

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
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294
all docs

294
docs citations

294
times ranked

5430
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein-modified nanocrystalline diamond thin films for biosensor applications. <i>Nature Materials</i> , 2004, 3, 736-742.	27.5	495
2	C sp ² /sp ³ hybridisations in carbon nanomaterials – XPS and (X)AES study. <i>Applied Surface Science</i> , 2018, 452, 223-231.	6.1	316
3	Diamond/carbon nanotube composites: Raman, FTIR and XPS spectroscopic studies. <i>Carbon</i> , 2017, 111, 54-61.	10.3	247
4	Size and Purity Control of HPHT Nanodiamonds down to 1 nm. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27708-27720.	3.1	144
5	Optical properties of nanocrystalline diamond thin films. <i>Applied Physics Letters</i> , 2006, 88, 101908.	3.3	95
6	Linear antenna microwave plasma CVD deposition of diamond films over large areas. <i>Vacuum</i> , 2012, 86, 776-779.	3.5	89
7	Improved adhesion and growth of human osteoblast-like MG 63 cells on biomaterials modified with carbon nanoparticles. <i>Diamond and Related Materials</i> , 2007, 16, 2133-2140.	3.9	87
8	Nanoscale topography of nanocrystalline diamonds promotes differentiation of osteoblasts. <i>Acta Biomaterialia</i> , 2009, 5, 3076-3085.	8.3	85
9	Formation of Continuous Nanocrystalline Diamond Layers on Glass and Silicon at Low Temperatures. <i>Chemical Vapor Deposition</i> , 2008, 14, 181-186.	1.3	77
10	Micro-Pattern Guided Adhesion of Osteoblasts on Diamond Surfaces. <i>Sensors</i> , 2009, 9, 3549-3562.	3.8	72
11	Enhanced Growth and Osteogenic Differentiation of Human Osteoblast-Like Cells on Boron-Doped Nanocrystalline Diamond Thin Films. <i>PLoS ONE</i> , 2011, 6, e20943.	2.5	70
12	Nanodiamond as Promising Material for Bone Tissue Engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3524-3534.	0.9	69
13	High-yield fabrication and properties of 1.4%nm nanodiamonds with narrow size distribution. <i>Scientific Reports</i> , 2016, 6, 38419.	3.3	63
14	The effect of SWCNT and nano-diamond films on human osteoblast cells. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4356-4359.	1.5	57
15	Thiol-yne Reaction on Boron-Doped Diamond Electrodes: Application for the Electrochemical Detection of DNA-DNA Hybridization Events. <i>Analytical Chemistry</i> , 2012, 84, 194-200.	6.5	55
16	Ultrathin Nanocrystalline Diamond Films with Silicon Vacancy Color Centers via Seeding by 2 nm Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38842-38853.	8.0	52
17	Investigation of nanocrystalline diamond films grown on silicon and glass at substrate temperature below 400°C. <i>Diamond and Related Materials</i> , 2007, 16, 744-747.	3.9	51
18	Immobilization of horseradish peroxidase via an amino silane on oxidized ultrananocrystalline diamond. <i>Diamond and Related Materials</i> , 2007, 16, 138-143.	3.9	50

