Robert D Short

List of Publications by Year
in descending order

166 papers	7,135 citations	36203 51 h-index	76769 74 g-index
169 all docs	169 docs citations	169 times ranked	5755 citing authors

#	Article	IF	Citations
1	A study of HMDSO/O2 plasma deposits using a high-sensitivity and -energy resolution XPS instrument: curve fitting of the Si 2p core level. Applied Surface Science, 1999, 137, 179-183.	3.1	298
2	Plasma Treatment of Polymers:Â The Effects of Energy Transfer from an Argon Plasma on the Surface Chemistry of Polystyrene, and Polypropylene. A High-Energy Resolution X-ray Photoelectron Spectroscopy Study. Langmuir, 1998, 14, 4827-4835.	1.6	227
3	Polymeric Material with Metal-Like Conductivity for Next Generation Organic Electronic Devices. Chemistry of Materials, 2012, 24, 3998-4003.	3.2	224
4	Plasma copolymer surfaces of acrylic acid/1,7 octadiene: Surface characterisation and the attachment of ROS 17/2.8 osteoblast-like cells. Biomaterials, 1998, 19, 1717-1725.	5.7	148
5	Plasma treatment of polymers Effects of energy transfer from an argon plasma on the surface chemistry of poly(styrene), low density poly(ethylene), poly(propylene) and poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.7	142
6	Attachment of human keratinocytes to plasma co-polymers of acrylic acid/octa-1,7-diene and allyl amine/octa-1,7-diene. Journal of Materials Chemistry, 1998, 8, 37-42.	6.7	111
7	Single-walled carbon nanotubes and polyaniline composites for capacitive deionization. Desalination, 2012, 290, 125-129.	4.0	109
8	A â€˜tissue modelâ€™ to study the plasma delivery of reactive oxygen species. Journal Physics D: Applied Physics, 2014, 47, 152002.	1.3	103
9	Substrate influence on the initial growth phase of plasma-deposited polymer films. Chemical Communications, 2009, , 3600.	2.2	101
10	Differences in the Aging of Allyl Alcohol, Acrylic Acid, Allylamine, and Octa-1,7-diene Plasma Polymers As Studied by X-ray Photoelectron Spectroscopy. Chemistry of Materials, 2000, 12, 2664-2671.	3.2	94
11	Nanoscale deposition of chemically functionalised films via plasma polymerisation. RSC Advances, 2013, 3, 13540.	1.7	94
12	Plasma polymerisation for molecular engineering of carbon-fibre surfaces for optimised composites. Composites Science and Technology, 1997, 57, 1023-1032.	3.8	93
13	Tracking the Penetration of Plasma Reactive Species in Tissue Models. Trends in Biotechnology, 2018, 36, 594-602.	4.9	90
14	Mass Spectral Investigation of the Radio-Frequency Plasma Deposition of Hexamethyldisiloxane. Journal of Physical Chemistry B, 1997, 101, 3614-3619.	1.2	87
15	A new autologous keratinocyte dressing treatment for non-healing diabetic neuropathic foot ulcers. Diabetic Medicine, 2004, 21, 786-789.	1.2	86
16	Characterization of Plasma Polymers of Acrylic Acid and Propanoic Acid. Macromolecules, 1996, 29, 5172-5177.	2.2	85
17	Polyaniline-modified activated carbon electrodes for capacitive deionisation. Desalination, 2014, 333, 101-106.	4.0	85
18	Early Stages of Growth of Plasma Polymer Coatings Deposited from Nitrogenâ€•and Oxygenâ€Containing Monomers. Plasma Processes and Polymers, 2010, 7, 824-835.	1.6	84

