David McKenzie

List of Publications by Year
in descending order

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572 papers	19,998 citations	13099 68 h-index	23533 111 g-index
577 all docs	577 docs citations	577 times ranked	13706 citing authors

#	Article	IF	Citations
1	Current and future perspectives on biomaterials for segmental mandibular defect repair. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 725-737.	3.4	5
2	Deployment Opportunities for Space Photovoltaics and the Prospects for Perovskite Solar Cells. Advanced Materials Technologies, 2022, 7, .	5.8	25
3	Plasma immersion ionâ€implanted 3Dâ€printed PEEK bone implants: In vivo sheep study shows strong osseointegration. Plasma Processes and Polymers, 2022, 19, .	3.0	11
4	Radiation responses of cancer and normal cells to split dose fractions with uniform and grid fields: increasing the therapeutic ratio. International Journal of Radiation Biology, 2022, , 1-8.	1.8	0
5	The gray body approximation for radiative heat transfer in evacuated tube solar collectors: Effects of envelope infrared transparency. Journal of Applied Physics, 2022, 131, 125001.	2.5	0
6	Publisher's Note: â€œThe gray body approximation for radiative heat transfer in evacuated tube solar collectors: Effects of envelope infrared transparencyâ€•[J. Appl. Phys. 131, 125001 (2022)]. Journal of Applied Physics, 2022, 131, .	2.5	0
7	Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy. Plasma Processes and Polymers, 2022, 19, .	3.0	1
8	Perovskite solar cells for building integrated photovoltaicsâ€"glazing applications. Joule, 2022, 6, 1446-1474.	24.0	39
9	Plasma ion implantation of 3Dâ€printed PEEK creates optimal host conditions for bone ongrowth and mineralisation. Plasma Processes and Polymers, 2021, 18, 2000219.	3.0	13
10	Neutron diffraction discriminates between models for the nanoarchitecture of graphene sheets in glassy carbon. Journal of Non-Crystalline Solids, 2021, 554, 120610.	3.1	9
11	Room-Temperature Negative Differential Resistance in Amorphous Carbon: The Role of Electron Trapping Defects at Device Interfaces. IEEE Transactions on Electron Devices, 2021, 68, 720-725.	3.0	2
12	Quantifying Moisture Penetration in Encapsulated Devices by Heavy Water Mass Spectrometry: A Standard Moisture Leak Using Poly(ether-ether-ketone). ACS Applied Materials & Interfaces, 2021, 13, 13666-13675.	8.0	7
13	Silicate glass-to-glass hermetic bonding for encapsulation of next-generation optoelectronics: A review. Materials Today, 2021, 47, 131-155.	14.2	18
14	External magnetic field guiding in HiPIMS to control sp³ fraction of tetrahedral amorphous carbon films. Journal Physics D: Applied Physics, 2021, 54, 045002.	2.8	10
15	Recent progress and future prospects of perovskite tandem solar cells. Applied Physics Reviews, 2021, 8, .	11.3	71
16	Applying the Hashinâ€“Shtrikman bounds to predict stiffness of multicomponent 3D printed structures: Towards regenerative orthopaedic medicine. Journal of Composite Materials, 2020, 54, 2173-2183.	2.4	2
17	The importance of total hemispherical emittance in evaluating performance of building-integrated silicon and perovskite solar cells in insulated glazings. Applied Energy, 2020, 276, 115490.	10.1	11
18	Investigation of Room Temperature Formation of the Ultraâ€Hard Nanocarbons Diamond and Lonsdaleite. Small, 2020, 16, e2004695.	10.0	11

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19	Cancer treatment with gas plasma and with gas plasmaâ€“activated liquid: positives, potentials and problems of clinical translation. Biophysical Reviews, 2020, 12, 989-1006.	3.2	40
20	Atmospheric Pressure Plasma Jet Treatment of Polymers Enables Reagent-Free Covalent Attachment of Biomolecules for Bioprinting. ACS Applied Materials & Interfaces, 2020, 12, 38730-38743.	8.0	18
21	Covalent Immobilization of N-Acetylcysteine on a Polyvinyl Chloride Substrate Prevents Bacterial Adhesion and Biofilm Formation. Langmuir, 2020, 36, 13023-13033.	3.5	6
