

# Å arÅ«nas MeÅ;kinis

## List of Publications by Year in descending order

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docs citations

88  
times ranked

917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamond Like Carbon Films Containing Si: Structure and Nonlinear Optical Properties. <i>Materials</i> , 2020, 13, 1003.	2.9	67
2	Diamond like carbon nanocomposites with embedded metallic nanoparticles. <i>Reports on Progress in Physics</i> , 2018, 81, 024501.	20.1	45
3	Ion beam synthesis of the diamond like carbon films for nanoimprint lithography applications. <i>Thin Solid Films</i> , 2006, 515, 636-639.	1.8	39
4	Annealing Effects on Structure and Optical Properties of Diamond-Like Carbon Films Containing Silver. <i>Nanoscale Research Letters</i> , 2016, 11, 146.	5.7	37
5	Hydrophobic properties of the ion beam deposited DLC films containing SiOx. <i>Thin Solid Films</i> , 2007, 515, 7615-7618.	1.8	34
6	Synthesis of the silicon and silicon oxide doped a-C:H films from hexamethyldisiloxane vapor by DC ion beam. <i>Surface and Coatings Technology</i> , 2006, 200, 6240-6244.	4.8	33
7	XPS study of the ultrathin a-C:H films deposited onto ion beam nitrated AISI 316 steel. <i>Applied Surface Science</i> , 2005, 249, 295-302.	6.1	28
8	Bias effects on structure and piezoresistive properties of DLC:Ag thin films. <i>Surface and Coatings Technology</i> , 2014, 255, 84-89.	4.8	28
9	Optical properties of diamond like carbon films containing copper, grown by high power pulsed magnetron sputtering and direct current magnetron sputtering: Structure and composition effects. <i>Thin Solid Films</i> , 2015, 581, 48-53.	1.8	28
10	Plasmonic properties of silver nanoparticles embedded in diamond like carbon films: Influence of structure and composition. <i>Applied Surface Science</i> , 2014, 317, 1041-1046.	6.1	27
11	Nitrogen-doped twisted graphene grown on copper by atmospheric pressure CVD from a decane precursor. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 145-158.	2.8	25
12	Electrical and piezoresistive properties of ion beam deposited DLC films. <i>Applied Surface Science</i> , 2008, 254, 5252-5256.	6.1	24
13	Application of holographic sub-wavelength diffraction gratings for monitoring of kinetics of bioprocesses. <i>Applied Surface Science</i> , 2012, 258, 9292-9296.	6.1	22
14	Characterization of urea derived polymeric carbon nitride and resultant thermally vacuum deposited amorphous thin films: Structural, chemical and photophysical properties. <i>Carbon</i> , 2016, 107, 415-425.	10.3	22
15	Aluminium oxide film for 2D photonic structure: room temperature formation. <i>Optical Materials</i> , 2001, 17, 343-346.	3.6	21
16	Structure of the silver containing diamond like carbon films: Study by multiwavelength Raman spectroscopy and XRD. <i>Diamond and Related Materials</i> , 2013, 40, 32-37.	3.9	21
17	Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles. <i>Nanoscale Research Letters</i> , 2015, 10, 157.	5.7	21
18	Piezoresistive properties of amorphous carbon based nanocomposite thin films deposited by plasma assisted methods. <i>Thin Solid Films</i> , 2013, 538, 78-84.	1.8	20

#	ARTICLE	IF	CITATIONS
19	Structure, Properties and Applications of Diamond Like Nanocomposite (SiO <sub>x</sub> Containing DLC) Films: A Review. <i>Medziagotyra</i> , 2011, 17, .	0.2	19
20	Ion beam synthesis of $\hat{I}\pm$ -CN <sub>x</sub> :H films. <i>Surface and Coatings Technology</i> , 2002, 151-152, 180-183.	4.8	17
21	XPS study of the a-C:H/Ti and a-C:H/a-Si interfaces. <i>Vacuum</i> , 2006, 80, 1007-1011.	3.5	17
22	Effect of oxidation of copper nanoparticles on absorption spectra of DLC:Cu nanocomposites. <i>Diamond and Related Materials</i> , 2019, 99, 107538.	3.9	17
23	Radiation induced changes in amorphous hydrogenated DLC films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 152, 91-95.	3.5	16
24	Piezoresistive properties of diamond like carbon films containing copper. <i>Diamond and Related Materials</i> , 2015, 60, 20-25.	3.9	16
25	Diamond like carbon Ag nanocomposites as a control measure against <i>Campylobacter jejuni</i> and <i>Listeria monocytogenes</i> on food preparation surfaces. <i>Diamond and Related Materials</i> , 2018, 81, 118-126.	3.9	16
26	Structure and density profile of diamond-like carbon films containing copper: Study by X-ray reflectivity, transmission electron microscopy, and spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2017, 630, 48-58.	1.8	15
27	Mechanical properties of ion beam deposited carbon films. <i>Carbon</i> , 2004, 42, 1085-1088.	10.3	14
28	Linear and Nonlinear Absorption Properties of Diamond-Like Carbon Doped With Cu Nanoparticles. <i>Plasmonics</i> , 2017, 12, 47-58.	3.4	14
29	Piezoresistive, optical and electrical properties of diamond like carbon and carbon nitride films. <i>Diamond and Related Materials</i> , 2010, 19, 1249-1253.	3.9	13
30	Piezoresistive properties and structure of hydrogen-free DLC films deposited by DC and pulsed-DC unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2012, 211, 172-175.	4.8	13
31	Structuring of DLC:Ag nanocomposite thin films employing plasma chemical etching and ion sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 341, 1-6.	1.4	13
32	Catalyst-Less and Transfer-Less Synthesis of Graphene on Si(100) Using Direct Microwave Plasma Enhanced Chemical Vapor Deposition and Protective Enclosures. <i>Materials</i> , 2020, 13, 5630.	2.9	13
33	Replication technology for photonic band gap applications. <i>Optical Materials</i> , 2001, 17, 15-18.	3.6	12
34	Fabrication of photonic structures by means of interference lithography and reactive ion etching. <i>Applied Surface Science</i> , 2002, 186, 599-603.	6.1	12
35	Effects of low-energy ion beam glancing angle nitridation on nGaAs surface and Co«nGaAs Schottky contact properties. <i>Vacuum</i> , 2004, 77, 79-86.	3.5	12
36	Growth and properties of the ion beam deposited SiO <sub>x</sub> containing DLC films. <i>Vacuum</i> , 2009, 83, S121-S123.	3.5	12

