David McKenzie

List of Publications by Year
in descending order

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572	19,998	13068	23472
papers	citations	68 h-index	111 g-index

577	577	577	13706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compressive-stress-induced formation of thin-film tetrahedral amorphous carbon. Physical Review Letters, 1991, 67, 773-776.	2.9	919
2	EELS analysis of vacuum arc-deposited diamond-like films. Philosophical Magazine Letters, 1988, 57, 285-290.	0.5	563
3	Tetrahedral bonding in amorphous carbon. Reports on Progress in Physics, 1996, 59, 1611-1664.	8.1	363
4	Gas chromatographyâ€“mass spectrometry analyses of encapsulated stable perovskite solar cells. Science, 2020, 368, .	6.0	306
5	Compressive stress induced formation of cubic boron nitride. Diamond and Related Materials, 1993, 2, 970-976.	1.8	260
6	Aphrodite's iridescence. Nature, 2001, 409, 36-37.	13.7	254
7	Properties of tetrahedral amorphous carbon prepared by vacuum arc deposition. Diamond and Related Materials, 1991, 1, 51-59.	1.8	241
8	The Vroman effect: Competitive protein exchange with dynamic multilayer protein aggregates. Colloids and Surfaces B: Biointerfaces, 2013, 103, 395-404.	2.5	240
9	The structure of the C70 molecule. Nature, 1992, 355, 622-624.	13.7	225
10	Residual stress, microstructure, and structure of tungsten thin films deposited by magnetron sputtering. Journal of Applied Physics, 2000, 87, 177-187.	1.1	185
11	Multilayer Reflectors in Animals Using Green and Gold Beetles as Contrasting Examples. Journal of Experimental Biology, 1998, 201, 1307-1313.	0.8	180
12	Free radical functionalization of surfaces to prevent adverse responses to biomedical devices. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14405-14410.	3.3	178
13	Electron diffraction analysis of polycrystalline and amorphous thin films. Acta Crystallographica Section A: Foundations and Advances, 1988, 44, 870-878.	0.3	177
14	Microscopic Structure of Tetrahedral Amorphous Carbon. Physical Review Letters, 1996, 76, 768-771.	2.9	177
15	Neutron-scattering studies of the structure of highly tetrahedral amorphous diamondlike carbon. Physical Review Letters, 1991, 67, 1286-1289.	2.9	171
16	Ab initiosimulations of the structure of amorphous carbon. Physical Review B, 2000, 61, 2349-2355.	1.1	168
17	Welding methods for joining thermoplastic polymers for the hermetic enclosure of medical devices. Medical Engineering and Physics, 2010, 32, 690-699.	0.8	162
18	Electrochemical corrosion behavior of biodegradable Mgâ€“Yâ€“RE and Mgâ€“Znâ€“Zr alloys in Ringerâ€™s solution and simulated body fluid. Corrosion Science, 2015, 91, 160-184.	3.0	162

