

# David McKenzie

## List of Publications by Year in descending order

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572  
papers

19,998  
citations

13099

68  
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23533

111  
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577  
all docs

577  
docs citations

577  
times ranked

13706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compressive-stress-induced formation of thin-film tetrahedral amorphous carbon. <i>Physical Review Letters</i> , 1991, 67, 773-776.	7.8	919
2	EELS analysis of vacuum arc-deposited diamond-like films. <i>Philosophical Magazine Letters</i> , 1988, 57, 285-290.	1.2	563
3	Tetrahedral bonding in amorphous carbon. <i>Reports on Progress in Physics</i> , 1996, 59, 1611-1664.	20.1	363
4	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. <i>Science</i> , 2020, 368, .	12.6	306
5	Compressive stress induced formation of cubic boron nitride. <i>Diamond and Related Materials</i> , 1993, 2, 970-976.	3.9	260
6	Aphrodite's iridescence. <i>Nature</i> , 2001, 409, 36-37.	27.8	254
7	Properties of tetrahedral amorphous carbon prepared by vacuum arc deposition. <i>Diamond and Related Materials</i> , 1991, 1, 51-59.	3.9	241
8	The Vroman effect: Competitive protein exchange with dynamic multilayer protein aggregates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 395-404.	5.0	240
9	The structure of the C70 molecule. <i>Nature</i> , 1992, 355, 622-624.	27.8	225
10	Residual stress, microstructure, and structure of tungsten thin films deposited by magnetron sputtering. <i>Journal of Applied Physics</i> , 2000, 87, 177-187.	2.5	185
11	Multilayer Reflectors in Animals Using Green and Gold Beetles as Contrasting Examples. <i>Journal of Experimental Biology</i> , 1998, 201, 1307-1313.	1.7	180
12	Free radical functionalization of surfaces to prevent adverse responses to biomedical devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14405-14410.	7.1	178
13	Electron diffraction analysis of polycrystalline and amorphous thin films. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988, 44, 870-878.	0.3	177
14	Microscopic Structure of Tetrahedral Amorphous Carbon. <i>Physical Review Letters</i> , 1996, 76, 768-771.	7.8	177
15	Neutron-scattering studies of the structure of highly tetrahedral amorphous diamondlike carbon. <i>Physical Review Letters</i> , 1991, 67, 1286-1289.	7.8	171
16	Ab initio simulations of the structure of amorphous carbon. <i>Physical Review B</i> , 2000, 61, 2349-2355.	3.2	168
17	Welding methods for joining thermoplastic polymers for the hermetic enclosure of medical devices. <i>Medical Engineering and Physics</i> , 2010, 32, 690-699.	1.7	162
18	Electrochemical corrosion behavior of biodegradable Mg-Y-RE and Mg-Zn-Zr alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , 2015, 91, 160-184.	6.6	162

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19	Fundamentals of siRNA and miRNA therapeutics and a review of targeted nanoparticle delivery systems in breast cancer. <i>Biophysical Reviews</i> , 2018, 10, 69-86.	3.2	146
20	Structure and hardness of diamond-like carbon films prepared by arc evaporation. <i>Journal of Materials Science Letters</i> , 1988, 7, 410-412.	0.5	144
21	Ab initio simulations of tetrahedral amorphous carbon. <i>Physical Review B</i> , 1996, 54, 9703-9714.	3.2	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. <i>Biophysical Reviews</i> , 2010, 2, 55-65.	3.2	144
23	Comparison of density-functional, tight-binding, and empirical methods for the simulation of amorphous carbon. <i>Physical Review B</i> , 2002, 65, .	3.2	143
24	A comprehensive survey of $M_{2}AX$ phase elastic properties. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 305403.	1.8	138
25	Generation and applications of compressive stress induced by low energy ion beam bombardment. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993, 11, 1928.	1.6	135
26	n-type doping of highly tetrahedral diamond-like amorphous carbon. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L169-L174.	1.8	134
27	Monte Carlo calculation of the thermalization of atoms sputtered from the cathode of a sputtering discharge. <i>Journal of Applied Physics</i> , 1989, 65, 3671-3679.	2.5	130
28	Ion-assisted deposition of mixed $TiO_2$ - $SiO_2$ films. <i>Journal of Applied Physics</i> , 1989, 66, 1805-1809.	2.5	119
29	Covalent immobilisation of tropoelastin on a plasma deposited interface for enhancement of endothelialisation on metal surfaces. <i>Biomaterials</i> , 2009, 30, 1675-1681.	11.4	118
30	Properties and structure of amorphous hydrogenated carbon films. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983, 48, 341-364.	0.6	117
31	A comprehensive model of stress generation and relief processes in thin films deposited with energetic ions. <i>Surface and Coatings Technology</i> , 2006, 200, 4345-4354.	4.8	117
32	Characteristics of titanium arc evaporation processes. <i>Thin Solid Films</i> , 1987, 153, 91-102.	1.8	116
33	A Comparison of Covalent Immobilization and Physical Adsorption of a Cellulase Enzyme Mixture. <i>Langmuir</i> , 2010, 26, 14380-14388.	3.5	116
34	Substitutional nitrogen doping of tetrahedral amorphous carbon. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 69, 1133-1140.	0.6	111
35	In vivodosimeters for HDR brachytherapy: A comparison of a diamond detector, MOSFET, TLD, and scintillation detector. <i>Medical Physics</i> , 2007, 34, 1759-1765.	3.0	108
36	Highly tetrahedral amorphous carbon films with low stress. <i>Applied Physics Letters</i> , 1996, 69, 2344-2346.	3.3	107

