

David McKenzie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

554
papers

17,306
citations

65
h-index

103
g-index

577
ext. papers

18,623
ext. citations

4.2
avg. IF

6.58
L-index

#	Paper	IF	Citations
554	Radiation responses of cancer and normal cells to split dose fractions with uniform and grid fields: increasing the therapeutic ratio.. <i>International Journal of Radiation Biology</i> , 2022 , 1-8	2.9	
553	The gray body approximation for radiative heat transfer in evacuated tube solar collectors: Effects of envelope infrared transparency. <i>Journal of Applied Physics</i> , 2022 , 131, 125001	2.5	
552	Publisher's Note: The gray body approximation for radiative heat transfer in evacuated tube solar collectors: Effects of envelope infrared transparency[J. Appl. Phys. 131, 125001 (2022)]. <i>Journal of Applied Physics</i> , 2022 , 131, 189901	2.5	
551	Recent progress and future prospects of perovskite tandem solar cells. <i>Applied Physics Reviews</i> , 2021 , 8, 041307	17.3	15
550	External magnetic field guiding in HiPIMS to control sp ³ fraction of tetrahedral amorphous carbon films. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 045002	3	6
549	Quantifying Moisture Penetration in Encapsulated Devices by Heavy Water Mass Spectrometry: A Standard Moisture Leak Using Poly(ether-ether-ketone). <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13666-13675	9.5	3
548	Plasma ion implantation of 3D-printed PEEK creates optimal host conditions for bone ongrowth and mineralisation. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2000219	3.4	1
547	Neutron diffraction discriminates between models for the nanoarchitecture of graphene sheets in glassy carbon. <i>Journal of Non-Crystalline Solids</i> , 2021 , 554, 120610	3.9	4
546	Room-Temperature Negative Differential Resistance in Amorphous Carbon: The Role of Electron Trapping Defects at Device Interfaces. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 720-725	2.9	1
545	Silicate glass-to-glass hermetic bonding for encapsulation of next-generation optoelectronics: A review. <i>Materials Today</i> , 2021 , 47, 131-155	21.8	2
544	Unifying the optical and electrical properties of amorphous carbon: application to hopping photoconductivity and memristance. <i>Journal of Applied Physics</i> , 2020 , 128, 215109	2.5	0
543	Electric field assisted copper diffusion in soda-lime glass: a study of ion migration, activation energy and ion interactions. <i>Journal of the Ceramic Society of Japan</i> , 2020 , 128, 186-193	1	1
542	The mechanical response of glassy carbon recovered from high pressure. <i>Journal of Applied Physics</i> , 2020 , 127, 145105	2.5	4
541	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. <i>Science</i> , 2020 , 368,	33.3	167
540	Extending the Debye scattering equation for diffraction from a cylindrically averaged group of atoms: detecting molecular orientation at an interface. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020 , 76, 468-473	1.7	1
539	Atomic-Scale Patterning of Arsenic in Silicon by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2020 , 14, 3316-3327	16.7	18
538	Covalent Biofunctionalization of the Inner Surfaces of a Hollow-Fiber Capillary Bundle Using Packed-Bed Plasma Ion Implantation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32163-32174	9.5	3