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19	Structure-directed growth of high conductivity PEDOT from liquid-like oxidant layers during vacuum vapor phase polymerization. Journal of Materials Chemistry, 2012, 22, 14889.	6.7	84
20	Probing the transport of plasma-generated RONS in an agarose target as surrogate for real tissue: dependency on time, distance and material composition. Journal Physics D: Applied Physics, 2015, 48, 202001.	1.3	83
21	Radiofrequency-induced plasma polymerisation of propenoic acid and propanoic acid. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3907.	1.7	82
22	How to assess the plasma delivery of RONS into tissue fluid and tissue. Journal Physics D: Applied Physics, 2016, 49, 304005.	1.3	81
23	Antibacterial surfaces by adsorptive binding of polyvinyl-sulphonate-stabilized silver nanoparticles. Nanotechnology, 2010, 21, 215102.	1.3	80
24	A method for the deposition of controllable chemical gradientsThis work was supported by EPSRC Grant GR/R28560/01.. Chemical Communications, 2003, , 1766.	2.2	79
25	Graphene/Polyaniline nanocomposite as electrode material for membrane capacitive deionization. Desalination, 2014, 344, 274-279.	4.0	77
26	Investigating Radio Frequency Plasmas Used for the Modification of Polymer Surfaces. Journal of Physical Chemistry B, 1999, 103, 4423-4430.	1.2	76
27	Combination of iCVD and Porous Silicon for the Development of a Controlled Drug Delivery System. ACS Applied Materials & Interfaces, 2012, 4, 3566-3574.	4.0	75
28	Plasma copolymerization as a route to the fabrication of new surfaces with controlled amounts of specific chemical functionality. Polymer, 1996, 37, 5537-5539.	1.8	74
29	The Role of Ions in the Plasma Polymerization of Allylamine. Journal of Physical Chemistry B, 2001, 105, 5730-5736.	1.2	74
30	Surface Morphology in the Early Stages of Plasma Polymer Film Growth from Amineâ€Containing Monomers. Plasma Processes and Polymers, 2011, 8, 367-372.	1.6	73
31	High conductivity PEDOT resulting from glycol/oxidant complex and glycol/polymer intercalation during vacuum vapour phase polymerisation. Polymer, 2011, 52, 1725-1730.	1.8	73
32	Title is missing!. Plasmas and Polymers, 1997, 2, 277-300.	1.5	70
33	Surface Gradient of Functional Heparin. Advanced Materials, 2008, 20, 1166-1169.	11.1	70
34	The role of UV photolysis and molecular transport in the generation of reactive species in a tissue model with a cold atmospheric pressure plasma jet. Applied Physics Letters, 2019, 114, .	1.5	69
35	The formation of high surface concentrations of hydroxyl groups in the plasma polymerization of allyl alcohol. Polymer, 1994, 35, 4382-4391.	1.8	67
36	Developments in xenobiotic-free culture of human keratinocytes for clinical use. Wound Repair and Regeneration, 2004, 12, 626-634.	1.5	67