#	Article	IF	Citations
19	Fundamentals of siRNA and miRNA therapeutics and a review of targeted nanoparticle delivery systems in breast cancer. Biophysical Reviews, 2018, 10, 69-86.	1.5	146
20	Structure and hardness of diamond-like carbon films prepared by arc evaporation. Journal of Materials Science Letters, 1988, 7, 410-412.	0.5	144
21	Ab initiosimulations of tetrahedral amorphous carbon. Physical Review B, 1996, 54, 9703-9714.	1.1	144
22	Plasma modified surfaces for covalent immobilization of functional biomolecules in the absence of chemical linkers: towards better biosensors and a new generation of medical implants. Biophysical Reviews, 2010, 2, 55-65.	1.5	144
23	Comparison of density-functional, tight-binding, and empirical methods for the simulation of amorphous carbon. Physical Review B, 2002, 65, .	1.1	143
24	A comprehensive survey of M₂AX phase elastic properties. Journal of Physics Condensed Matter, 2009, 21, 305403.	0.7	138
25	Generation and applications of compressive stress induced by low energy ion beam bombardment. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 1928.	1.6	135
26	n-type doping of highly tetrahedral diamond-like amorphous carbon. Journal of Physics Condensed Matter, 1993, 5, L169-L174.	0.7	134
27	Monte Carlo calculation of the thermalization of atoms sputtered from the cathode of a sputtering discharge. Journal of Applied Physics, 1989, 65, 3671-3679.	1.1	130
28	Ionâ€assisted deposition of mixed TiO2â€SiO2films. Journal of Applied Physics, 1989, 66, 1805-1809.	1.1	119
29	Covalent immobilisation of tropoelastin on a plasma deposited interface for enhancement of endothelialisation on metal surfaces. Biomaterials, 2009, 30, 1675-1681.	5.7	118
30	Properties and structure of amorphous hydrogenated carbon films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1983, 48, 341-364.	0.6	117
31	A comprehensive model of stress generation and relief processes in thin films deposited with energetic ions. Surface and Coatings Technology, 2006, 200, 4345-4354.	2.2	117
32	Characteristics of titanium arc evaporation processes. Thin Solid Films, 1987, 153, 91-102.	0.8	116
33	A Comparison of Covalent Immobilization and Physical Adsorption of a Cellulase Enzyme Mixture. Langmuir, 2010, 26, 14380-14388.	1.6	116
34	Substitutional nitrogen doping of tetrahedral amorphous carbon. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 69, 1133-1140.	0.6	111
35	In vivodosimeters for HDR brachytherapy: A comparison of a diamond detector, MOSFET, TLD, and scintillation detector. Medical Physics, 2007, 34, 1759-1765.	1.6	108
36	Highly tetrahedral amorphous carbon films with low stress. Applied Physics Letters, 1996, 69, 2344-2346.	1.5	107

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37	A plastic scintillation dosimeter for high dose rate brachytherapy. Physics in Medicine and Biology, 2006, 51, 5505-5516.	1.6	107
38	Small field diode correction factors derived using an air core fibre optic scintillation dosimeter and EBT2 film. Physics in Medicine and Biology, 2012, 57, 2587-2602.	1.6	106
39	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. Corrosion Science, 2014, 82, 7-26.	3.0	106
40	Mobile phones, heat shock proteins and cancer. Differentiation, 2001, 67, 93-97.	1.0	104
41	Composition, residual stress, and structural properties of thin tungsten nitride films deposited by reactive magnetron sputtering. Journal of Applied Physics, 2000, 88, 1380-1388.	1.1	103
42	Ion implantation in tetrahedral amorphous carbon. Physical Review B, 1995, 52, 850-857.	1.1	102
43	Hemocompatibility and anti-bacterial properties of silver doped diamond-like carbon prepared by pulsed filtered cathodic vacuum arc deposition. Diamond and Related Materials, 2007, 16, 1353-1360.	1.8	100
44	Cellular response to modulated radiation fields. Physics in Medicine and Biology, 2007, 52, 5469-5482.	1.6	100
45	Hydrogen-free amorphous carbon preparation and properties. Diamond and Related Materials, 1994, 3, 353-360.	1.8	99
46	The immobilization of recombinant human tropoelastin on metals using a plasma-activated coating to improve the biocompatibility of coronary stents. Biomaterials, 2010, 31, 8332-8340.	5.7	96
47	Plasma-based ion implantation utilising a cathodic arc plasma. Surface and Coatings Technology, 2002, 156, 136-142.	2.2	90
48	Intrafractional motion during proton beam scanning. Physics in Medicine and Biology, 2005, 50, 4853-4862.	1.6	90
49	A fibre optic dosimeter customised for brachytherapy. Radiation Measurements, 2007, 42, 929-932.	0.7	90
50	Optical and electronic properties of amorphous diamond. Diamond and Related Materials, 1993, 2, 782-787.	1.8	89
51	Influence of gas pressure and cathode composition on ion energy distributions in filtered cathodic vacuum arcs. Journal of Applied Physics, 1998, 83, 2965-2970.	1.1	88
52	Amorphous diamondâ€Si semiconductor heterojunctions. Applied Physics Letters, 1991, 59, 69-71.	1.5	87
53	Cerenkov-free scintillation dosimetry in external beam radiotherapy with an air core light guide. Physics in Medicine and Biology, 2008, 53, 3071-3080.	1.6	87
54	Infrared absorption and bonding in amorphous hydrogenated silicon-carbon alloys. Journal Physics D: Applied Physics, 1985, 18, 1935-1948.	1.3	86