22	Quantification of dose in plasma immersion ion implantation of polymer bone scaffolds: Probe diagnostics of a pulsed dielectric barrier discharge. Plasma Processes and Polymers, 2020, 17, 2000113.	3.0	8
23	Unifying the optical and electrical properties of amorphous carbon: application to hopping photoconductivity and memristance. Journal of Applied Physics, 2020, 128, 215109.	2.5	2
24	Electric field assisted copper diffusion in soda-lime glass: a study of ion migration, activation energy and ion interactions. Journal of the Ceramic Society of Japan, 2020, 128, 186-193.	1.1	1
25	The mechanical response of glassy carbon recovered from high pressure. Journal of Applied Physics, 2020, 127, .	2.5	6
26	Gas chromatographyâ€“mass spectrometry analyses of encapsulated stable perovskite solar cells. Science, 2020, 368, .	12.6	306
27	Extending the Debye scattering equation for diffraction from a cylindrically averaged group of atoms: detecting molecular orientation at an interface. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 468-473.	0.1	1
28	Atomic-Scale Patterning of Arsenic in Silicon by Scanning Tunneling Microscopy. ACS Nano, 2020, 14, 3316-3327.	14.6	36
29	Covalent Biofunctionalization of the Inner Surfaces of a Hollow-Fiber Capillary Bundle Using Packed-Bed Plasma Ion Implantation. ACS Applied Materials & Interfaces, 2020, 12, 32163-32174.	8.0	9
30	Covalent binding of molecules to plasma immersion ion implantationâ€activated microparticles for delivery into cells. Engineering Reports, 2020, 2, e12087.	1.7	1
31	Direct Determination of Total Hemispherical Emittance of Perovskite and Silicon Solar Cells. Cell Reports Physical Science, 2020, 1, 100008.	5.6	3
32	Imaging prior to radiotherapy impacts in-vitro survival. Physics and Imaging in Radiation Oncology, 2020, 16, 138-143.	2.9	2
33	The composition, structure and properties of four different glassy carbons. Journal of Non-Crystalline Solids, 2019, 522, 119561.	3.1	18
34	Single Step Plasma Process for Covalent Binding of Antimicrobial Peptides on Catheters To Suppress Bacterial Adhesion. ACS Applied Bio Materials, 2019, 2, 5739-5748.	4.6	17
35	In situ analysis of the structural transformation of glassy carbon under compression at room temperature. Physical Review B, 2019, 99, .	3.2	21
36	Carbon films deposited by mixed-mode high power impulse magnetron sputtering for high wear resistance: The role of argon incorporation. Thin Solid Films, 2019, 688, 137353.	1.8	20

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37	Light-gated amorphous carbon memristors with indium-free transparent electrodes. Carbon, 2019, 152, 59-65.	10.3	15
38	Electric field assisted ion exchange of silver in soda-lime glass: A study of ion depletion layers and interactions with potassium. Journal of Applied Physics, 2019, 125, .	2.5	15
39	Linker-protein G mediated functionalization of polystyrene-encapsulated upconversion nanoparticles for rapid gene assay using convective PCR. Mikrochimica Acta, 2019, 186, 346.	5.0	5
40	Temperature sensitivity and short-term memory in electroforming-free low power carbon memristors. Applied Physics Letters, 2019, 114, .	3.3	7
41	Tin oxide artificial synapses for low power temporal information processing. Nanotechnology, 2019, 30, 325201.	2.6	8
42	Chemical toughening of glass by potassium diffusion: how non-bridging oxygen and a surface calcium barrier limit the process. Journal of the Ceramic Society of Japan, 2019, 127, 98-104.	1.1	3
43	Conducting carbon films with covalent binding sites for biomolecule attachment. Journal of Applied Physics, 2019, 125, .	2.5	4
44	A plasma ion bombardment process enabling reagent-free covalent binding of multiple functional molecules onto magnetic particles. Materials Science and Engineering C, 2019, 98, 118-124.	7.3	6
45	The shear-driven transformation mechanism from glassy carbon to hexagonal diamond. Carbon, 2019, 142, 475-481.	10.3	22