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37	A plastic scintillation dosimeter for high dose rate brachytherapy. <i>Physics in Medicine and Biology</i> , 2006, 51, 5505-5516.	3.0	107
38	Small field diode correction factors derived using an air core fibre optic scintillation dosimeter and EBT2 film. <i>Physics in Medicine and Biology</i> , 2012, 57, 2587-2602.	3.0	106
39	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. <i>Corrosion Science</i> , 2014, 82, 7-26.	6.6	106
40	Mobile phones, heat shock proteins and cancer. <i>Differentiation</i> , 2001, 67, 93-97.	1.9	104
41	Composition, residual stress, and structural properties of thin tungsten nitride films deposited by reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2000, 88, 1380-1388.	2.5	103
42	Ion implantation in tetrahedral amorphous carbon. <i>Physical Review B</i> , 1995, 52, 850-857.	3.2	102
43	Hemocompatibility and anti-bacterial properties of silver doped diamond-like carbon prepared by pulsed filtered cathodic vacuum arc deposition. <i>Diamond and Related Materials</i> , 2007, 16, 1353-1360.	3.9	100
44	Cellular response to modulated radiation fields. <i>Physics in Medicine and Biology</i> , 2007, 52, 5469-5482.	3.0	100
45	Hydrogen-free amorphous carbon preparation and properties. <i>Diamond and Related Materials</i> , 1994, 3, 353-360.	3.9	99
46	The immobilization of recombinant human tropoelastin on metals using a plasma-activated coating to improve the biocompatibility of coronary stents. <i>Biomaterials</i> , 2010, 31, 8332-8340.	11.4	96
47	Plasma-based ion implantation utilising a cathodic arc plasma. <i>Surface and Coatings Technology</i> , 2002, 156, 136-142.	4.8	90
48	Intrafractional motion during proton beam scanning. <i>Physics in Medicine and Biology</i> , 2005, 50, 4853-4862.	3.0	90
49	A fibre optic dosimeter customised for brachytherapy. <i>Radiation Measurements</i> , 2007, 42, 929-932.	1.4	90
50	Optical and electronic properties of amorphous diamond. <i>Diamond and Related Materials</i> , 1993, 2, 782-787.	3.9	89
51	Influence of gas pressure and cathode composition on ion energy distributions in filtered cathodic vacuum arcs. <i>Journal of Applied Physics</i> , 1998, 83, 2965-2970.	2.5	88
52	Amorphous diamond $\alpha$ Si semiconductor heterojunctions. <i>Applied Physics Letters</i> , 1991, 59, 69-71.	3.3	87
53	Cerenkov-free scintillation dosimetry in external beam radiotherapy with an air core light guide. <i>Physics in Medicine and Biology</i> , 2008, 53, 3071-3080.	3.0	87
54	Infrared absorption and bonding in amorphous hydrogenated silicon-carbon alloys. <i>Journal Physics D: Applied Physics</i> , 1985, 18, 1935-1948.	2.8	86