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55	Molecular-dynamics study of compressive stress generation. Physical Review B, 1996, 53, 4117-4124.	1.1	86
56	Electron optical characterization of cubic boron nitride thin films prepared by reactive ion plating. Journal of Applied Physics, 1991, 70, 3007-3012.	1.1	85
57	Transmission laser welding of amorphous and semi-crystalline poly-etherâ€“etherâ€“ketone for applications in the medical device industry. Materials & Design, 2010, 31, 4823-4830.	5.1	85
58	Autohesion of plasma treated semi-crystalline PEEK: Comparative study of argon, nitrogen and oxygen treatments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 374, 88-95.	2.3	84
59	Electron tomography and computer visualisation of a three-dimensional â€˜photonicâ€™ crystal in a butterfly wing-scale. Micron, 2002, 33, 483-487.	1.1	82
60	Abrupt Stress Induced Transformation in Amorphous Carbon Films with a Highly Conductive Transition Phase. Physical Review Letters, 2008, 100, 176101.	2.9	81
61	Electrodeless plasma thrusters for spacecraft: a review. Plasma Science and Technology, 2017, 19, 083001.	0.7	81
62	Transport properties of arrays of intersecting cylinders. Applied Physics Berlin, 1981, 25, 23-30.	1.4	77
63	Unambiguous determination of optical constants of absorbing films by reflectance and transmittance measurements. Applied Optics, 1984, 23, 1197.	2.1	77
64	Over-response of synthetic microDiamond detectors in small radiation fields. Physics in Medicine and Biology, 2014, 59, 5873-5881.	1.6	76
65	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. Biomaterials, 2014, 35, 6797-6809.	5.7	74
66	Electrostatic and optical resonances of arrays of cylinders. Applied Physics Berlin, 1980, 23, 223-235.	1.4	72
67	Recent progress and future prospects of perovskite tandem solar cells. Applied Physics Reviews, 2021, 8, .	5.5	71
68	Exact modelling of cubic lattice permittivity and conductivity. Nature, 1977, 265, 128-129.	13.7	69
69	Analysis of films prepared by plasma polymerization of acetylene in a D.C. magnetron. Thin Solid Films, 1983, 108, 247-256.	0.8	68
70	Biological Effects of Electromagnetic Fieldsâ€”Mechanisms for the Effects of Pulsed Microwave Radiation on Protein Conformation. Journal of Theoretical Biology, 2000, 206, 291-298.	0.8	68
71	Synthesis, structure and applications of amorphous diamond. Thin Solid Films, 1991, 206, 198-203.	0.8	67
72	The orientation dependence of elastic strain energy in cubic crystals and its application to the preferred orientation in titanium nitride thin films. Journal of Physics Condensed Matter, 1996, 8, 5883-5890.	0.7	67