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19	Nanofibrous poly(lactide-co-glycolide) membranes loaded with diamond nanoparticles as promising substrates for bone tissue engineering. <i>International Journal of Nanomedicine</i> , 2012, 7, 1931.	6.7	50
20	Nanomolar Hydrogen Peroxide Detection Using Horseradish Peroxidase Covalently Linked to Undoped Nanocrystalline Diamond Surfaces. <i>Langmuir</i> , 2012, 28, 587-592.	3.5	48
21	Bone and vascular endothelial cells in cultures on nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2008, 17, 1405-1409.	3.9	47
22	Growth of nanocrystalline diamond films deposited by microwave plasma CVD system at low substrate temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3011-3015.	1.8	45
23	Low temperature diamond growth by linear antenna plasma CVD over large area. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2600-2603.	1.5	44
24	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
25	Early stage of diamond growth at low temperature. <i>Diamond and Related Materials</i> , 2008, 17, 1252-1255.	3.9	41
26	Nanoparticles Assume Electrical Potential According to Substrate, Size, and Surface Termination. <i>Langmuir</i> , 2013, 29, 1634-1641.	3.5	41
27	Osteogenic cell differentiation on H-terminated and O-terminated nanocrystalline diamond films. <i>International Journal of Nanomedicine</i> , 2015, 10, 869.	6.7	41
28	Development of Composite Poly(Lactide-<i>co</i>-Glycolide)-Nanodiamond Scaffolds for Bone Cell Growth. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1060-1069.	0.9	38
29	Covalent Diamond-Graphite Bonding: Mechanism of Catalytic Transformation. <i>ACS Nano</i> , 2019, 13, 4621-4630.	14.6	38
30	Effects of protein inter-layers on cell-diamond FET characteristics. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1307-1312.	10.1	37
31	Adhesion of osteoblasts on chemically patterned nanocrystalline diamonds. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2124-2127.	1.5	36
32	Selective detection of phosgene by nanocrystalline diamond layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2070-2073.	1.8	36
33	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
34	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
35	Antibacterial behavior of diamond nanoparticles against <i>Escherichia coli</i> . <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2581-2584.	1.5	35
36	Inhibition of E. coli Growth by Nanodiamond and Graphene Oxide Enhanced by Luria-Bertani Medium. <i>Nanomaterials</i> , 2018, 8, 140.	4.1	35

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37	Identification of carbon phases and analysis of diamond/substrate interfaces by Raman spectroscopy. Carbon, 2005, 43, 425-429.	10.3	34
38	Adsorption of fetal bovine serum on H/O-terminated diamond studied by atomic force microscopy. Diamond and Related Materials, 2009, 18, 918-922.	3.9	34
39	Diamond film coated on WC/Co tools by double bias-assisted hot filament CVD. Current Applied Physics, 2002, 2, 201-204.	2.4	33
40	Spectroscopic studies of nanocrystalline diamond materials. Diamond and Related Materials, 2007, 16, 1463-1470.	3.9	32
41	Photovoltage effects in polypyrrole-diamond nanosystem. Diamond and Related Materials, 2009, 18, 249-252.	3.9	32
42	Polydopamine-modified nanocrystalline diamond thin films as a platform for bio-sensing applications. Thin Solid Films, 2013, 543, 180-186.	1.8	32
43	Chemical modifications and stability of diamond nanoparticles resolved by infrared spectroscopy and Kelvin force microscopy. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	31
44	Effect of Nanodiamond Particles on Properties of Epoxy Composites. Advanced Composites Letters, 2008, 17, 096369350801700.	1.3	30
45	Gas sensing properties of nanocrystalline diamond films. Diamond and Related Materials, 2010, 19, 196-200.	3.9	30
46	Long-term adsorption of fetal bovine serum on H/O-terminated diamond studied <i>in situ</i> by atomic force microscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 2832-2835.	1.5	29
47	Detecting sp ² phase on diamond surfaces by atomic force microscopy phase imaging and its effects on surface conductivity. Diamond and Related Materials, 2009, 18, 722-725.	3.9	27
48	Nanocarbon Allotropes-Graphene and Nanocrystalline Diamond-Promote Cell Proliferation. Small, 2016, 12, 2499-2509.	10.0	27
49	Gas-sensing behaviour of ZnO/diamond nanostructures. Beilstein Journal of Nanotechnology, 2018, 9, 22-29.	2.8	27
50	Voltammetric characterization of boron-doped diamond electrodes for electroanalytical applications. Journal of Electroanalytical Chemistry, 2020, 862, 114020.	3.8	27
51	Molecular markers of adhesion, maturation and immune activation of human osteoblast-like MC 63 cells on nanocrystalline diamond films. Diamond and Related Materials, 2009, 18, 258-263.	3.9	26
52	Effective Extraction of Photoluminescence from a Diamond Layer with a Photonic Crystal. ACS Nano, 2011, 5, 346-350.	14.6	26
53	Comparative study on dry etching of polycrystalline diamond thin films. Vacuum, 2012, 86, 799-802.	3.5	26
54	Diamond Seeding and Growth of Hierarchically Structured Films for Tissue Engineering. Advanced Engineering Materials, 2009, 11, B71.	3.5	25