46	Plasmaâ€Activated Substrate with a Tropoelastin Anchor for the Maintenance and Delivery of Multipotent Adult Progenitor Cells. Macromolecular Bioscience, 2019, 19, 1800233.	4.1	5
47	Fundamentals of siRNA and miRNA therapeutics and a review of targeted nanoparticle delivery systems in breast cancer. Biophysical Reviews, 2018, 10, 69-86.	3.2	146
48	Resistive switching and transport characteristics of an all-carbon memristor. Carbon, 2018, 136, 280-285.	10.3	34
49	External magnetic field increases both plasma generation and deposition rate in HiPIMS. Surface and Coatings Technology, 2018, 352, 671-679.	4.8	37
50	Sensory gating in bilayer amorphous carbon memristors. Nanoscale, 2018, 10, 20272-20278.	5.6	10
51	A thruster using magnetic reconnection to create a high-speed plasma jet. EPJ Applied Physics, 2018, 84, 20801.	0.7	7
52	Plasma processing of PDMS based spinal implants for covalent protein immobilization, cell attachment and spreading. Journal of Materials Science: Materials in Medicine, 2018, 29, 178.	3.6	7
53	Plasma ion implantation enabled bio-functionalization of PEEK improves osteoblastic activity. APL Bioengineering, 2018, 2, 026109.	6.2	31
54	Graphitization of Glassy Carbon after Compression at Room Temperature. Physical Review Letters, 2018, 120, 215701.	7.8	50

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55	Quantifying plasma immersion ion implantation of insulating surfaces in a dielectric barrier discharge: how to control the dose. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180263.	2.1	8
56	Models for the bystander effect in gradient radiation fields: Range and signalling type. Journal of Theoretical Biology, 2018, 455, 16-25.	1.7	10
57	Observation and characterization of memristive silver filaments in amorphous zinc-tin-oxide. MRS Communications, 2018, 8, 1104-1110.	1.8	2
58	HiPIMS carbon coatings show covalent protein binding that imparts enhanced hemocompatibility. Carbon, 2018, 139, 118-128.	10.3	27
59	Codeposition of amorphous zinc tin oxide using high power impulse magnetron sputtering: characterisation and doping. Semiconductor Science and Technology, 2017, 32, 045013.	2.0	2
60	The behaviour of arcs in carbon mixed-mode high-power impulse magnetron sputtering. Journal Physics D: Applied Physics, 2017, 50, 145205.	2.8	8
61	Laser fabrication of electrical feedthroughs in polymer encapsulations for active implantable medical devices. Medical Engineering and Physics, 2017, 42, 105-110.	1.7	5
62	Benzene and Pyridine on Silicon (001): A Trial Ground for Long-Range Corrections in Density Functional Theory. Journal of Physical Chemistry C, 2017, 121, 10484-10500.	3.1	2
63	Electrodeless plasma thrusters for spacecraft: a review. Plasma Science and Technology, 2017, 19, 083001.	1.5	81
64	Grid therapy using high definition multileaf collimators: realizing benefits of the bystander effect. Acta OncolÃ³gica, 2017, 56, 1048-1059.	1.8	22
65	Evolution of target condition in reactive HiPIMS as a function of duty cycle: An opportunity for refractive index grading. Journal of Applied Physics, 2017, 121, .	2.5	24
66	Plasma treatments of dressings for wound healing: a review. Biophysical Reviews, 2017, 9, 895-917.	3.2	22
67	Dosimetric consequences of gold nanoparticle clustering during photon irradiation. Medical Physics, 2017, 44, 6560-6569.	3.0	18
68	Antireflection coating of barriers to enhance electron tunnelling: exploring the matter wave analogy of superluminal optical phase velocity. Scientific Reports, 2017, 7, 12772.	3.3	7
69	Structural Analysis and Protein Functionalization of Electroconductive Polypyrrole Films Modified by Plasma Immersion Ion Implantation. ACS Biomaterials Science and Engineering, 2017, 3, 2247-2258.	5.2	10
70	AÂpost Gurney quantum mechanical perspective on the electrolysis of water: ion neutralization in solution. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170371.	2.1	2