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73	Binding of the cell adhesive protein tropoelastin to PTFE through plasma immersion ion implantation treatment. Biomaterials, 2011, 32, 5100-5111.	5.7	67
74	Nanocrystalline hexagonal diamond formed from glassy carbon. Scientific Reports, 2016, 6, 37232.	1.6	66
75	Phosphine Dissociation on the Si(001) Surface. Physical Review Letters, 2004, 93, 226102.	2.9	65
76	Structural investigation of two carbon nitride solids produced by cathodic arc deposition and nitrogen implantation. Journal of Applied Physics, 1996, 79, 6914-6919.	1.1	64
77	Titanium nitride/vanadium nitride alloy coatings: mechanical properties and adhesion characteristics. Surface and Coatings Technology, 2006, 200, 3605-3611.	2.2	64
78	Mechanisms for surface energy changes observed in plasma immersion ion implanted polyethylene: The roles of free radicals and oxygen-containing groups. Polymer Degradation and Stability, 2009, 94, 638-646.	2.7	63
79	Characterization of a Ti vacuum arc and the structure of deposited Ti and TiN films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 22-28.	0.9	61
80	Electron spin resonance study of amorphous hydrogenated carbon films. Thin Solid Films, 1983, 108, 257-264.	0.8	60
81	The linker-free covalent attachment of collagen to plasma immersion ion implantation treated polytetrafluoroethylene and subsequent cell-binding activity. Biomaterials, 2010, 31, 2526-2534.	5.7	60
82	Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge. Physics in Medicine and Biology, 2011, 56, 5805-5821.	1.6	60
83	Codoping of aluminum and gallium with nitrogen in ZnO: A comparative first-principles investigation. Physical Review B, 2009, 79, .	1.1	59
84	Structural study of hydrogenated amorphous siliconâ€“carbon alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1986, 54, 113-131.	0.6	57
85	Thermal dissociation and desorption ofPH3on Si(001): A reinterpretation of spectroscopic data. Physical Review B, 2006, 74, .	1.1	57
86	Nonâ€Thermal effects in the microwave induced unfolding of proteins observed by chaperone binding. Bioelectromagnetics, 2008, 29, 324-330.	0.9	57
87	Elastic properties of a material composed of alternating layers of negative and positive Poisson's ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 505, 111-115.	2.6	57
88	InÂvivo biocompatibility of a plasma-activated, coronary stent coating. Biomaterials, 2012, 33, 7984-7992.	5.7	57
89	The structural phases of non-crystalline carbon prepared by physical vapour deposition. Carbon, 2009, 47, 3263-3270.	5.4	56
90	Cell Adhesion to PEEK Treated by Plasma Immersion Ion Implantation and Deposition for Active Medical Implants. Plasma Processes and Polymers, 2012, 9, 355-362.	1.6	56

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91	Structural colours through photonic crystals. Physica B: Condensed Matter, 2003, 338, 182-185.	1.3	55
92	Free radical kinetics in a plasma immersion ion implanted polystyrene: Theory and experiment. Nuclear Instruments & Methods in Physics Research B, 2012, 280, 26-35.	0.6	55
93	Childhood incidence of acute lymphoblastic leukaemia and exposure to broadcast radiation in Sydney â€" a second look. Australian and New Zealand Journal of Public Health, 1998, 22, 360-367.	0.8	54
94	The radiobiological effect of intra-fraction dose-rate modulation in intensity modulated radiation therapy (IMRT). Physics in Medicine and Biology, 2008, 53, 3567-3578.	1.6	54
95	The attachment of catalase and poly-l-lysine to plasma immersion ion implantation-treated polyethylene. Acta Biomaterialia, 2007, 3, 695-704.	4.1	53
96	Oxygen incorporation in Ti2AlC thin films. Applied Physics Letters, 2008, 92, .	1.5	53
97	A prototype scintillation dosimeter customized for small and dynamic megavoltage radiation fields. Physics in Medicine and Biology, 2010, 55, 1115-1126.	1.6	53
98	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of Mgâ€"Yâ€"RE alloy in simulated body fluid and cell culture medium. Corrosion Science, 2014, 86, 239-251.	3.0	53
99	Electron-Diffraction Evidence for Threefold Coordination in Amorphous Hydrogenated Carbon Films. Physical Review Letters, 1983, 51, 280-283.	2.9	52
100	Monte Carlo calculations of the properties of sputtered atoms at a substrate surface in a magnetron discharge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 455-461.	0.9	52
101	Thermodynamic theory for preferred orientation in materials prepared by energetic condensation. Thin Solid Films, 2001, 382, 280-287.	0.8	52
102	Biocompatibility of calcium and phosphorus doped diamond-like carbon thin films synthesized by plasma immersion ion implantation and deposition. Diamond and Related Materials, 2006, 15, 893-897.	1.8	52
103	Automated cell colony counting and analysis using the circular Hough image transform algorithm (CHiTA). Physics in Medicine and Biology, 2008, 53, 5991-6008.	1.6	52
104	Extraction of structural information from measured transport properties of composites. Applied Physics A: Solids and Surfaces, 1982, 29, 19-27.	1.4	51
105	Long term performance of evacuated tubular solar water heaters in Sydney, Australia. Solar Energy, 1984, 32, 785-791.	2.9	51
106	Mechanisms for the behavior of carbon films during annealing. Physical Review B, 2004, 70, .	1.1	51
107	Cylindrical magnetron sputtering system for coating solar selective surfaces onto batches of tubes. Journal of Vacuum Science and Technology, 1979, 16, 2105-2108.	1.9	50
108	Photoresponse characteristics ofnâ€type tetrahedral amorphous carbon/pâ€type Si heterojunction diodes. Applied Physics Letters, 1994, 64, 2297-2299.	1.5	50