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37	Refractive index sensor based on the diamond like carbon diffraction grating. Thin Solid Films, 2011, 519, 4082-4086.	1.8	12
38	Piezoresistive and electrical properties of Cr containing diamond-like carbon films. Surface and Coatings Technology, 2012, 211, 80-83.	4.8	12
39	Carrier gas and ion beam parameter effects on the structure and properties of a-C:H/SiOx films deposited employing closed drift ion beam source. Nuclear Instruments & Methods in Physics Research B, 2012, 282, 116-120.	1.4	12
40	Surface Enhanced Raman Scattering Effect in Diamond Like Carbon Films Containing Ag Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 10143-10151.	0.9	12
41	Photovoltaic Properties and Ultrafast Plasmon Relaxation Dynamics of Diamond-Like Carbon Nanocomposite Films with Embedded Ag Nanoparticles. Nanoscale Research Letters, 2017, 12, 288.	5.7	12
42	Giant Negative Piezoresistive Effect in Diamond-like Carbon and Diamond-like Carbon-Based Nickel Nanocomposite Films Deposited by Reactive Magnetron Sputtering of Ni Target. ACS Applied Materials & Interfaces, 2018, 10, 15778-15785.	8.0	12
43	Ion beam energy effects on structure and properties of diamond like carbon films deposited by closed drift ion source. Vacuum, 2010, 84, 1133-1137.	3.5	11
44	Structure and optical properties of diamond like carbon films containing aluminium and alumina. Applied Surface Science, 2020, 529, 147040.	6.1	11
45	Growth of ITO thin films by magnetron sputtering: OES study, optical and electrical properties. Vacuum, 2009, 83, S118-S120.	3.5	10
46	Surface morphology, cohesive and adhesive properties of amorphous hydrogenated carbon nanocomposite films. Applied Surface Science, 2013, 276, 543-549.	6.1	10
47	Ion beam energy effects on structure and properties of SiOx doped diamond-like carbon films. Surface and Coatings Technology, 2008, 202, 2328-2331.	4.8	9
48	SiOx-doped DLC films: Charge transport, dielectric properties and structure. Vacuum, 2008, 82, 617-622.	3.5	9
49	Multiwavelength Raman analysis of SiOx and N containing amorphous diamond like carbon films. Thin Solid Films, 2015, 581, 86-91.	1.8	9
50	The direct growth of planar and vertical graphene on Si(100) via microwave plasma chemical vapor deposition: synthesis conditions effects. RSC Advances, 2022, 12, 18759-18772.	3.6	9
51	XRD Analysis of Plasma Sprayed YSZ-NiO-Ni Ceramic Coatings. Plasma Processes and Polymers, 2007, 4, S181-S184.	3.0	8
52	Multilayer amorphous hydrogenated carbon (a-C:H) and SiOx doped a-C:H films for optical applications. Thin Solid Films, 2011, 519, 4004-4007.	1.8	8
53	Traps in GaAs detectors (before and after irradiation) and electric field redistribution in excited Si-GaAs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 395, 94-97.	1.6	7
54	Direct ion beam deposited carbon films and clusters. Vacuum, 2003, 72, 193-198.	3.5	7