537	Covalent binding of molecules to plasma immersion ion implantation-activated microparticles for delivery into cells. <i>Engineering Reports</i> , 2020 , 2, e12087	1.2	1
536	Direct Determination of Total Hemispherical Emittance of Perovskite and Silicon Solar Cells. <i>Cell Reports Physical Science</i> , 2020 , 1, 100008	6.1	2
535	Imaging prior to radiotherapy impacts survival. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 16, 138-143	1.43	2
534	Applying the Hashin-Shtrikman bounds to predict stiffness of multicomponent 3D printed structures: Towards regenerative orthopaedic medicine. <i>Journal of Composite Materials</i> , 2020 , 54, 2173-2183	2.7	1
533	The importance of total hemispherical emittance in evaluating performance of building-integrated silicon and perovskite solar cells in insulated glazings. <i>Applied Energy</i> , 2020 , 276, 115490	10.7	5
532	Investigation of Room Temperature Formation of the Ultra-Hard Nanocarbons Diamond and Lonsdaleite. <i>Small</i> , 2020 , 16, e2004695	11	5
531	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	3.7	15
530	Atmospheric Pressure Plasma Jet Treatment of Polymers Enables Reagent-Free Covalent Attachment of Biomolecules for Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38730-38743	9.5	9
529	Covalent Immobilization of -Acetylcysteine on a Polyvinyl Chloride Substrate Prevents Bacterial Adhesion and Biofilm Formation. <i>Langmuir</i> , 2020 , 36, 13023-13033	4	1
528	Quantification of dose in plasma immersion ion implantation of polymer bone scaffolds: Probe diagnostics of a pulsed dielectric barrier discharge. <i>Plasma Processes and Polymers</i> , 2020 , 17, 2000113	3.4	1
527	In situ analysis of the structural transformation of glassy carbon under compression at room temperature. <i>Physical Review B</i> , 2019 , 99,	3.3	17
526	Carbon films deposited by mixed-mode high power impulse magnetron sputtering for high wear resistance: The role of argon incorporation. <i>Thin Solid Films</i> , 2019 , 688, 137353	2.2	12
525	Light-gated amorphous carbon memristors with indium-free transparent electrodes. <i>Carbon</i> , 2019 , 152, 59-65	10.4	8
524	Electric field assisted ion exchange of silver in soda-lime glass: A study of ion depletion layers and interactions with potassium. <i>Journal of Applied Physics</i> , 2019 , 125, 175104	2.5	13
523	Linker-protein G mediated functionalization of polystyrene-encapsulated upconversion nanoparticles for rapid gene assay using convective PCR. <i>Mikrochimica Acta</i> , 2019 , 186, 346	5.8	4
522	Temperature sensitivity and short-term memory in electroforming-free low power carbon memristors. <i>Applied Physics Letters</i> , 2019 , 114, 163504	3.4	5
521	Tin oxide artificial synapses for low power temporal information processing. <i>Nanotechnology</i> , 2019 , 30, 325201	3.4	6
520	Chemical toughening of glass by potassium diffusion: how non-bridging oxygen and a surface calcium barrier limit the process. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 98-104	1	1

519	Conducting carbon films with covalent binding sites for biomolecule attachment. <i>Journal of Applied Physics</i> , 2019 , 125, 075302	2.5	2
518	The composition, structure and properties of four different glassy carbons. <i>Journal of Non-Crystalline Solids</i> , 2019 , 522, 119561	3.9	10
517	Single Step Plasma Process for Covalent Binding of Antimicrobial Peptides on Catheters To Suppress Bacterial Adhesion.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5739-5748	4.1	12
516	A plasma ion bombardment process enabling reagent-free covalent binding of multiple functional molecules onto magnetic particles. <i>Materials Science and Engineering C</i> , 2019 , 98, 118-124	8.3	3
515	The shear-driven transformation mechanism from glassy carbon to hexagonal diamond. <i>Carbon</i> , 2019 , 142, 475-481	10.4	14
514	Plasma-Activated Substrate with a Tropoelastin Anchor for the Maintenance and Delivery of Multipotent Adult Progenitor Cells. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800233	5.5	3
513	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	3.7	107
512	Resistive switching and transport characteristics of an all-carbon memristor. <i>Carbon</i> , 2018 , 136, 280-285	10.4	23
511	External magnetic field increases both plasma generation and deposition rate in HiPIMS. <i>Surface and Coatings Technology</i> , 2018 , 352, 671-679	4.4	22
510	Quantifying plasma immersion ion implantation of insulating surfaces in a dielectric barrier discharge: how to control the dose. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180263	2.4	5
509	Models for the bystander effect in gradient radiation fields: Range and signalling type. <i>Journal of Theoretical Biology</i> , 2018 , 455, 16-25	2.3	8
508	Observation and characterization of memristive silver filaments in amorphous zinc-tin-oxide. <i>MRS Communications</i> , 2018 , 8, 1104-1110	2.7	1
507	HiPIMS carbon coatings show covalent protein binding that imparts enhanced hemocompatibility. <i>Carbon</i> , 2018 , 139, 118-128	10.4	21
506	Sensory gating in bilayer amorphous carbon memristors. <i>Nanoscale</i> , 2018 , 10, 20272-20278	7.7	9
505	A thruster using magnetic reconnection to create a high-speed plasma jet. <i>EPJ Applied Physics</i> , 2018 , 84, 20801	1.1	4
504	Plasma processing of PDMS based spinal implants for covalent protein immobilization, cell attachment and spreading. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 178	4.5	6
503	Plasma ion implantation enabled bio-functionalization of PEEK improves osteoblastic activity. <i>APL Bioengineering</i> , 2018 , 2, 026109	6.6	16
502	Graphitization of Glassy Carbon after Compression at Room Temperature. <i>Physical Review Letters</i> , 2018 , 120, 215701	7.4	37