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109	Direct current reactive sputtering Crâ€“Cr2O3 cermet solar selective surfaces for solar hot water applications. Thin Solid Films, 2009, 517, 1601-1606.	0.8	50
110	Acetylene plasma polymerized surfaces for covalent immobilization of dense bioactive protein monolayers. Surface and Coatings Technology, 2009, 203, 1310-1316.	2.2	50
111	Graphitization of Glassy Carbon after Compression at Room Temperature. Physical Review Letters, 2018, 120, 215701.	2.9	50
112	The structure of highly tetrahedral amorphous diamond-like carbon. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 66, 155-169.	0.6	49
113	Interactions of the directed plasma from a cathodic arc with electrodes and magnetic fields. IEEE Transactions on Plasma Science, 1996, 24, 1291-1298.	0.6	49
114	Raman spectroscopy study of DLC films prepared by RF plasma and filtered cathodic arc. Surface and Coatings Technology, 2007, 201, 6734-6736.	2.2	49
115	Electronic structure models of phosphorus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î´</mml:mi></mml:math>-doped silicon. Physical Review B, 2009, 79, .	1.1	48
116	Electron-diffraction study of chemical ordering in glow-dischargea-Si1âˆ’xCx:H. Physical Review B, 1988, 37, 8875-8881.	1.1	47
117	Influence of dc bias voltage on the refractive index and stress of carbonâ€diamond films deposited from a CH4/Ar rf plasma. Journal of Applied Physics, 1991, 70, 5374-5379.	1.1	47
118	Substrate bias effects on the structural and electronic properties of tetrahedral amorphous carbon. Physical Review B, 1996, 54, 14504-14510.	1.1	47
119	Effect of intrinsic stress on preferred orientation in AlN thin films. Journal of Applied Physics, 2004, 95, 2130-2134.	1.1	47
120	13C NMR and FTIR study of thermal annealing of amorphous hydrogenated carbon. Carbon, 1993, 31, 569-575.	5.4	46
121	A study of filter transport mechanisms in filtered cathodic vacuum arcs. IEEE Transactions on Plasma Science, 1996, 24, 1165-1173.	0.6	46
122	Control of stress and microstructure in cathodic arc deposited films. IEEE Transactions on Plasma Science, 2003, 31, 939-944.	0.6	46
123	Elastic properties of Ti_{n+1}AlC_n and Ti_{n+1}AlN_n MAX phases. Advanced Engineering Materials, 2008, 10, 935-938.	1.6	46
124	Clinical Trials of a Urethral Dose Measurement System in Brachytherapy Using Scintillation Detectors. International Journal of Radiation Oncology Biology Physics, 2011, 79, 609-615.	0.4	46
125	The structure of boron-, phosphorus- and nitrogen-doped tetrahedral amorphous carbon deposited by cathodic arc. Journal of Non-Crystalline Solids, 1994, 170, 46-50.	1.5	45
126	The Sea Mouse and the Photonic Crystal. Australian Journal of Chemistry, 2001, 54, 241.	0.5	45