71	Corrections to Grahamâ€™s Law of Effusion for Predicting Leak Rates Through Hermetic Seals. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 379-386.	2.5	4
72	Is There More to Radiotherapy than Hitting the Target?. Journal of Nursing and Health Studies, 2017, 02, .	0.1	0

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73	Experimental investigation of plasma-immersion ion implantation treatment for biocompatible polyurethane implants production. IOP Conference Series: Materials Science and Engineering, 2016, 123, 012003.	0.6	1
74	Nanocrystalline hexagonal diamond formed from glassy carbon. Scientific Reports, 2016, 6, 37232.	3.3	66
75	A HiPIMS plasma source with a magnetic nozzle that accelerates ions: application in a thruster. EPJ Applied Physics, 2016, 76, 30801.	0.7	7
76	Memristor and selector devices fabricated from HfO2â^'xNx. Applied Physics Letters, 2016, 108, .	3.3	30
77	Covalent linker-free immobilization of conjugatable oligonucleotides on polypropylene surfaces. RSC Advances, 2016, 6, 83328-83336.	3.6	12
78	A simulation of gas flow: The dependence of the tangential momentum accommodation coefficient on molecular mass. Physics of Fluids, 2016, 28, .	4.0	15
79	Small field detector correction factors: effects of the flattening filter for Elekta and Varian linear accelerators. Journal of Applied Clinical Medical Physics, 2016, 17, 223-235.	1.9	22
80	Pulsed external magnetic fields increase the deposition rate in reactive HiPIMS while preserving stoichiometry: An application to amorphous HfO2. Journal of Applied Physics, 2016, 120, .	2.5	9
81	Mixed-mode high-power impulse magnetron sputter deposition of tetrahedral amorphous carbon with pulse-length control of ionization. Journal of Applied Physics, 2016, 119, .	2.5	33
82	Reaction paths of phosphine dissociation on silicon (001). Journal of Chemical Physics, 2016, 144, 014705.	3.0	36
83	A centre-triggered magnesium fuelled cathodic arc thruster uses sublimation to deliver a record high specific impulse. Applied Physics Letters, 2016, 109, .	3.3	8
84	Duty cycle control in reactive high-power impulse magnetron sputtering of hafnium and niobium. Journal Physics D: Applied Physics, 2016, 49, 245201.	2.8	12
85	Dose enhancement and cytotoxicity of gold nanoparticles in colon cancer cells when irradiated with kiloâ€•and megaâ€•voltage radiation. Bioengineering and Translational Medicine, 2016, 1, 94-102.	7.1	24
86	Small field correction factors for the IBA Razor. Physica Medica, 2016, 32, 1025-1029.	0.7	13
87	Predator-prey dynamics stabilised by nonlinearity explain oscillations in dust-forming plasmas. Scientific Reports, 2016, 6, 24040.	3.3	10
88	Nanoscale Capillary Flows in Alumina: Testing the Limits of Classical Theory. Journal of Physical Chemistry Letters, 2016, 7, 2647-2652.	4.6	13
89	The mechanical properties of energetically deposited non-crystalline carbon thin films. Carbon, 2016, 98, 391-396.	10.3	5
90	Optimizing HiPIMS pressure for deposition of high-k (k = 18.3) amorphous HfO2. Applied Surface Science, 2016, 365, 336-341.	6.1	9

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91	Effects of pulse voltage and deposition time on the adhesion strength of graded metal/carbon films deposited on bendable stainless steel foils by hybrid cathodic arc â€“ glow discharge plasma assisted chemical vapor deposition. Applied Surface Science, 2016, 366, 535-544.	6.1	4
92	The physics of confined flow and its application to water leaks, water permeation and water nanoflows: a review. Reports on Progress in Physics, 2016, 79, 025901.	20.1	33
93	Plasma immersion ion implantation of a two-phase blend of polysulfone and polyvinylpyrrolidone. Materials and Design, 2016, 97, 381-391.	7.0	8
94	Back Cover: Plasma Process. Polym. 2â•2015. Plasma Processes and Polymers, 2015, 12, 194-194.	3.0	0
95	Influence of nitrogen-related defects on optical and electrical behaviour in HfO2â•xNx deposited by high-power impulse magnetron sputtering. Applied Physics Letters, 2015, 107, .	3.3	11
