

Diamond-like amorphous carbon

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Nanoporosity in plasma deposited amorphous carbon films investigated by small-angle X-ray scattering. <i>Diamond and Related Materials</i> , 2002, 11, 1946-1951.	1.8	11
2	Nanoindentation and AFM studies of PECVD DLC and reactively sputtered Ti containing carbon films. <i>Bulletin of Materials Science</i> , 2003, 26, 585-591.	0.8	19
3	Electrochemical properties of diamond-like carbon electrodes prepared by the pulsed laser deposition method. <i>Journal of Solid State Electrochemistry</i> , 2003, 7, 421-434.	1.2	7
4	Haemocompatibility of hydrogenated amorphous carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 206, 721-725.	0.6	22
5	Correlations between substrate bias, microstructure and surface morphology of tetrahedral amorphous carbon films. <i>Vacuum</i> , 2003, 72, 285-290.	1.6	23
6	Studies of pulsed high-current arcs used to prepare carbon films. <i>Thin Solid Films</i> , 2003, 433, 50-56.	0.8	4
7	Mechanical properties and platelet adhesion behavior of diamond-like carbon films synthesized by pulsed vacuum arc plasma deposition. <i>Surface Science</i> , 2003, 531, 177-184.	0.8	65
8	Carbon-containing Ti-C:H and Cr-C:H PVD hard coatings. <i>Vacuum</i> , 2003, 71, 261-265.	1.6	16
9	Direct ion beam deposited carbon films and clusters. <i>Vacuum</i> , 2003, 72, 193-198.	1.6	7
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11	Investigations of the coefficient of static friction diamond-like carbon films. <i>Surface and Coatings Technology</i> , 2003, 174-175, 421-426.	2.2	8
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13	Requirements of ultrathin carbon coatings for magnetic storage technology. <i>Tribology International</i> , 2003, 36, 405-415.	3.0	104
14	Temperature dependence of interface barrier height change as implicated by field emission studies of aligned-multiwall carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 309, 114-120.	0.9	17
15	Optical gap in carbon nitride films. <i>Thin Solid Films</i> , 2003, 433, 119-125.	0.8	66
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20	Electronic structure of pulsed laser deposited carbon thin films monitored by photoluminescence. <i>Diamond and Related Materials</i> , 2003, 12, 911-916.	1.8	1
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1795	Influence of Ti target current on microstructure and properties of Ti-doped graphite-like carbon films. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 1372-1380.	1.7	8
1796	Carbon and Nickel Oxide/Carbon Composites as Electrodes for Supercapacitors. <i>Journal of Materials Science and Technology</i> , 2012, 28, 931-936.	5.6	24
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1802	Molecular dynamics simulation of hydrogenated carbon film growth from CH radicals. <i>Applied Surface Science</i> , 2012, 263, 339-344.	3.1	8
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1804	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.	2.2	13
1805	Relationship between tribological properties and sp ³ /sp ² structure of nitrogenated diamond-like carbon deposited by plasma CVD. <i>Surface and Coatings Technology</i> , 2012, 210, 1-9.	2.2	39
1806	Classification of DLC films in terms of biological response. <i>Surface and Coatings Technology</i> , 2012, 207, 350-354.	2.2	37
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1808	Structure and mechanical properties of diamond-like carbon films with copper functional layer by cathode arc evaporation. <i>Surface and Coatings Technology</i> , 2012, 208, 101-108.	2.2	20
1809	High rate deposition of amorphous hydrogenated carbon films by hollow cathode arc PECVD. <i>Surface and Coatings Technology</i> , 2012, 212, 67-71.	2.2	12

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1952	Tribological performance of DLC coatings deposited by ion beam deposition under dry friction and oil lubricated conditions. Vacuum, 2013, 94, 14-18.	1.6	18
1953	Gas barrier properties of hydrogenated amorphous carbon films coated on polyethylene terephthalate by plasma polymerization in argon/n-hexane gas mixture. Thin Solid Films, 2013, 540, 65-68.	0.8	10
1954	Effect of atomic bonding configuration on optical properties of a-Si1-xCx:H thin film. Journal of Alloys and Compounds, 2013, 559, 20-23.	2.8	3