501	Codeposition of amorphous zinc tin oxide using high power impulse magnetron sputtering: characterisation and doping. <i>Semiconductor Science and Technology</i> , 2017 , 32, 045013	1.8	2
500	The behaviour of arcs in carbon mixed-mode high-power impulse magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 145205	3	5
499	Laser fabrication of electrical feedthroughs in polymer encapsulations for active implantable medical devices. <i>Medical Engineering and Physics</i> , 2017 , 42, 105-110	2.4	3
498	Benzene and Pyridine on Silicon (001): A Trial Ground for Long-Range Corrections in Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10484-10500	3.8	1
497	Electrodeless plasma thrusters for spacecraft: a review. <i>Plasma Science and Technology</i> , 2017 , 19, 083001	1.5	54
496	Grid therapy using high definition multileaf collimators: realizing benefits of the bystander effect. <i>Acta Oncologica</i> , 2017 , 56, 1048-1059	3.2	12
495	Evolution of target condition in reactive HiPIMS as a function of duty cycle: An opportunity for refractive index grading. <i>Journal of Applied Physics</i> , 2017 , 121, 171909	2.5	20
494	Plasma treatments of dressings for wound healing: a review. <i>Biophysical Reviews</i> , 2017 , 9, 895-917	3.7	15
493	Dosimetric consequences of gold nanoparticle clustering during photon irradiation. <i>Medical Physics</i> , 2017 , 44, 6560-6569	4.4	12
492	Antireflection coating of barriers to enhance electron tunnelling: exploring the matter wave analogy of superluminal optical phase velocity. <i>Scientific Reports</i> , 2017 , 7, 12772	4.9	6
491	Structural Analysis and Protein Functionalization of Electroconductive Polypyrrole Films Modified by Plasma Immersion Ion Implantation. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2247-2258	5.5	8
490	Alpost Gurney quantum mechanical perspective on the electrolysis of water: ion neutralization in solution. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20170371	2.4	2
489	Corrections to Graham's Law of Effusion for Predicting Leak Rates Through Hermetic Seals. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017 , 7, 379-386	1.7	3
488	Predator-prey dynamics stabilised by nonlinearity explain oscillations in dust-forming plasmas. <i>Scientific Reports</i> , 2016 , 6, 24040	4.9	7
487	Nanoscale Capillary Flows in Alumina: Testing the Limits of Classical Theory. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2647-52	6.4	8
486	The mechanical properties of energetically deposited non-crystalline carbon thin films. <i>Carbon</i> , 2016 , 98, 391-396	10.4	5
485	Optimizing HiPIMS pressure for deposition of high-k (k = 18.3) amorphous HfO ₂ . <i>Applied Surface Science</i> , 2016 , 365, 336-341	6.7	8
484	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 glow discharge plasma assisted chemical vapor deposition. <i>Applied Surface Science</i> , 2016 , 366, 535-544	6.7	3