96	Imaging dose affects in vitro survival following subsequent therapeutic irradiation. Biomedical Physics and Engineering Express, 2015, 1, 045016.	1.2	1
97	Co-deposition of band-gap tuned Zn_{1â•x}Mg_xO using high impulse power- and dc-magnetron sputtering. Journal Physics D: Applied Physics, 2015, 48, 135301.	2.8	8
98	The role of pulse length in target poisoning during reactive HiPIMS: application to amorphous HfO₂. Plasma Sources Science and Technology, 2015, 24, 035015.	3.1	35
99	On the use of test gases of various radii to investigate molecular sieving in leak channels. , 2015, 2015, 813-6.		0
100	Enhanced water vapour flow in silica microchannels and interdiffusive water vapour flow through anodic aluminium oxide (AAO) membranes. Proceedings of SPIE, 2015, , .	0.8	0
101	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation. Proceedings of SPIE, 2015, , .	0.8	1
102	Bio-Activation of Polyether Ether Ketone Using Plasma Immersion Ion Implantation: A Kinetic Model. Plasma Processes and Polymers, 2015, 12, 180-193.	3.0	24
103	Reaction pathways for pyridine adsorption on silicon (0â€‰0â€‰1). Journal of Physics Condensed Matter, 2015, 27, 054001.	1.8	3
104	On the measurement of dose in-air for small radiation fields: choice of mini-phantom material. Physics in Medicine and Biology, 2015, 60, 2391-2402.	3.0	2
105	Covalent immobilization of enzymes and yeast: Towards a continuous simultaneous saccharification and fermentation process for cellulosic ethanol. Biomass and Bioenergy, 2015, 81, 234-241.	5.7	19
106	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.	6.6	38
107	Depth-Resolved Structural and Compositional Characterization of Ion-Implanted Polystyrene that Enables Direct Covalent Immobilization of Biomolecules. Journal of Physical Chemistry C, 2015, 119, 16793-16803.	3.1	21
108	Orientation and conformation of anti-CD34 antibody immobilised on untreated and plasma treated polycarbonate. Acta Biomaterialia, 2015, 19, 128-137.	8.3	28

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109	A feedback model of magnetron sputtering plasmas in HIPIMS. Plasma Sources Science and Technology, 2015, 24, 025018.	3.1	9
110	Mechanical Properties of Plasma Immersion Ion Implanted PEEK for Bioactivation of Medical Devices. ACS Applied Materials & Interfaces, 2015, 7, 23029-23040.	8.0	44
111	Science of Water Leaks: Validated Theory for Moisture Flow in Microchannels and Nanochannels. Langmuir, 2015, 31, 11740-11747.	3.5	14
112	Atomic layer deposition of Al2O3 and Al2O3/TiO2 barrier coatings to reduce the water vapour permeability of polyetheretherketone. Thin Solid Films, 2015, 591, 131-136.	1.8	27
113	Enhanced Water Vapor Flow in Silica Microchannels: The Effect of Adsorbed Water on Tangential Momentum Accommodation. Journal of Physical Chemistry C, 2015, 119, 22072-22079.	3.1	17
114	Temperature Activated Diffusion of Radicals through Ion Implanted Polymers. ACS Applied Materials & Interfaces, 2015, 7, 26340-26345.	8.0	16
115	Synthesis of highly tetrahedral amorphous carbon by mixed-mode HiPIMS sputtering. Journal Physics D: Applied Physics, 2015, 48, 442001.	2.8	25
116	Graded metal carbon protein binding films prepared by hybrid cathodic arc â€" Glow discharge plasma assisted chemical vapor deposition. Surface and Coatings Technology, 2015, 265, 222-234.	4.8	10
117	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.	6.6	162
118	Over-response of synthetic microDiamond detectors in small radiation fields. Physics in Medicine and Biology, 2014, 59, 5873-5881.	3.0	76
119	Small field inâ€air output factors: The role of miniphantom design and dosimeter type. Medical Physics, 2014, 41, 021723.	3.0	7
120	A combinatorial comparison of DC and high power impulse magnetron sputtered Cr2AlC. Surface and Coatings Technology, 2014, 259, 746-750.	4.8	13