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1956	Characterization of temperature-induced changes in amorphous hydrogenated carbon thin films. <i>Diamond and Related Materials</i> , 2013, 37, 97-103.	1.8	19
1957	Influence of inert gases on the reactive high power pulsed magnetron sputtering process of carbon-nitride thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, .	0.9	18
1958	Controlling the luminescence emission from palladium grafted graphene oxide thin films via reduction. <i>Nanoscale</i> , 2013, 5, 5620.	2.8	30
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1960	An overview on diamond-like carbon coatings in medical applications. <i>Surface and Coatings Technology</i> , 2013, 233, 119-130.	2.2	175
1961	Wear behaviour of tetrahedral amorphous diamond-like carbon (ta-C DLC) in additive containing lubricants. <i>Wear</i> , 2013, 307, 1-9.	1.5	69
1962	Thickness dependency of the structure and laser irradiation stability of filtered cathodic vacuum arc grown carbon films for heat assisted magnetic recording overcoat. <i>Surface and Coatings Technology</i> , 2013, 236, 207-211.	2.2	3
1963	Formation of nanodiamonds at near-ambient conditions via microplasma dissociation of ethanol vapour. <i>Nature Communications</i> , 2013, 4, 2618.	5.8	155
1964	Preparation and properties of Ag/DLC nanocomposite films fabricated by unbalanced magnetron sputtering. <i>Applied Surface Science</i> , 2013, 284, 165-170.	3.1	109
1965	A simple SDS-assisted self-assembly method for the synthesis of hollow carbon nanospheres to encapsulate sulfur for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14306.	5.2	88
1966	Practical Method to Limit Tip-Sample Contact Stress and Prevent Wear in Amplitude Modulation Atomic Force Microscopy. <i>ACS Nano</i> , 2013, 7, 9836-9850.	7.3	29
1967	Influence of bias voltage on microstructure and properties of Al-containing diamond-like carbon films deposited by a hybrid ion beam system. <i>Surface and Coatings Technology</i> , 2013, 229, 217-221.	2.2	25
1968	Interpreting the effects of interfacial chemistry on the tribology of diamond-like carbon coatings against steel in distilled water. <i>Wear</i> , 2013, 302, 918-928.	1.5	19
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1971	Influence of W content on tribological performance of W-doped diamond-like carbon coatings under dry friction and polyalpha olefin lubrication conditions. <i>Materials & Design</i> , 2013, 51, 775-779.	5.1	36
1972	Electron field emission of iron and cobalt-doped DLC films fabricated by electrochemical deposition. <i>Surface and Interface Analysis</i> , 2013, 45, 943-948.	0.8	9

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1974	Polymeric amorphous carbon films with an extended range of optical gaps. <i>Diamond and Related Materials</i> , 2013, 37, 29-36.	1.8	7
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1977	Synthesis and characterization of CrCNâ€“DLC composite coatings by cathodic arc ion-plating. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 185-188.	0.6	13
1978	White light emission from polystyrene under pulsed ultra violet laser irradiation. <i>Scientific Reports</i> , 2013, 3, 3253.	1.6	19
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1980	Direct formation of amine functionality on DLC films and surface cyto-compatibility. <i>Diamond and Related Materials</i> , 2013, 38, 28-31.	1.8	5
1981	Implantation of xenon in amorphous carbon and silicon for brachytherapy application. <i>Applied Surface Science</i> , 2013, 275, 156-159.	3.1	3
1982	Development and application of cathodic vacuum arc plasma for nanostructured and nanocomposite film deposition. <i>Surface and Coatings Technology</i> , 2013, 229, 36-41.	2.2	10
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1989	Frictional and Optical Properties of Diamond-Like-Carbon Coatings on Polycarbonate. <i>Plasma Science and Technology</i> , 2013, 15, 690-695.	0.7	5
1990	Microstructure, mechanical and tribological properties of a-C/a-C:Ti nanomultilayer film. <i>Surface and Coatings Technology</i> , 2013, 232, 403-411.	2.2	28

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1996	Influence of thermal heating on diamond-like carbon film properties prepared by filtered cathodic arc. <i>Thin Solid Films</i> , 2013, 544, 477-481.	0.8	11
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2000	What makes a dangling bond a binding site for thermal CH ₃ radicals? A combined molecular dynamics and potential energy analysis study on amorphous hydrocarbon films. <i>Diamond and Related Materials</i> , 2013, 40, 41-50.	1.8	5
2001	Gradient titanium and silver based carbon coatings deposited on AISI316L. <i>Applied Surface Science</i> , 2013, 275, 303-310.	3.1	21
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2008	Simple chemical synthesis of porous carbon spheres and its improved field emission by water vapor adsorption. <i>Microporous and Mesoporous Materials</i> , 2013, 171, 201-207.	2.2	16