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55	Molecular-dynamics study of compressive stress generation. <i>Physical Review B</i> , 1996, 53, 4117-4124.	3.2	86
56	Electron optical characterization of cubic boron nitride thin films prepared by reactive ion plating. <i>Journal of Applied Physics</i> , 1991, 70, 3007-3012.	2.5	85
57	Transmission laser welding of amorphous and semi-crystalline poly-ether-ether-ketone for applications in the medical device industry. <i>Materials &amp; Design</i> , 2010, 31, 4823-4830.	5.1	85
58	Autohesion of plasma treated semi-crystalline PEEK: Comparative study of argon, nitrogen and oxygen treatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 374, 88-95.	4.7	84
59	Electron tomography and computer visualisation of a three-dimensional "photonic" crystal in a butterfly wing-scale. <i>Micron</i> , 2002, 33, 483-487.	2.2	82
60	Abrupt Stress Induced Transformation in Amorphous Carbon Films with a Highly Conductive Transition Phase. <i>Physical Review Letters</i> , 2008, 100, 176101.	7.8	81
61	Electrodeless plasma thrusters for spacecraft: a review. <i>Plasma Science and Technology</i> , 2017, 19, 083001.	1.5	81
62	Transport properties of arrays of intersecting cylinders. <i>Applied Physics Berlin</i> , 1981, 25, 23-30.	1.4	77
63	Unambiguous determination of optical constants of absorbing films by reflectance and transmittance measurements. <i>Applied Optics</i> , 1984, 23, 1197.	2.1	77
64	Over-response of synthetic microDiamond detectors in small radiation fields. <i>Physics in Medicine and Biology</i> , 2014, 59, 5873-5881.	3.0	76
65	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. <i>Biomaterials</i> , 2014, 35, 6797-6809.	11.4	74
66	Electrostatic and optical resonances of arrays of cylinders. <i>Applied Physics Berlin</i> , 1980, 23, 223-235.	1.4	72
67	Recent progress and future prospects of perovskite tandem solar cells. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	71
68	Exact modelling of cubic lattice permittivity and conductivity. <i>Nature</i> , 1977, 265, 128-129.	27.8	69
69	Analysis of films prepared by plasma polymerization of acetylene in a D.C. magnetron. <i>Thin Solid Films</i> , 1983, 108, 247-256.	1.8	68
70	Biological Effects of Electromagnetic Fields—Mechanisms for the Effects of Pulsed Microwave Radiation on Protein Conformation. <i>Journal of Theoretical Biology</i> , 2000, 206, 291-298.	1.7	68
71	Synthesis, structure and applications of amorphous diamond. <i>Thin Solid Films</i> , 1991, 206, 198-203.	1.8	67
72	The orientation dependence of elastic strain energy in cubic crystals and its application to the preferred orientation in titanium nitride thin films. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 5883-5890.	1.8	67

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73	Binding of the cell adhesive protein tropoelastin to PTFE through plasma immersion ion implantation treatment. <i>Biomaterials</i> , 2011, 32, 5100-5111.	11.4	67
74	Nanocrystalline hexagonal diamond formed from glassy carbon. <i>Scientific Reports</i> , 2016, 6, 37232.	3.3	66
75	Phosphine Dissociation on the Si(001) Surface. <i>Physical Review Letters</i> , 2004, 93, 226102.	7.8	65
76	Structural investigation of two carbon nitride solids produced by cathodic arc deposition and nitrogen implantation. <i>Journal of Applied Physics</i> , 1996, 79, 6914-6919.	2.5	64
77	Titanium nitride/vanadium nitride alloy coatings: mechanical properties and adhesion characteristics. <i>Surface and Coatings Technology</i> , 2006, 200, 3605-3611.	4.8	64
78	Mechanisms for surface energy changes observed in plasma immersion ion implanted polyethylene: The roles of free radicals and oxygen-containing groups. <i>Polymer Degradation and Stability</i> , 2009, 94, 638-646.	5.8	63
79	Characterization of a Ti vacuum arc and the structure of deposited Ti and TiN films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 22-28.	2.1	61
80	Electron spin resonance study of amorphous hydrogenated carbon films. <i>Thin Solid Films</i> , 1983, 108, 257-264.	1.8	60
81	The linker-free covalent attachment of collagen to plasma immersion ion implantation treated polytetrafluoroethylene and subsequent cell-binding activity. <i>Biomaterials</i> , 2010, 31, 2526-2534.	11.4	60
82	Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge. <i>Physics in Medicine and Biology</i> , 2011, 56, 5805-5821.	3.0	60
83	Codoping of aluminum and gallium with nitrogen in ZnO: A comparative first-principles investigation. <i>Physical Review B</i> , 2009, 79, .	3.2	59
84	Structural study of hydrogenated amorphous silicon-carbon alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1986, 54, 113-131.	0.6	57
85	Thermal dissociation and desorption of PH <sub>3</sub> on Si(001): A reinterpretation of spectroscopic data. <i>Physical Review B</i> , 2006, 74, .	3.2	57
86	Non-thermal effects in the microwave induced unfolding of proteins observed by chaperone binding. <i>Bioelectromagnetics</i> , 2008, 29, 324-330.	1.6	57
87	Elastic properties of a material composed of alternating layers of negative and positive Poisson's ratio. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 505, 111-115.	5.6	57
88	In-vivo biocompatibility of a plasma-activated, coronary stent coating. <i>Biomaterials</i> , 2012, 33, 7984-7992.	11.4	57
89	The structural phases of non-crystalline carbon prepared by physical vapour deposition. <i>Carbon</i> , 2009, 47, 3263-3270.	10.3	56
90	Cell Adhesion to PEEK Treated by Plasma Immersion Ion Implantation and Deposition for Active Medical Implants. <i>Plasma Processes and Polymers</i> , 2012, 9, 355-362.	3.0	56