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127	Characterization of small-field stereotactic radiosurgery beams with modern detectors. Physics in Medicine and Biology, 2013, 58, 7595-7608.	1.6	45
128	Thicknessâ€dependent stress in sputtered carbon films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 727-732.	0.9	44
129	Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films. Thin Solid Films, 2000, 372, 257-264.	0.8	44
130	Phosphine adsorption and dissociation on the Si(001) surface: Anab initiosurvey of structures. Physical Review B, 2005, 72, .	1.1	44
131	Linker-free covalent attachment of the extracellular matrix protein tropoelastin to a polymer surface for directed cell spreading. Acta Biomaterialia, 2009, 5, 3371-3381.	4.1	44
132	Oxygen incorporation in Ti2AlC: Tuning of anisotropic conductivity. Applied Physics Letters, 2010, 97, .	1.5	44
133	Mechanical Properties of Plasma Immersion Ion Implanted PEEK for Bioactivation of Medical Devices. ACS Applied Materials & Interfaces, 2015, 7, 23029-23040.	4.0	44
134	Properties of TiN films deposited at low temperature in a new plasmaâ€based deposition system. Journal of Applied Physics, 1996, 80, 6279-6285.	1.1	43
135	Electromagnetic radiation at 835 MHz changes the morphology and inhibits proliferation of a human astrocytoma cell line. Bioelectrochemistry, 1997, 43, 13-18.	1.0	42
136	A unique form of light reflector and the evolution of signalling in Ovalipes (Crustacea: Decapoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	42
137	Plasmaâ€Treated Polyethylene Surfaces for Improved Binding of Active Protein. Plasma Processes and Polymers, 2007, 4, 583-590.	1.6	42
138	Influence of ion assistance on the optical properties of MgF_2. Applied Optics, 1987, 26, 1235.	2.1	41
139	MD simulations of Ag film growth using the Lennard-Jones potential. Journal of Physics Condensed Matter, 1996, 8, 8753-8762.	0.7	41
140	EFFECTS OF EXPOSURE TO ELECTROMAGNETIC RADIATION AT 835 MHz ON GROWTH, MORPHOLOGY AND SECRETORY CHARACTERISTICS OF A MAST CELL ANALOGUE, RBL-2H3. Cell Biology International, 1997, 21, 427-439.	1.4	41
141	Gold, silver, chromium, and copper cermet selective surfaces for evacuated solar collectors. Applied Physics Letters, 1979, 34, 25-28.	1.5	40
142	An interferometric investigation of the thermalization of copper atoms in a magnetron sputtering discharge. Journal of Applied Physics, 1986, 59, 720-724.	1.1	40
143	Optical properties and microstructure of thin silver films. Optics Communications, 1991, 85, 70-82.	1.0	40
144	Gap states, doping and bonding in tetrahedral amorphous carbon. Diamond and Related Materials, 1995, 4, 637-640.	1.8	40

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145	Controlled glow to arc transition in sputtering for high rate deposition of carbon films. Diamond and Related Materials, 2011, 20, 68-74.	1.8	40
146	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. Acta Biomaterialia, 2012, 8, 2538-2548.	4.1	40
147	Cancer treatment with gas plasma and with gas plasmaâ€“activated liquid: positives, potentials and problems of clinical translation. Biophysical Reviews, 2020, 12, 989-1006.	1.5	40
148	Hydrogenated carbon films produced by sputtering in argonâ€“hydrogen mixtures. Applied Optics, 1982, 21, 3615.	2.1	39
149	Growth dynamics of aluminum nitride and aluminum oxide thin films synthesized by ionâ€assisted deposition. Journal of Applied Physics, 1988, 63, 760-769.	1.1	39
150	Properties of ZrN x prepared by ion-assisted deposition. Journal of Materials Science Letters, 1990, 9, 972-974.	0.5	39
151	Nanoindentation response of PEEK modified by mesh-assisted plasma immersion ion implantation. Surface and Coatings Technology, 2007, 201, 7961-7969.	2.2	39
152	Perovskite solar cells for building integrated photovoltaicsâ€”glazing applications. Joule, 2022, 6, 1446-1474.	11.7	39
153	Optical constants of amorphous hydrogenated carbon and silicon-carbon alloy films and their application in high temperature solar selective surfaces. Solar Energy Materials and Solar Cells, 1983, 9, 113-126.	0.4	38
154	Magnetic and spin properties of tetrahedral amorphous carbon. Diamond and Related Materials, 1995, 4, 912-916.	1.8	38
155	Nonvolatile memory effects in nitrogen doped tetrahedral amorphous carbon thin films. Journal of Applied Physics, 1998, 84, 5647-5651.	1.1	38
156	Electron diffraction from polycrystalline materials showing stress induced preferred orientation. Journal of Applied Physics, 1999, 86, 230-236.	1.1	38
157	Ab initiosimulation of structure in amorphous hydrogenated carbon. Physical Review B, 2000, 62, 3071-3077.	1.1	38
158	Dose mapping of the rectal wall during brachytherapy with an array of scintillation dosimeters. Medical Physics, 2010, 37, 2247-2255.	1.6	38
159	Evaluation of corrosion resistance and cytocompatibility of graded metal carbon film on Ti and NiTi prepared by hybrid cathodic arc/glow discharge plasma-assisted chemical vapor deposition. Corrosion Science, 2015, 97, 126-138.	3.0	38
160	The structure and properties of ionâ€beamâ€synthesized boron nitride films. Journal of Applied Physics, 1988, 64, 3980-3986.	1.1	37
161	Cathode spot phenomena in titanium vacuum arcs. Journal of Applied Physics, 1989, 66, 505-512.	1.1	37
162	Electron microscopy study on the grain-boundary precipitation during aging of Fe-10Ni-5Mn steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 2421-2428.	1.1	37