121	Ion implantation treatment of beads for covalent binding of molecules: Application to bioethanol production using thermophilic beta-glucosidase. Enzyme and Microbial Technology, 2014, 54, 20-24.	3.2	18
122	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.	6.6	106
123	A combinatorial investigation of sputtered Taâ€“Alâ€“C thin films. Thin Solid Films, 2014, 558, 99-103.	1.8	1
124	Can small field diode correction factors be applied universally?. Radiotherapy and Oncology, 2014, 112, 442-446.	0.6	21
125	Revisiting Maxwellâ€™s accommodation coefficient: A study of nitrogen flow in a silica microtube across all flow regimes. Annals of Physics, 2014, 351, 828-836.	2.8	8
126	Cell surface antigen profiling using a novel type of antibody array immobilised to plasma ion-implanted polycarbonate. Cellular and Molecular Life Sciences, 2014, 71, 3841-3857.	5.4	10

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127	Increasing binding density of yeast cells by control of surface charge with allylamine grafting to ion modified polymer surfaces. Colloids and Surfaces B: Biointerfaces, 2014, 122, 537-544.	5.0	3
128	Cluster of differentiation antibody microarrays on plasma immersion ion implanted polycarbonate. Materials Science and Engineering C, 2014, 35, 434-440.	7.3	16
129	Profiling of the secretome of human cancer cells: Preparation of supernatant for proteomic analysis. Electrophoresis, 2014, 35, 2626-2633.	2.4	5
130	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.	6.6	53
131	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. Biomaterials, 2014, 35, 6797-6809.	11.4	74
132	Sticky nano-thin films for the adhesion of polymers. Applied Surface Science, 2013, 285, 893-899.	6.1	5
133	Influence of pH on yeast immobilization on polystyrene surfaces modified by energetic ion bombardment. Colloids and Surfaces B: Biointerfaces, 2013, 104, 145-152.	5.0	22
134	An energy landscape for carbon network solids. Carbon, 2013, 63, 416-422.	10.3	8
135	Molecular adsorption on silicon (001): A systematic evaluation of size effects in slab and cluster models. AIP Advances, 2013, 3, 042117.	1.3	13
136	The Vroman effect: Competitive protein exchange with dynamic multilayer protein aggregates. Colloids and Surfaces B: Biointerfaces, 2013, 103, 395-404.	5.0	240
137	Native oxides and their effect on electrochemical characteristics of ta-C:N films. Surface and Coatings Technology, 2013, 228, S486-S489.	4.8	1
138	An integrated solution for rapid biosensing with robust linker free covalent bindingsurfaces. Biosensors and Bioelectronics, 2013, 42, 447-452.	10.1	8
139	Autohesion of semi-crystalline PEEK near and under the glass transition temperature. Applied Surface Science, 2013, 282, 571-577.	6.1	21
140	Twisted pair of optic fibers for background removal in radiation fields. Applied Optics, 2013, 52, 5500.	1.8	1
141	Ion implanted, radical-rich surfaces for the rapid covalent immobilization of active biomolecules. , 2013, , .		2
142	Characterization of small-field stereotactic radiosurgery beams with modern detectors. Physics in Medicine and Biology, 2013, 58, 7595-7608.	3.0	45
143	Electronic structure of phosphorus and arsenicÎ´-doped germanium. Physical Review B, 2013, 88, .	3.2	4
144	Electronic structure of two interacting phosphorus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î´</mml:mi></mml:math>-doped layers in silicon. Physical Review B, 2013, 87, .	3.2	20

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145	A method to remove residual signals in fibre optic luminescence dosimeters. Physics in Medicine and Biology, 2013, 58, 1581-1590.	3.0	2
146	CelB and Î²-glucosidase immobilization for carboxymethyl cellulose hydrolysis. RSC Advances, 2013, 3, 23604.	3.6	13
147	Array of square waveguides for scintillation dosimetry in external radiotherapy. Journal of Physics: Conference Series, 2013, 444, 012061.	0.4	0
148	Scintillators for 3D and 4D dosimetry: current status and future potential for clinical translation. Journal of Physics: Conference Series, 2013, 444, 012075.	0.4	0