483	The physics of confined flow and its application to water leaks, water permeation and water nanoflows: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 025901	14.4	24
482	Plasma immersion ion implantation of a two-phase blend of polysulfone and polyvinylpyrrolidone. <i>Materials and Design</i> , 2016 , 97, 381-391	8.1	7
481	Experimental investigation of plasma-immersion ion implantation treatment for biocompatible polyurethane implants production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 123, 012003	0.4	1
480	Nanocrystalline hexagonal diamond formed from glassy carbon. <i>Scientific Reports</i> , 2016 , 6, 37232	4.9	53
479	A HiPIMS plasma source with a magnetic nozzle that accelerates ions: application in a thruster. <i>EPJ Applied Physics</i> , 2016 , 76, 30801	1.1	7
478	Memristor and selector devices fabricated from HfO ₂ /N _x . <i>Applied Physics Letters</i> , 2016 , 108, 143504	3.4	24
477	Covalent linker-free immobilization of conjugatable oligonucleotides on polypropylene surfaces. <i>RSC Advances</i> , 2016 , 6, 83328-83336	3.7	11
476	A simulation of gas flow: The dependence of the tangential momentum accommodation coefficient on molecular mass. <i>Physics of Fluids</i> , 2016 , 28, 097101	4.4	11
475	Small field detector correction factors: effects of the flattening filter for Elekta and Varian linear accelerators. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 223-235	2.3	17
474	Pulsed external magnetic fields increase the deposition rate in reactive HiPIMS while preserving stoichiometry: An application to amorphous HfO ₂ . <i>Journal of Applied Physics</i> , 2016 , 120, 103301	2.5	5
473	Mixed-mode high-power impulse magnetron sputter deposition of tetrahedral amorphous carbon with pulse-length control of ionization. <i>Journal of Applied Physics</i> , 2016 , 119, 155303	2.5	25
472	Reaction paths of phosphine dissociation on silicon (001). <i>Journal of Chemical Physics</i> , 2016 , 144, 014705	3.9	23
471	A centre-triggered magnesium fuelled cathodic arc thruster uses sublimation to deliver a record high specific impulse. <i>Applied Physics Letters</i> , 2016 , 109, 094101	3.4	7
470	Duty cycle control in reactive high-power impulse magnetron sputtering of hafnium and niobium. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 245201	3	10
469	Dose enhancement and cytotoxicity of gold nanoparticles in colon cancer cells when irradiated with kilo- and mega-voltage radiation. <i>Bioengineering and Translational Medicine</i> , 2016 , 1, 94-102	14.8	18
468	Small field correction factors for the IBA Razor. <i>Physica Medica</i> , 2016 , 32, 1025-9	2.7	12
467	On the measurement of dose in-air for small radiation fields: choice of mini-phantom material. <i>Physics in Medicine and Biology</i> , 2015 , 60, 2391-402	3.8	2
466	Covalent immobilization of enzymes and yeast: Towards a continuous simultaneous saccharification and fermentation process for cellulosic ethanol. <i>Biomass and Bioenergy</i> , 2015 , 81, 234-241	5.3	14

465	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	6.8	32
464	Depth-Resolved Structural and Compositional Characterization of Ion-Implanted Polystyrene that Enables Direct Covalent Immobilization of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16793-16803	3.8	17
463	Orientation and conformation of anti-CD34 antibody immobilised on untreated and plasma treated polycarbonate. <i>Acta Biomaterialia</i> , 2015 , 19, 128-37	10.8	27
462	A feedback model of magnetron sputtering plasmas in HIPIMS. <i>Plasma Sources Science and Technology</i> , 2015 , 24, 025018	3.5	4
461	Mechanical Properties of Plasma Immersion Ion Implanted PEEK for Bioactivation of Medical Devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23029-40	9.5	39
460	Science of Water Leaks: Validated Theory for Moisture Flow in Microchannels and Nanochannels. <i>Langmuir</i> , 2015 , 31, 11740-7	4	11
459	Atomic layer deposition of Al ₂ O ₃ and Al ₂ O ₃ /TiO ₂ barrier coatings to reduce the water vapour permeability of polyetheretherketone. <i>Thin Solid Films</i> , 2015 , 591, 131-136	2.2	21
458	Enhanced Water Vapor Flow in Silica Microchannels: The Effect of Adsorbed Water on Tangential Momentum Accommodation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22072-22079	3.8	14
457	Temperature Activated Diffusion of Radicals through Ion Implanted Polymers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26340-5	9.5	13
456	Synthesis of highly tetrahedral amorphous carbon by mixed-mode HiPIMS sputtering. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 442001	3	20
455	Graded metal carbon protein binding films prepared by hybrid cathodic arc glow discharge plasma assisted chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2015 , 265, 222-234	4.4	8
454	Electrochemical corrosion behavior of biodegradable Mg ₉₂ RE and Mg ₉₂ Zn ₈ r alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , 2015 , 91, 160-184	6.8	129
453	Back Cover: Plasma Process. Polym. 2015. <i>Plasma Processes and Polymers</i> , 2015 , 12, 194-194	3.4	
452	Influence of nitrogen-related defects on optical and electrical behaviour in HfO ₂ /N _x deposited by high-power impulse magnetron sputtering. <i>Applied Physics Letters</i> , 2015 , 107, 112903	3.4	10
451	Imaging dose affects in vitro survival following subsequent therapeutic irradiation. <i>Biomedical Physics and Engineering Express</i> , 2015 , 1, 045016	1.5	1
450	Co-deposition of band-gap tuned Zn _{1-x} Mg _x O using high impulse power- and dc-magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 135301	3	5
449	The role of pulse length in target poisoning during reactive HiPIMS: application to amorphous HfO ₂ . <i>Plasma Sources Science and Technology</i> , 2015 , 24, 035015	3.5	29
448	On the use of test gases of various radii to investigate molecular sieving in leak channels. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 813-6	0.9	