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55	Semiconducting to metallic-like boron doping of nanocrystalline diamond films and its effect on osteoblastic cells. <i>Diamond and Related Materials</i> , 2010, 19, 190-195.	3.9	25
56	Controlled oxygen plasma treatment of single-walled carbon nanotube films improves osteoblastic cells attachment and enhances their proliferation. <i>Carbon</i> , 2011, 49, 2926-2934.	10.3	25
57	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
58	Investigation of diamond growth at high pressure by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2004, 13, 604-609.	3.9	24
59	Seeding of polymer substrates for nanocrystalline diamond film growth. <i>Diamond and Related Materials</i> , 2009, 18, 734-739.	3.9	24
60	Synthesis, structure, and opto-electronic properties of organic-based nanoscale heterojunctions. <i>Nanoscale Research Letters</i> , 2011, 6, 238.	5.7	24
61	Transport properties of hydrogen-terminated nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2012, 24, 63-68.	3.9	24
62	Electron Spectra Line Shape Analysis of Highly Oriented Pyrolytic Graphite and Nanocrystalline Diamond. <i>Analytical Sciences</i> , 2010, 26, 217-222.	1.6	23
63	H-terminated diamond as optically transparent impedance sensor for real-time monitoring of cell growth. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2741-2746.	1.5	23
64	Preparation and optical properties of nanocrystalline diamond coatings for infrared planar waveguides. <i>Thin Solid Films</i> , 2016, 618, 130-133.	1.8	23
65	Design and fabrication of piezoresistive strain gauges based on nanocrystalline diamond layers. <i>Vacuum</i> , 2012, 86, 689-692.	3.5	22
66	Design and investigation of properties of nanocrystalline diamond optical planar waveguides. <i>Optics Express</i> , 2013, 21, 8417.	3.4	22
67	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
68	Diamond-like carbon thin films for high-temperature applications prepared by filtered pulsed laser deposition. <i>Vacuum</i> , 2005, 80, 163-167.	3.5	21
69	The RF plasma surface chemical modification of nanodiamond films grown on glass and silicon at low temperature. <i>Diamond and Related Materials</i> , 2007, 16, 671-674.	3.9	21
70	Fabrication of diamond nanorods for gas sensing applications. <i>Applied Surface Science</i> , 2010, 256, 5602-5605.	6.1	21
71	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
72	Toward surface-friendly treatment of seeding layer and selected-area diamond growth. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 3026-3029.	1.5	20

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73	Linear antenna microwave plasma CVD diamond deposition at the edge of noâ€growth region of Cî;Hî;O ternary diagram. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2612-2615.	1.5	20
74	Function of thin film nanocrystalline diamondâ€protein SGFET independent of grain size. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 239-245.	7.8	20
75	Gas sensing properties of nanocrystalline diamond at room temperature. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2339-2345.	2.8	20
76	Amination of NCD Films for Possible Application in Biosensing. <i>Plasma Processes and Polymers</i> , 2015, 12, 336-346.	3.0	20
77	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
78	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
79	Strong influence of hierarchically structured diamond nanotopography on adhesion of human osteoblasts and mesenchymal cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2038-2041.	1.8	19
80	Electrochemical synthesis and electronic properties of polypyrrole on intrinsic diamond. <i>Diamond and Related Materials</i> , 2009, 18, 1098-1101.	3.9	19
81	Diamond photonic crystal slab: Leaky modes and modified photoluminescence emission of surface-deposited quantum dots. <i>Scientific Reports</i> , 2012, 2, 914.	3.3	19
82	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
83	Bacterial response to nanodiamonds and graphene oxide sheets. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2481-2485.	1.5	19
84	Carbide-free one-zone sulfurization method grows thin MoS ₂ layers on polycrystalline CVD diamond. <i>Scientific Reports</i> , 2019, 9, 2001.	3.3	19
85	Study on cellular adhesion of human osteoblasts on nanoâ€structured diamond films. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2774-2777.	1.5	18
86	Nanocrystalline diamond piezoresistive sensor. <i>Vacuum</i> , 2009, 84, 53-56.	3.5	18
87	Assembly of osteoblastic cell micro-arrays on diamond guided by protein pre-adsorption. <i>Diamond and Related Materials</i> , 2010, 19, 153-157.	3.9	18
88	Optical study of defects in nanoâ€diamond films grown in linear antenna microwave plasma CVD from H ₂ /CH ₄ /CO ₂ gas mixture. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2635-2639.	1.5	18
89	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
90	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