149	Mechanisms for Covalent Immobilization of Horseradish Peroxidase on Ion-Beam-Treated Polyethylene. Scientifica, 2012, 2012, 1-28.	1.7	22
150	The time-dependent development of electric double-layers in pure water at metal electrodes: the effect of an applied voltage on the local pH. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 18-34.	2.1	22
151	Ion-implanted polytetrafluoroethylene enhances Saccharomyces cerevisiae biofilm formation for improved immobilization. Journal of the Royal Society Interface, 2012, 9, 2923-2935.	3.4	16
152	Reply to the comment on: â€˜Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challengeâ€™. Physics in Medicine and Biology, 2012, 57, 3667-3673.	3.0	4
153	Optimization of temporal dose modulation: Comparison of theory and experiment. Medical Physics, 2012, 39, 3181-3188.	3.0	7
154	Technological advances for polymers in active implantable medical devices. , 2012, , 239-272.		2
155	Fuel Selection for Pulsed Cathodic Arc Thrusters. Journal of Propulsion and Power, 2012, 28, 218-221.	2.2	6
156	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.	3.0	106
157	Changes in lung tumor shape during respiration. Physics in Medicine and Biology, 2012, 57, 919-935.	3.0	13
158	Light propagation in multimoded square hollow waveguides. Journal of Optics (United Kingdom), 2012, 14, 105703.	2.2	0
159	Realâ€time scintillation array dosimetry for radiotherapy: The advantages of photomultiplier detectors. Medical Physics, 2012, 39, 1688-1695.	3.0	24
160	Nonequilibrium Route to Nanodiamond with Astrophysical Implications. Physical Review Letters, 2012, 108, 075503.	7.8	20
161	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. Acta Biomaterialia, 2012, 8, 2538-2548.	8.3	40
162	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-Type Doping of Germanium from Phosphine: Early Stages Resolved at the Atomic Level. Physical Review Letters, 2012, 109, 076101.	7.8	18

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163	InÂvivo biocompatibility of a plasma-activated, coronary stent coating. Biomaterials, 2012, 33, 7984-7992.	11.4	57
164	Linker Free Nitrogen Doped Plasma Polymer Biosensors with Label Free Ellipsometric Diagnosis Technique. Procedia Chemistry, 2012, 6, 149-154.	0.7	0
165	Cell Adhesion to PEEK Treated by Plasma Immersion Ion Implantation and Deposition for Active Medical Implants. Plasma Processes and Polymers, 2012, 9, 355-362.	3.0	56
166	Free Radicals Generated by Ion Bombardment of a Semiâ€Crystalline PEEK Surface. Plasma Processes and Polymers, 2012, 9, 174-179.	3.0	14
167	Optimisation of exposure conditions for in vitro radiobiology experiments. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 151-157.	1.3	17
168	Free radical kinetics in a plasma immersion ion implanted polystyrene: Theory and experiment. Nuclear Instruments & Methods in Physics Research B, 2012, 280, 26-35.	1.4	55
169	Comparison on protein adsorption properties of diamond-like carbon and nitrogen-containing plasma polymer surfaces. Thin Solid Films, 2012, 520, 3021-3025.	1.8	15
170	Dynamic modeling of lung tumor motion during respiration. Physics in Medicine and Biology, 2011, 56, 2999-3013.	3.0	20
171	Substrate orientation effects on the nucleation and growth of the Mn+1AXn phase Ti2AlC. Journal of Applied Physics, 2011, 109, 014903.	2.5	18
172	Carbon diffusion in alumina from carbon and Ti₂AlC thin films. Journal of Applied Physics, 2011, 109, 083503.	2.5	14
173	Optimizing efficiency of Ti ionized deposition in HIPIMS. Plasma Sources Science and Technology, 2011, 20, 035021.	3.1	22
174	Linker-free covalent thermophilic Î²-glucosidase functionalized polymeric surfaces. Journal of Materials Chemistry, 2011, 21, 17832.	6.7	16
175	Controlled glow to arc transition in sputtering for high rate deposition of carbon films. Diamond and Related Materials, 2011, 20, 68-74.	3.9	40
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