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91	Structural colours through photonic crystals. <i>Physica B: Condensed Matter</i> , 2003, 338, 182-185.	2.7	55
92	Free radical kinetics in a plasma immersion ion implanted polystyrene: Theory and experiment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 280, 26-35.	1.4	55
93	Childhood incidence of acute lymphoblastic leukaemia and exposure to broadcast radiation in Sydney – a second look. <i>Australian and New Zealand Journal of Public Health</i> , 1998, 22, 360-367.	1.8	54
94	The radiobiological effect of intra-fraction dose-rate modulation in intensity modulated radiation therapy (IMRT). <i>Physics in Medicine and Biology</i> , 2008, 53, 3567-3578.	3.0	54
95	The attachment of catalase and poly-L-lysine to plasma immersion ion implantation-treated polyethylene. <i>Acta Biomaterialia</i> , 2007, 3, 695-704.	8.3	53
96	Oxygen incorporation in Ti2AlC thin films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	53
97	A prototype scintillation dosimeter customized for small and dynamic megavoltage radiation fields. <i>Physics in Medicine and Biology</i> , 2010, 55, 1115-1126.	3.0	53
98	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of Mg–Y–RE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , 2014, 86, 239-251.	6.6	53
99	Electron-Diffraction Evidence for Threefold Coordination in Amorphous Hydrogenated Carbon Films. <i>Physical Review Letters</i> , 1983, 51, 280-283.	7.8	52
100	Monte Carlo calculations of the properties of sputtered atoms at a substrate surface in a magnetron discharge. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 455-461.	2.1	52
101	Thermodynamic theory for preferred orientation in materials prepared by energetic condensation. <i>Thin Solid Films</i> , 2001, 382, 280-287.	1.8	52
102	Biocompatibility of calcium and phosphorus doped diamond-like carbon thin films synthesized by plasma immersion ion implantation and deposition. <i>Diamond and Related Materials</i> , 2006, 15, 893-897.	3.9	52
103	Automated cell colony counting and analysis using the circular Hough image transform algorithm (CHiTA). <i>Physics in Medicine and Biology</i> , 2008, 53, 5991-6008.	3.0	52
104	Extraction of structural information from measured transport properties of composites. <i>Applied Physics A: Solids and Surfaces</i> , 1982, 29, 19-27.	1.4	51
105	Long term performance of evacuated tubular solar water heaters in Sydney, Australia. <i>Solar Energy</i> , 1984, 32, 785-791.	6.1	51
106	Mechanisms for the behavior of carbon films during annealing. <i>Physical Review B</i> , 2004, 70, .	3.2	51
107	Cylindrical magnetron sputtering system for coating solar selective surfaces onto batches of tubes. <i>Journal of Vacuum Science and Technology</i> , 1979, 16, 2105-2108.	1.9	50
108	Photoresponse characteristics of n-type tetrahedral amorphous carbon/p-type Si heterojunction diodes. <i>Applied Physics Letters</i> , 1994, 64, 2297-2299.	3.3	50