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2011	Effect of step biasing on diamond-like carbon films deposited by pulsed unbalanced magnetron sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1874-1880.	0.8	3
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2016	Novel ionic lubricants for amorphous carbon surfaces: molecular modeling of the structure and friction. <i>Soft Matter</i> , 2013, 9, 10606.	1.2	19
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2020	Dispersion of single-walled carbon nanotubes in alcohol-cholic acid mixtures. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 2068-2073.	0.1	13
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2024	Localized growth of materials from amorphous hydrogenated carbon by barrier-discharge treatment of benzene vapor-argon mixture. <i>High Energy Chemistry</i> , 2013, 47, 135-139.	0.2	1
2025	Graphitic domain layered titania nanotube arrays for separation and shuttling of solar-driven electrons. <i>Journal of Materials Chemistry A</i> , 2013, 1, 203-207.	5.2	7
2026	Influence of diamond-like carbon overlay properties on refractive index sensitivity of nano-coated optical fibres. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2100-2105.	0.8	29

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2031	Structural, surface, and thermomechanical properties of intrinsic and argon implanted tetrahedral amorphous carbon. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, .	0.9	7
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2033	Critical thickness of diamond-like carbon study using X-ray photoelectron spectroscopy depth profiling. , 2013, , .		0
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2035	Influence of electric field on laser damage properties of DLC films by unbalanced magnetron sputtering. <i>Applied Surface Science</i> , 2013, 265, 234-238.	3.1	6
2036	C/CrN multilayer coating for polymer electrolyte membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2013, 222, 351-358.	4.0	54
2037	A modified Tersoff potential for pure and hydrogenated diamond-like carbon. <i>Computational Materials Science</i> , 2013, 67, 146-150.	1.4	55
2038	Effects of Ar gas pressure on microstructure of DLC films deposited by high-power pulsed magnetron sputtering. <i>Vacuum</i> , 2013, 89, 261-266.	1.6	35
2039	Fabrication of barium/strontium carbonate coated amorphous carbon nanotubes as an improved field emitter. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 493-499.	1.1	12
2040	Solid lubricants: a review. <i>Journal of Materials Science</i> , 2013, 48, 511-531.	1.7	549
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2042	Experimental study of contamination and cleaning of in-vessel mirrors for ITER optical diagnostics on T-10 and QSPA-T facilities. <i>Journal of Nuclear Materials</i> , 2013, 438, S1160-S1163.	1.3	9
2043	Effects of radio-frequency powers on the properties of carbon coatings on optical fibers prepared by thermal chemical vapor deposition enhanced with inductively coupled plasma. <i>Vacuum</i> , 2013, 87, 141-144.	1.6	4
2044	Behavior of DLC coated low-alloy steel under tribological and corrosive load: Effect of top layer and interlayer variation. <i>Surface and Coatings Technology</i> , 2013, 215, 110-118.	2.2	30