447	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation 2015 ,		1
446	Bio-Activation of Polyether Ether Ketone Using Plasma Immersion Ion Implantation: A Kinetic Model. <i>Plasma Processes and Polymers</i> , 2015 , 12, 180-193	3.4	22
445	Reaction pathways for pyridine adsorption on silicon (0 0 1). <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 054001	1.8	3
444	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	6.8	80
443	A combinatorial investigation of sputtered TaAlC thin films. <i>Thin Solid Films</i> , 2014 , 558, 99-103	2.2	1
442	Can small field diode correction factors be applied universally?. <i>Radiotherapy and Oncology</i> , 2014 , 112, 442-6	5.3	20
441	Revisiting Maxwell's accommodation coefficient: A study of nitrogen flow in a silica microtube across all flow regimes. <i>Annals of Physics</i> , 2014 , 351, 828-836	2.5	7
440	Cell surface antigen profiling using a novel type of antibody array immobilised to plasma ion-implanted polycarbonate. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 3841-57	10.3	8
439	Increasing binding density of yeast cells by control of surface charge with allylamine grafting to ion modified polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 537-544	6	3
438	Cluster of differentiation antibody microarrays on plasma immersion ion implanted polycarbonate. <i>Materials Science and Engineering C</i> , 2014 , 35, 434-40	8.3	14
437	Profiling of the secretome of human cancer cells: preparation of supernatant for proteomic analysis. <i>Electrophoresis</i> , 2014 , 35, 2626-33	3.6	4
436	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of MgZnRE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , 2014 , 86, 239-251	6.8	40
435	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. <i>Biomaterials</i> , 2014 , 35, 6797-809	15.6	65
434	Over-response of synthetic microDiamond detectors in small radiation fields. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5873-81	3.8	65
433	Small field in-air output factors: the role of miniphantom design and dosimeter type. <i>Medical Physics</i> , 2014 , 41, 021723	4.4	7
432	A combinatorial comparison of DC and high power impulse magnetron sputtered Cr ₂ AlC. <i>Surface and Coatings Technology</i> , 2014 , 259, 746-750	4.4	13
431	Ion implantation treatment of beads for covalent binding of molecules: application to bioethanol production using thermophilic beta-glucosidase. <i>Enzyme and Microbial Technology</i> , 2014 , 54, 20-4	3.8	17
430	Sticky nano-thin films for the adhesion of polymers. <i>Applied Surface Science</i> , 2013 , 285, 893-899	6.7	4