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91	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
92	Nanosphere Lithography for Structuring Polycrystalline Diamond Films. <i>Crystals</i> , 2020, 10, 118.	2.2	18
93	Enhancing nanocrystalline diamond surface conductivity by deposition temperature and chemical post-processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 276-280.	1.8	17
94	Role of polymers in CVD growth of nanocrystalline diamond films on foreign substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2654-2657.	1.5	17
95	Simplified procedure for patterned growth of nanocrystalline diamond micro-structures. <i>Thin Solid Films</i> , 2009, 518, 343-347.	1.8	17
96	High optical quality nanocrystalline diamond with reduced non-diamond contamination. <i>Diamond and Related Materials</i> , 2010, 19, 453-456.	3.9	17
97	ZnO hedgehog-like structures for control cell cultivation. <i>Applied Surface Science</i> , 2012, 258, 3485-3489.	6.1	17
98	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
99	Coherent phonon dynamics in micro- and nanocrystalline diamond. <i>Optics Express</i> , 2013, 21, 31521.	3.4	17
100	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
101	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
102	Directly Grown Nanocrystalline Diamond Field-Effect Transistor Microstructures. <i>Sensor Letters</i> , 2010, 8, 482-487.	0.4	17
103	Structural, optical, and electronic properties of nanocrystalline and ultrananocrystalline diamond thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2874-2880.	1.8	16
104	Novel plasma treatment in linear antenna microwave PECVD system. <i>Vacuum</i> , 2012, 86, 603-607.	3.5	16
105	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
106	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
107	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
108	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

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109	Selective area deposition of diamond films on AlGaIn/GaN heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2574-2580.	1.5	15
110	Templated diamond growth on porous carbon foam decorated with polyvinyl alcohol-nanodiamond composite. <i>Carbon</i> , 2017, 119, 124-132.	10.3	15
111	Structured and graphitized boron doped diamond electrodes: Impact on electrochemical detection of Cd ²⁺ and Pb ²⁺ ions. <i>Vacuum</i> , 2019, 170, 108953.	3.5	15
112	Electrical characterization of locally charged oxidized nanocrystalline diamond films by Kelvin force microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2136-2140.	1.8	14
113	The infrared optical absorption spectra of the functionalized nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2009, 18, 772-775.	3.9	14
114	Enhanced photoluminescence extraction efficiency from a diamond photonic crystal via leaky modes. <i>New Journal of Physics</i> , 2011, 13, 063005.	2.9	14
115	Investigation of residual stress in structured diamond films grown on silicon. <i>Thin Solid Films</i> , 2015, 589, 857-863.	1.8	14
116	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
117	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
118	Silicon nanocrystal-based photonic crystal slabs with broadband and efficient directional light emission. <i>Scientific Reports</i> , 2017, 7, 5763.	3.3	14
119	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
120	Microsphere lithography for scalable polycrystalline diamond-based near-infrared photonic crystals fabrication. <i>Materials and Design</i> , 2018, 139, 363-371.	7.0	14
121	Electron affinity of undoped and boron-doped polycrystalline diamond films. <i>Diamond and Related Materials</i> , 2018, 87, 208-214.	3.9	14
122	Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , 2020, 171, 108957.	3.5	14
123	Flexoelectricity in polycrystalline TiO ₂ thin films. <i>Acta Materialia</i> , 2020, 190, 124-129.	7.9	14
124	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
125	Fabrication of nano-structured diamond films for SAOS cell cultivation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2033-2037.	1.8	13
126	Grazing angle reflectance spectroscopy of organic monolayers on nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2011, 20, 882-885.	3.9	13