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55	Effects of the High Power Pulsed Magnetron Sputtering Deposition Conditions on Structure of Diamond Like Carbon:Cu Films. Journal of Nanoscience and Nanotechnology, 2016, 16, 10133-10142.	0.9	7
56	Self-Saturable Absorption and Reverse-Saturable Absorption Effects in Diamond-Like Carbon Films with Embedded Copper Nanoparticles. Coatings, 2019, 9, 100.	2.6	7
57	Transient absorption spectroscopy as a promising optical tool for the quality evaluation of graphene layers deposited by microwave plasma. Surface and Coatings Technology, 2020, 395, 125887.	4.8	7
58	Ultrafast relaxation dynamics of aluminum nanoparticles in solution. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113795.	2.7	6
59	Direct synthesis of graphene on silicon by reactive magnetron sputtering deposition. Surface and Coatings Technology, 2022, 437, 128361.	4.8	6
60	The Influence of Annealing on Current-Voltage Characteristics of H <sub>2</sub> SeO <sub>3</sub> Treated Al-nGaAs Schottky Contact. Physica Status Solidi A, 2000, 180, 499-505.	1.7	5
61	Influence of Plasma Transferred Arc Process Parameters on Structure and Mechanical Properties of Wear Resistive NiCrBSi-WC/Co Coatings. Medziagotyra, 2011, 17, 140-144.	0.2	5
62	The Graphene Structure's Effects on the Current-Voltage and Photovoltaic Characteristics of Directly Synthesized Graphene/n-Si(100) Diodes. Nanomaterials, 2022, 12, 1640.	4.1	5
63	Effects of selenious acid treatment on GaAs Schottky contacts. Semiconductor Science and Technology, 1999, 14, 168-172.	2.0	4
64	Optical properties of the undoped and SiO <sub>2</sub> doped DLC films. , 2006, , .		4
65	Electrical properties of the diamond like carbon films irradiated with high energy photons. Journal of Physics: Conference Series, 2008, 100, 072036.	0.4	4
66	Ion beam deposition of amorphous hydrogenated carbon films on amorphous silicon interlayer: Experiment and simulation. Diamond and Related Materials, 2011, 20, 693-702.	3.9	4
67	Multiwavelength Raman Scattering Spectroscopy Study of Graphene Synthesized on Si(100) and SiO <sub>2</sub> by Microwave Plasma-Enhanced Chemical Vapor Deposition. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900462.	2.4	4
68	Hydrogen-Free Diamond Like Carbon Films with Embedded Cu Nanoparticles: Structure, Composition and Reverse Saturable Absorption Effect. Materials, 2020, 13, 760.	2.9	4
69	Reduction of effective barrier height and low-frequency noise of Al-GaAs Schottky contacts by hydrocarbon ion beam irradiation. Solid-State Electronics, 2003, 47, 1713-1718.	1.4	3
70	Plasmonic Properties of Nanostructured Diamond Like Carbon/Silver Nanocomposite Films with Nanohole Arrays. Medziagotyra, 2016, 22, .	0.2	3
71	Diamond like carbon films with embedded Cu nanoclusters deposited by reactive high power impulse magnetron sputtering: Pulse length effects. Thin Solid Films, 2019, 673, 1-6.	1.8	3
72	Optical properties of diamond like carbon and diamond like nanocomposite films. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2817-2819.	0.8	2

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73	Modulation of monochromatic terahertz radiation in transmission and reflection modes using planar metamaterial. Electronics Letters, 2011, 47, 503.	1.0	2
74	Dynamic optical properties of amorphous diamond-like carbon nanocomposite films doped with Cu and Ag nanoparticles. Proceedings of SPIE, 2014, , .	0.8	2
75	<title>alpha-C:H films for photonic structure fabrication</title>. , 2001, , .		2
76	The evolution of properties with deposition time of vertical graphene nanosheets produced by microwave plasma-enhanced chemical vapor deposition. Surfaces and Interfaces, 2021, 27, 101529.	3.0	2
77	Low resistance AlGaAs ohmic contacts. Semiconductor Science and Technology, 2002, 17, 907-910.	2.0	1
78	Photoluminescence and XPS Study of Selenium Treated Porous Silicon. , 2005, , 371-374.		1
79	Optical properties of diamond-like carbon films irradiated by X-ray photons. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3414-3416.	0.8	1
80	Low energy X-ray radiation impact on coated Si constructions. Radiation Physics and Chemistry, 2010, 79, 1031-1038.	2.8	1
81	Optical Properties of DLC:SiOx and Ag Multilayer Films: Surface Plasmon Resonance Effect. Medziagotyra, 2016, 22, .	0.2	1
82	Electrical transport properties of a carbon nanostructure obtained by plasma-enhanced chemical vapor deposition during thermal cycling. Journal of the Belarusian State University Physics, 2020, , 89-96.	0.2	1
83	<title>Al-nGaAs ohmic contact formation by H2SeO3 treatment and annealing</title>. , 2001, , .		0
84	Diamond like Carbon Films: Growth and Characterization. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 225-240.	0.3	0
85	Current-Voltage Characteristics of the Metal / Organic Semiconductor / Metal Structures: Top and Bottom Contact Configuration Case. Medziagotyra, 2013, 19, .	0.2	0
86	Cobalt-Activated Transfer-Free Synthesis of the Graphene on Si(100) by Anode Layer Ion Source. Processes, 2022, 10, 272.	2.8	0
87	Structural and Chemical Peculiarities of Nitrogen-Doped Graphene Grown Using Direct Microwave Plasma-Enhanced Chemical Vapor Deposition. Coatings, 2022, 12, 572.	2.6	0