429	Influence of pH on yeast immobilization on polystyrene surfaces modified by energetic ion bombardment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 104, 145-52	6	18
428	An energy landscape for carbon network solids. <i>Carbon</i> , 2013 , 63, 416-422	10.4	8
427	Molecular adsorption on silicon (001): A systematic evaluation of size effects in slab and cluster models. <i>AIP Advances</i> , 2013 , 3, 042117	1.5	13
426	The Vroman effect: competitive protein exchange with dynamic multilayer protein aggregates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 395-404	6	189
425	Native oxides and their effect on electrochemical characteristics of ta-C:N films. <i>Surface and Coatings Technology</i> , 2013 , 228, S486-S489	4.4	1
424	An integrated solution for rapid biosensing with robust linker free covalent binding surfaces. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 447-52	11.8	7
423	Autohesion of semi-crystalline PEEK near and under the glass transition temperature. <i>Applied Surface Science</i> , 2013 , 282, 571-577	6.7	17
422	Twisted pair of optic fibers for background removal in radiation fields. <i>Applied Optics</i> , 2013 , 52, 5500-7	1.7	1
421	Ion implanted, radical-rich surfaces for the rapid covalent immobilization of active biomolecules 2013 ,		2
420	Characterization of small-field stereotactic radiosurgery beams with modern detectors. <i>Physics in Medicine and Biology</i> , 2013 , 58, 7595-608	3.8	42
419	Electronic structure of phosphorus and arsenic doped germanium. <i>Physical Review B</i> , 2013 , 88,	3.3	4
418	Electronic structure of two interacting phosphorus doped layers in silicon. <i>Physical Review B</i> , 2013 , 87,	3.3	18
417	A method to remove residual signals in fibre optic luminescence dosimeters. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1581-90	3.8	1
416	CelB and α -glucosidase immobilization for carboxymethyl cellulose hydrolysis. <i>RSC Advances</i> , 2013 , 3, 23604	3.7	11
415	Array of square waveguides for scintillation dosimetry in external radiotherapy. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012061	0.3	
414	Scintillators for 3D and 4D dosimetry: current status and future potential for clinical translation. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012075	0.3	
413	Free radical kinetics in a plasma immersion ion implanted polystyrene: Theory and experiment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 280, 26-35	1.2	46
412	Comparison on protein adsorption properties of diamond-like carbon and nitrogen-containing plasma polymer surfaces. <i>Thin Solid Films</i> , 2012 , 520, 3021-3025	2.2	15

411	Nonequilibrium route to nanodiamond with astrophysical implications. <i>Physical Review Letters</i> , 2012 , 108, 075503	7.4	19
410	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. <i>Acta Biomaterialia</i> , 2012 , 8, 2538-48	10.8	36
409	n-type doping of germanium from phosphine: early stages resolved at the atomic level. <i>Physical Review Letters</i> , 2012 , 109, 076101	7.4	16
408	In vivo biocompatibility of a plasma-activated, coronary stent coating. <i>Biomaterials</i> , 2012 , 33, 7984-92	15.6	53
407	Linker Free Nitrogen Doped Plasma Polymer Biosensors with Label Free Ellipsometric Diagnosis Technique. <i>Procedia Chemistry</i> , 2012 , 6, 149-154		
406	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	3.4	45
405	Free Radicals Generated by Ion Bombardment of a Semi-Crystalline PEEK Surface. <i>Plasma Processes and Polymers</i> , 2012 , 9, 174-179	3.4	13
404	Optimisation of exposure conditions for in vitro radiobiology experiments. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012 , 35, 151-7	1.9	14
403	Mechanisms for covalent immobilization of horseradish peroxidase on ion-beam-treated polyethylene. <i>Scientifica</i> , 2012 , 2012, 126170	2.6	17
402	The time-dependent development of electric double-layers in pure water at metal electrodes: the effect of an applied voltage on the local pH. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 18-34	2.4	15
401	Ion-implanted polytetrafluoroethylene enhances <i>Saccharomyces cerevisiae</i> biofilm formation for improved immobilization. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2923-35	4.1	14
400	Reply to the comment on: Elastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3667-3673	3.8	3
399	Optimization of temporal dose modulation: comparison of theory and experiment. <i>Medical Physics</i> , 2012 , 39, 3181-8	4.4	5
398	Technological advances for polymers in active implantable medical devices 2012 , 239-272		0
397	Fuel Selection for Pulsed Cathodic Arc Thrusters. <i>Journal of Propulsion and Power</i> , 2012 , 28, 218-221	1.8	6
396	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, 2587-602	3.8	97
395	Changes in lung tumor shape during respiration. <i>Physics in Medicine and Biology</i> , 2012 , 57, 919-35	3.8	9
394	Light propagation in multimoded square hollow waveguides. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 105703	1.7	

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