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109	Direct current reactive sputtering Cr <sub>2</sub> O <sub>3</sub> cermet solar selective surfaces for solar hot water applications. Thin Solid Films, 2009, 517, 1601-1606.	1.8	50
110	Acetylene plasma polymerized surfaces for covalent immobilization of dense bioactive protein monolayers. Surface and Coatings Technology, 2009, 203, 1310-1316.	4.8	50
111	Graphitization of Glassy Carbon after Compression at Room Temperature. Physical Review Letters, 2018, 120, 215701.	7.8	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.	1.3	49
114	Raman spectroscopy study of DLC films prepared by RF plasma and filtered cathodic arc. Surface and Coatings Technology, 2007, 201, 6734-6736.	4.8	49
115	Electronic structure models of phosphorus-doped silicon. Physical Review B, 2009, 79, .	3.2	48
116	Electron-diffraction study of chemical ordering in glow-discharge Si <sub>1-x</sub> C <sub>x</sub> H. Physical Review B, 1988, 37, 8875-8881.	3.2	47
117	Influence of dc bias voltage on the refractive index and stress of carbon-diamond films deposited from a CH <sub>4</sub> /Ar rf plasma. Journal of Applied Physics, 1991, 70, 5374-5379.	2.5	47
118	Substrate bias effects on the structural and electronic properties of tetrahedral amorphous carbon. Physical Review B, 1996, 54, 14504-14510.	3.2	47
119	Effect of intrinsic stress on preferred orientation in AlN thin films. Journal of Applied Physics, 2004, 95, 2130-2134.	2.5	47
120	<sup>13</sup> C NMR and FTIR study of thermal annealing of amorphous hydrogenated carbon. Carbon, 1993, 31, 569-575.	10.3	46
121	A study of filter transport mechanisms in filtered cathodic vacuum arcs. IEEE Transactions on Plasma Science, 1996, 24, 1165-1173.	1.3	46
122	Control of stress and microstructure in cathodic arc deposited films. IEEE Transactions on Plasma Science, 2003, 31, 939-944.	1.3	46
123	Elastic properties of TiAlC and TiAlN MAX phases. Advanced Engineering Materials, 2008, 10, 935-938.	3.5	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.	0.8	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.	3.1	45
126	The Sea Mouse and the Photonic Crystal. Australian Journal of Chemistry, 2001, 54, 241.	0.9	45



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127	Characterization of small-field stereotactic radiosurgery beams with modern detectors. <i>Physics in Medicine and Biology</i> , 2013, 58, 7595-7608.	3.0	45
128	Thickness-dependent stress in sputtered carbon films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994, 12, 727-732.	2.1	44
129	Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films. <i>Thin Solid Films</i> , 2000, 372, 257-264.	1.8	44
130	Phosphine adsorption and dissociation on the Si(001) surface: An ab initio survey of structures. <i>Physical Review B</i> , 2005, 72, .	3.2	44
131	Linker-free covalent attachment of the extracellular matrix protein tropoelastin to a polymer surface for directed cell spreading. <i>Acta Biomaterialia</i> , 2009, 5, 3371-3381.	8.3	44
132	Oxygen incorporation in Ti2AlC: Tuning of anisotropic conductivity. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	44
133	Mechanical Properties of Plasma Immersion Ion Implanted PEEK for Bioactivation of Medical Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23029-23040.	8.0	44
134	Properties of TiN films deposited at low temperature in a new plasma-based deposition system. <i>Journal of Applied Physics</i> , 1996, 80, 6279-6285.	2.5	43
135	Electromagnetic radiation at 835 MHz changes the morphology and inhibits proliferation of a human astrocytoma cell line. <i>Bioelectrochemistry</i> , 1997, 43, 13-18.	1.0	42
136	A unique form of light reflector and the evolution of signalling in <i>Ovalipes</i> (Crustacea: Decapoda). <i>Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50</i>	2.6	42
137	Plasma-treated Polyethylene Surfaces for Improved Binding of Active Protein. <i>Plasma Processes and Polymers</i> , 2007, 4, 583-590.	3.0	42
138	Influence of ion assistance on the optical properties of MgF <sub>2</sub> . <i>Applied Optics</i> , 1987, 26, 1235.	2.1	41
139	MD simulations of Ag film growth using the Lennard-Jones potential. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 8753-8762.	1.8	41
140	EFFECTS OF EXPOSURE TO ELECTROMAGNETIC RADIATION AT 835 MHz ON GROWTH, MORPHOLOGY AND SECRETORY CHARACTERISTICS OF A MAST CELL ANALOGUE, RBL-2H3. <i>Cell Biology International</i> , 1997, 21, 427-439.	3.0	41
141	Gold, silver, chromium, and copper cermet selective surfaces for evacuated solar collectors. <i>Applied Physics Letters</i> , 1979, 34, 25-28.	3.3	40
142	An interferometric investigation of the thermalization of copper atoms in a magnetron sputtering discharge. <i>Journal of Applied Physics</i> , 1986, 59, 720-724.	2.5	40
143	Optical properties and microstructure of thin silver films. <i>Optics Communications</i> , 1991, 85, 70-82.	2.1	40
144	Gap states, doping and bonding in tetrahedral amorphous carbon. <i>Diamond and Related Materials</i> , 1995, 4, 637-640.	3.9	40