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163	Percolation threshold in ultrathin titanium films determined byin situspectroscopic ellipsometry. Physical Review B, 2004, 70, .	1.1	37
164	Transmission of ÄŒerenkov radiation in optical fibers. Optics Letters, 2007, 32, 1205.	1.7	37
165	External magnetic field increases both plasma generation and deposition rate in HiPIMS. Surface and Coatings Technology, 2018, 352, 671-679.	2.2	37
166	Combined deposition and implantation in the cathodic arc for thick film preparation. Surface and Coatings Technology, 2001, 136, 188-191.	2.2	36
167	Water on silicon (001):Cdefects and initial steps of surface oxidation. Physical Review B, 2008, 77, .	1.1	36
168	Covalently Bound Biomimetic Layers on Plasma Polymers with Graded Metallic Interfaces for in vivo Implants. Plasma Processes and Polymers, 2009, 6, 658-666.	1.6	36
169	Enhanced Autohesive Bonding of Polyetheretherketone (PEEK) for Biomedical Applications Using a Methane/Oxygen Plasma Treatment. Plasma Processes and Polymers, 2010, 7, 1010-1021.	1.6	36
170	Reaction paths of phosphine dissociation on silicon (001). Journal of Chemical Physics, 2016, 144, 014705.	1.2	36
171	Atomic-Scale Patterning of Arsenic in Silicon by Scanning Tunneling Microscopy. ACS Nano, 2020, 14, 3316-3327.	7.3	36
172	NMR evidence for strained carbon bonding in tetrahedral amorphous carbon. Chemical Physics, 1995, 193, 167-172.	0.9	35
173	Effect of ion modification of commonly used orthopedic materials on the attachment of human bone-derived cells. , 1999, 45, 345-354.		35
174	High dose-rate brachytherapy source localization: positional resolution using a diamond detector. Physics in Medicine and Biology, 2003, 48, 2133-2146.	1.6	35
175	Modification of polymers by plasma-based ion implantation for biomedical applications. Surface and Coatings Technology, 2004, 186, 239-244.	2.2	35
176	Formation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>M</mml:mi><mml:mi>A</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:math>-phase oxycarbide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ti</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2009, 80, .	1.1	35
177	A mathematical framework for separating the direct and bystander components of cellular radiation response. Acta OncolÃ³gica, 2010, 49, 1334-1343.	0.8	35
178	The role of pulse length in target poisoning during reactive HiPIMS: application to amorphous HfO₂. Plasma Sources Science and Technology, 2015, 24, 035015.	1.3	35
179	Electron diffraction of amorphous thin films using PEELS. Microscopy Microanalysis Microstructures, 1991, 2, 359-366.	0.4	35
180	The antiferroelectric transition in thiourea studied by thermal neutron scattering. Journal of Physics C: Solid State Physics, 1975, 8, 1607-1619.	1.5	34

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