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127	Guided assembly of nanoparticles on electrostatically charged nanocrystalline diamond thin films. <i>Nanoscale Research Letters</i> , 2011, 6, 144.	5.7	13
128	Temperature enhanced gas sensing properties of diamond films. <i>Vacuum</i> , 2012, 86, 599-602.	3.5	13
129	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
130	Plasma treatment of detonation and HPHT nanodiamonds in diffuse coplanar surface barrier discharge in H ₂ /N ₂ flow. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2680-2686.	1.8	13
131	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
132	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
133	Preparation and characterization of alumina submicron fibers by plasma assisted calcination. <i>Ceramics International</i> , 2020, 46, 22774-22780.	4.8	13
134	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
135	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
136	Ultrafast photoluminescence of nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2154-2157.	1.8	12
137	Laser-induced refractive index changes in nanocrystalline diamond membranes. <i>Optics Letters</i> , 2010, 35, 577.	3.3	12
138	Optimizing atomic force microscopy for characterization of diamond-protein interfaces. <i>Nanoscale Research Letters</i> , 2011, 6, 337.	5.7	12
139	Deposition of nanocrystalline diamond films on temperature sensitive substrates for infrared reflectance spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2736-2739.	1.5	12
140	HFCVD growth of various carbon nanostructures on SWCNT paper controlled by surface treatment. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2399-2403.	1.5	12
141	Influence of surface wave plasma deposition conditions on diamond growth regime. <i>Surface and Coatings Technology</i> , 2015, 271, 74-79.	4.8	12
142	Osteoblastic cells trigger gate currents on nanocrystalline diamond transistor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 129, 95-99.	5.0	12
143	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
144	Ultrafast dynamics of photoexcited charge carriers in nanocrystalline diamond. <i>Applied Physics Letters</i> , 2008, 93, 083102.	3.3	11

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145	Nanostructuring of diamond films using self-assembled nanoparticles. <i>Open Physics</i> , 2009, 7, .	1.7	11
146	Study of diamond film nucleation by ultrasonic seeding in different solutions. <i>Open Physics</i> , 2012, 10, .	1.7	11
147	Direct growth of sub-micron diamond structures. <i>Vacuum</i> , 2012, 86, 693-695.	3.5	11
148	Nanostructured Diamond Layers Enhance the Infrared Spectroscopy of Biomolecules. <i>Langmuir</i> , 2014, 30, 2054-2060.	3.5	11
149	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
150	Ferromagnetism appears in nitrogen implanted nanocrystalline diamond films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 477-480.	2.3	11
151	Polymer-based nucleation for chemical vapour deposition of diamond. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	11
152	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
153	Silicon-Vacancy Centers in Ultra-Thin Nanocrystalline Diamond Films. <i>Micromachines</i> , 2018, 9, 281.	2.9	11
154	Comparison of diamond nucleation in DC and AC substrate bias mode. <i>Thin Solid Films</i> , 2003, 433, 73-77.	1.8	10
155	Sensitivity of Diamond-Capped Impedance Transducer to Trifluoromethyls Base Derivative. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3860-3865.	8.0	10
156	Two-dimensional photonic crystal slab with embedded silicon nanocrystals: Efficient photoluminescence extraction. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	10
157	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
158	Fabrication of periodically ordered diamond nanostructures by microsphere lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2587-2592.	1.5	10
159	Electrochemically grafted polypyrrole changes photoluminescence of electronic states inside nanocrystalline diamond. <i>Journal of Applied Physics</i> , 2014, 116, 223103.	2.5	10
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