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2047	Evaluation of the transformed layer of DLC coatings after sliding in oil using spectroscopic reflectometry. <i>Tribology International</i> , 2013, 65, 270-277.	3.0	17
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2049	Cell viability and adhesion on diamond-like carbon films containing titanium dioxide nanoparticles. <i>Applied Surface Science</i> , 2013, 266, 176-181.	3.1	31
2050	Broadband optical absorption of amorphous carbon/Ag nanocomposite films and its potential for solar harvesting applications. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 350-356.	3.0	38
2051	Comparison of arc evaporated Mo-based coatings versus Cr1N1 and ta€C coatings by reciprocating wear test. <i>Wear</i> , 2013, 298-299, 14-22.	1.5	18
2052	The effect of different radio-frequency powers on characteristics of amorphous boron carbon thin film alloys prepared by reactive radio-frequency plasma enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 528, 86-92.	0.8	17
2053	Investigation of superfast deposition of metal oxide and Diamond-Like Carbon thin films by nanosecond Ytterbium (Yb+) fiber laser. <i>Optical Materials</i> , 2013, 36, 53-59.	1.7	20
2054	Early fatigue damage detecting sensorsâ€”A review and prospects. <i>Sensors and Actuators A: Physical</i> , 2013, 198, 46-60.	2.0	26
2055	Preparation and antibacterial properties of Ag-containing diamond-like carbon films prepared by a combination of magnetron sputtering and plasma source ion implantation. <i>Vacuum</i> , 2013, 89, 179-184.	1.6	64
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2057	Grain size dependent physical and chemical properties of thick CVD diamond films for high energy density physics experiments. <i>Diamond and Related Materials</i> , 2013, 40, 75-81.	1.8	30
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2060	Nitrogen implantation into diamond-like carbon films prepared by bipolar-type plasma based ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 333-339.	0.6	13
2061	Production of sp3 hybridization by swift heavy ion irradiation of HOPG. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 562-565.	0.6	11
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2065	Effects of temperature and Mo ₂ C layer on stress and structural properties in CVD diamond film grown on Mo foil. <i>Journal of Alloys and Compounds</i> , 2013, 579, 638-645.	2.8	16
2066	Analysis of hydrogenated amorphous carbon films deposited by middle frequency pulsed unbalanced magnetron sputtering. <i>Journal of Non-Crystalline Solids</i> , 2013, 363, 77-83.	1.5	16
2067	Ultra-low density carbon foams produced by pulsed laser deposition. <i>Carbon</i> , 2013, 56, 358-365.	5.4	92
2068	Ion beam analysis of a-C:H films on alloy steel substrate. <i>Thin Solid Films</i> , 2013, 545, 171-175.	0.8	5
2069	Tailoring the structure and property of silicon-doped diamond-like carbon films by controlling the silicon content. <i>Surface and Coatings Technology</i> , 2013, 235, 326-332.	2.2	68
2070	Effects of H ₂ gas addition into process and H ion implantation on the microstructure of hydrogenated amorphous carbon films prepared by bipolar-type plasma based ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 328-332.	0.6	1
2071	Low friction and environmentally stable diamond-like carbon (DLC) coatings incorporating silicon, oxygen and fluorine sliding against aluminum. <i>Surface and Coatings Technology</i> , 2013, 215, 340-349.	2.2	38
2072	Transient reflectivity on vertically aligned single-wall carbon nanotubes. <i>Thin Solid Films</i> , 2013, 543, 51-55.	0.8	3
2073	A comparison study between atomic and ionic nitrogen doped carbon films prepared by ion beam assisted cathode arc deposition at various pulse frequencies. <i>Applied Surface Science</i> , 2013, 287, 150-158.	3.1	17
2074	Effects of Cr concentrations on the microstructure, hardness, and temperature-dependent tribological properties of Cr-DLC coatings. <i>Applied Surface Science</i> , 2013, 286, 137-141.	3.1	111
2075	Influences of ceramic mating balls on the tribological properties of Cr/a-C coatings with low chromium content in water lubrication. <i>Wear</i> , 2013, 303, 354-360.	1.5	16
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2077	Effects of CH ₄ gas and substrate temperature on hydrogenated amorphous carbon (a-C:H) films fabricated using DC facing target sputtering. <i>Journal of the Korean Physical Society</i> , 2013, 62, 258-262.	0.3	3
2078	Formation of thin DLC films on SiO ₂ /Si substrate using FCVAD technique. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 147-153.	0.6	3
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2084	Photochemical modification of DLC films with oxygen functionalities and their chemical structure control. Diamond and Related Materials, 2013, 33, 16-19.	1.8	24
2085	Growth and characteristics of diamond-like carbon films with titanium and titanium nitride functional layers by cathode arc plasma. Surface and Coatings Technology, 2013, 223, 17-23.	2.2	17
2086	Surface morphology, cohesive and adhesive properties of amorphous hydrogenated carbon nanocomposite films. Applied Surface Science, 2013, 276, 543-549.	3.1	10
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2088	Morphological analysis and cell viability on diamond-like carbon films containing nanocrystalline diamond particles. Applied Surface Science, 2013, 275, 258-263.	3.1	8
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2090	Microstructure and surface properties of chromium-doped diamond-like carbon thin films fabricated by high power pulsed magnetron sputtering. Applied Surface Science, 2013, 276, 31-36.	3.1	25
2091	Structure and properties of diamond-like carbon thin films synthesized by biased target ion beam deposition. Surface and Coatings Technology, 2013, 223, 11-16.	2.2	22
2092	Carbon coatings on polymers and their biocompatibility. Applied Surface Science, 2013, 275, 43-48.	3.1	14
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2095	Synthesis of structure-controlled carbon nano spheres by solution plasma process. Carbon, 2013, 60, 292-298.	5.4	128
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2097	Preparation and characteristics of graphene oxide and its thin films. Surface and Coatings Technology, 2013, 231, 487-491.	2.2	44
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2103	Friction and wear of Cr-doped DLC films under different lubrication conditions. Vacuum, 2013, 94, 1-5.	1.6	30
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4015	Preparation of boron-doped diamond nanospikes on porous Ti substrate for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 354, 136649.	2.6	14
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