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145	Controlled glow to arc transition in sputtering for high rate deposition of carbon films. <i>Diamond and Related Materials</i> , 2011, 20, 68-74.	3.9	40
146	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. <i>Acta Biomaterialia</i> , 2012, 8, 2538-2548.	8.3	40
147	Cancer treatment with gas plasma and with gas plasma-activated liquid: positives, potentials and problems of clinical translation. <i>Biophysical Reviews</i> , 2020, 12, 989-1006.	3.2	40
148	Hydrogenated carbon films produced by sputtering in argon-hydrogen mixtures. <i>Applied Optics</i> , 1982, 21, 3615.	2.1	39
149	Growth dynamics of aluminum nitride and aluminum oxide thin films synthesized by ion-assisted deposition. <i>Journal of Applied Physics</i> , 1988, 63, 760-769.	2.5	39
150	Properties of ZrN x prepared by ion-assisted deposition. <i>Journal of Materials Science Letters</i> , 1990, 9, 972-974.	0.5	39
151	Nanoindentation response of PEEK modified by mesh-assisted plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2007, 201, 7961-7969.	4.8	39
152	Perovskite solar cells for building integrated photovoltaics-glazing applications. <i>Joule</i> , 2022, 6, 1446-1474.	24.0	39
153	Optical constants of amorphous hydrogenated carbon and silicon-carbon alloy films and their application in high temperature solar selective surfaces. <i>Solar Energy Materials and Solar Cells</i> , 1983, 9, 113-126.	0.4	38
154	Magnetic and spin properties of tetrahedral amorphous carbon. <i>Diamond and Related Materials</i> , 1995, 4, 912-916.	3.9	38
155	Nonvolatile memory effects in nitrogen doped tetrahedral amorphous carbon thin films. <i>Journal of Applied Physics</i> , 1998, 84, 5647-5651.	2.5	38
156	Electron diffraction from polycrystalline materials showing stress induced preferred orientation. <i>Journal of Applied Physics</i> , 1999, 86, 230-236.	2.5	38
157	Ab initio simulation of structure in amorphous hydrogenated carbon. <i>Physical Review B</i> , 2000, 62, 3071-3077.	3.2	38
158	Dose mapping of the rectal wall during brachytherapy with an array of scintillation dosimeters. <i>Medical Physics</i> , 2010, 37, 2247-2255.	3.0	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. <i>Corrosion Science</i> , 2015, 97, 126-138.	6.6	38
160	The structure and properties of ion-beam-synthesized boron nitride films. <i>Journal of Applied Physics</i> , 1988, 64, 3980-3986.	2.5	37
161	Cathode spot phenomena in titanium vacuum arcs. <i>Journal of Applied Physics</i> , 1989, 66, 505-512.	2.5	37
162	Electron microscopy study on the grain-boundary precipitation during aging of Fe-10Ni-5Mn steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 2421-2428.	2.2	37

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163	Percolation threshold in ultrathin titanium films determined by in situ spectroscopic ellipsometry. <i>Physical Review B</i> , 2004, 70, .	3.2	37
164	Transmission of ÅEerenkov radiation in optical fibers. <i>Optics Letters</i> , 2007, 32, 1205.	3.3	37
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