116	Influence of Diamond CVD Growth Conditions and Interlayer Material on Diamond/GaN Interface. Materials Science Forum, 2015, 821-823, 982-985.	0.3	7
117	Diamond-coated field-effect sensor for DNA recognition – Influence of material and morphology. Diamond and Related Materials, 2015, 60, 87-93.	3.9	8
118	Gas sensing properties of nanocrystalline diamond at room temperature. Beilstein Journal of Nanotechnology, 2014, 5, 2339-2345.	2.8	20
119	STRUCTURING OF DIAMOND FILMS USING MICROSPHERE LITHOGRAPHY. Acta Polytechnica, 2014, 54, 320-324.	0.6	4
120	DEPOSITION CARBON NANOSTRUCTURES BY SURFATRON GENERATED DISCHARGE. Acta Polytechnica, 2014, 54, 389-393.	0.6	0
121	HYDRATION OF PLASMA-TREATED ALUMOSILICATE BINDERS. Acta Polytechnica, 2014, 54, 348-351.	0.6	0
122	Fabrication of periodically ordered diamond nanostructures by microsphere lithography. Physica Status Solidi (B): Basic Research, 2014, 251, 2587-2592.	1.5	10
123	Hydrogen-Terminated Diamond Sensors for Electrical Monitoring of Cells. Key Engineering Materials, 2014, 605, 577-580.	0.4	7
124	Bone cells in cultures on nanocarbon-based materials for potential bone tissue engineering: A review (Phys. Status Solidi A 12-2014). Physica Status Solidi (A) Applications and Materials Science, 2014, 211, n/a-n/a.	1.8	0
125	Electrochemically grafted polypyrrole changes photoluminescence of electronic states inside nanocrystalline diamond. Journal of Applied Physics, 2014, 116, 223103.	2.5	10
126	Electrical characterization of diamond films deposited in nitrogen and oxygen containing gas mixture., 2014, , .		0

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127	Influence of non-diamond carbon phase on recombination mechanisms of photoexcited charge carriers in microcrystalline and nanocrystalline diamond studied by time resolved photoluminescence spectroscopy. <i>Optical Materials Express</i> , 2014, 4, 624.	3.0	19
128	Si-related color centers in nanocrystalline diamond thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2603-2606.	1.5	6
129	Growth of carbon allotropes and plasma characterization in linear antenna microwave plasma CVD system. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FP04.	1.5	2
130	Poly lactide nanofibers with hydroxyapatite as growth substrates for osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3918-3930.	4.0	36
131	Bone cells in cultures on nanocarbon-based materials for potential bone tissue engineering: A review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2688-2702.	1.8	36
132	Silicon nanocrystals and nanodiamonds in live cells: photoluminescence characteristics, cytotoxicity and interaction with cell cytoskeleton. <i>RSC Advances</i> , 2014, 4, 10334-10342.	3.6	15
133	Selective area deposition of diamond films on AlGaN/GaN heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2574-2580.	1.5	15
134	Sensitivity of bacteria to diamond nanoparticles of various size differs in gram-positive and gram-negative cells. <i>FEMS Microbiology Letters</i> , 2014, 351, 179-186.	1.8	44
135	Surface potential of diamond and gold nanoparticles can be locally switched by surrounding materials or applied voltage. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	10
136	Nanostructured Diamond Layers Enhance the Infrared Spectroscopy of Biomolecules. <i>Langmuir</i> , 2014, 30, 2054-2060.	3.5	11
137	Fabrication of free-standing pure carbon-based composite material with the combination of sp <sup>2</sup> and sp <sup>3</sup> hybridizations. <i>Applied Surface Science</i> , 2014, 308, 211-215.	6.1	3
138	Transformation of polymer composite nanofibers to diamond fibers and films by microwave plasma-enhanced CVD process. <i>Applied Surface Science</i> , 2014, 312, 188-191.	6.1	7
139	Structural and electrical characterization of diamond films deposited in nitrogen/oxygen containing gas mixture by linear antenna microwave CVD process. <i>Applied Surface Science</i> , 2014, 312, 226-230.	6.1	11
140	Diamond growth on copper rods from polymer composite nanofibres. <i>Applied Surface Science</i> , 2014, 312, 220-225.	6.1	9
141	Carbon nanotubes overgrown and ingrown with nanocrystalline diamond deposited by different CVD plasma systems. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2413-2419.	1.5	6
142	Optically transparent diamond-PDMS microfluidic system for electronic monitoring of cells. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2593-2598.	1.5	7
143	CHAPTER 13. Low Temperature Diamond Growth. <i>RSC Nanoscience and Nanotechnology</i> , 2014, , 290-342.	0.2	3
144	Growth Rate Enhancement and Morphology Engineering of Diamond Films by Adding CO <sub>2</sub> or N <sub>2</sub> in Hydrogen Rich Gas Chemistry. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 749-755.	0.3	5

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145	Surface Treatment of Diamond Films Grown on Glass by Different Microwave Plasma Systems. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 802-808.	0.3	5
146	Mask-Free Surface Structuring of Micro- and Nanocrystalline Diamond Films by Reactive Ion Plasma Etching. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 780-784.	0.3	2
147	Chemical modifications and stability of diamond nanoparticles resolved by infrared spectroscopy and Kelvin force microscopy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	31
148	Two-dimensional photonic crystal slab with embedded silicon nanocrystals: Efficient photoluminescence extraction. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	10
149	Sensing of phosgene by a porous-like nanocrystalline diamond layer with buried metallic electrodes. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 675-680.	7.8	18
150	Nanoparticles Assume Electrical Potential According to Substrate, Size, and Surface Termination. <i>Langmuir</i> , 2013, 29, 1634-1641.	3.5	41
151	Diamond-coated ATR prism for infrared absorption spectroscopy of surface-modified diamond nanoparticles. <i>Applied Surface Science</i> , 2013, 270, 411-417.	6.1	17
152	Controlling Electrostatic Charging of Nanocrystalline Diamond at Nanoscale. <i>Langmuir</i> , 2013, 29, 7111-7117.	3.5	6
153	Polydopamine-modified nanocrystalline diamond thin films as a platform for bio-sensing applications. <i>Thin Solid Films</i> , 2013, 543, 180-186.	1.8	32
154	Enhanced spontaneous nucleation of diamond nuclei in hot and cold microwave plasma systems. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2753-2758.	1.5	10
155	Design and investigation of properties of nanocrystalline diamond optical planar waveguides. <i>Optics Express</i> , 2013, 21, 8417.	3.4	22
156	Coherent phonon dynamics in micro- and nanocrystalline diamond. <i>Optics Express</i> , 2013, 21, 31521.	3.4	17
157	Diamond nucleation and seeding techniques for tissue regeneration. , 2013, , 206-255.		6
158	Perspectives of linear antenna microwave system for growth of various carbon nano-forms and its plasma study. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2723-2726.	1.5	16
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