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37	Development of a Stable Chemically Defined Surface for the Culture of Human Keratinocytes under Serum-Free Conditions for Clinical Use. Tissue Engineering, 2003, 9, 919-930.	4.9	64
38	UVâ€“vis spectroscopy study of plasma-activated water: Dependence of the chemical composition on plasma exposure time and treatment distance. Japanese Journal of Applied Physics, 2018, 57, 0102B9.	0.8	62
39	Secondary Ion Mass Spectrometry of Polymers: a ToF SIMS Study of Monodispersed PMMA Standards. Surface and Interface Analysis, 1997, 25, 261-274.	0.8	60
40	Plasma Copolymerization of Allyl Alcohol/1,7-Octadiene:Â Surface Characterization and Attachment of Human Keratinocytes. Chemistry of Materials, 1998, 10, 1176-1183.	3.2	60
41	A Mass Spectrometric and Ion Energy Study of the Continuous Wave Plasma Polymerization of Acrylic Acid. Langmuir, 2000, 16, 5654-5660.	1.6	59
42	The geometric control of E14 and R1 mouse embryonic stem cell pluripotency by plasma polymer surface chemical gradients. Biomaterials, 2009, 30, 1066-1070.	5.7	59
43	Creating gradients of two proteins by differential passive adsorption onto a PEG-density gradient. Biomaterials, 2010, 31, 392-397.	5.7	59
44	Synthetic implant surfaces. Biomaterials, 1996, 17, 501-507.	5.7	58
45	Combined effect of protein and oxygen on reactive oxygen and nitrogen species in the plasma treatment of tissue. Applied Physics Letters, 2015, 107, .	1.5	58
46	Enhancement of hydrogen peroxide production from an atmospheric pressure argon plasma jet and implications to the antibacterial activity of plasma activated water. Plasma Sources Science and Technology, 2021, 30, 035009.	1.3	58
47	Modelling the helium plasma jet delivery of reactive species into a 3D cancer tumour. Plasma Sources Science and Technology, 2018, 27, 014001.	1.3	57
48	A Multi-Technique Investigation of the Pulsed Plasma and Plasma Polymers of Acrylic Acid:Â Millisecond Pulse Regime. Journal of Physical Chemistry B, 2002, 106, 5596-5603.	1.2	55
49	Effects of â€œprocessing parametersâ€•in plasma deposition: Acrylic acid revisited. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1702-1709.	0.9	54
50	Adsorption of vitronectin, collagen and immunoglobulin-G to plasma polymer surfaces by enzyme linked immunosorbent assay (ELISA). Journal of Materials Chemistry, 2002, 12, 2726-2732.	6.7	54
51	Method for the Generation of Surface-Bound Nanoparticle Density Gradients. Journal of Physical Chemistry C, 2011, 115, 3429-3433.	1.5	53
52	Functionality of Proteins Bound to Plasma Polymer Surfaces. ACS Applied Materials & Interfaces, 2012, 4, 2455-2463.	4.0	53
53	Fabrication and Characterization of a Porous Silicon Drug Delivery System with an Initiated Chemical Vapor Deposition Temperature-Responsive Coating. Langmuir, 2016, 32, 301-308.	1.6	53
54	A substrate independent approach for generation of surface gradients. Thin Solid Films, 2013, 528, 106-110.	0.8	52

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55	Controlling the Spatial Distribution of Polymer Surface Treatment Using Atmosphericâ€Pressure Microplasma Jets. Plasma Processes and Polymers, 2011, 8, 38-50.	1.6	51
56	Microplasma patterning of bonded microchannels using high-precision â€œinjectedâ€•electrodes. Lab on A Chip, 2011, 11, 541-544.	3.1	50
57	Interface molecular engineering of carbon-fiber composites. Composites Part A: Applied Science and Manufacturing, 1999, 30, 49-57.	3.8	49
58	Experimental evaluation of the interphase region in carbon fibre composites with plasma polymerised coatings. Composites Part A: Applied Science and Manufacturing, 1998, 29, 241-250.	3.8	48
59	A method for the non-covalent immobilization of heparin to surfaces. Analytical Biochemistry, 2004, 330, 123-129.	1.1	48
60	The effect of ion energy on the chemistry of air-aged polymer films grown from the hyperthermal polyatomic ion Si2OMe5+. Journal of Electron Spectroscopy and Related Phenomena, 2001, 121, 281-297.	0.8	47
61	Plasma polymer chemical gradients for evaluation of surface reactivity: epoxide reaction with carboxylic acid surface groups. Journal of Materials Chemistry, 2004, 14, 408.	6.7	47
62	Mass spectrometry of and deposition-rate measurements from radiofrequency-induced plasmas of methyl isobutyrate, methyl methacrylate and n-butyl methacrylate. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1363.	1.7	46
63	Experimental evidence of a relationship between monomer plasma residence time and carboxyl group retention in acrylic acid plasma polymers. Polymer, 2003, 44, 3173-3176.	1.8	43
64	Adsorption of immunoglobulin G to plasma-co-polymer surfaces of acrylic acid and 1,7-octadiene. Journal of Materials Chemistry, 2003, 13, 1546.	6.7	43
65	The link between mechanisms of deposition and the physico-chemical properties of plasma polymer films. Soft Matter, 2013, 9, 6167.	1.2	43
66	Role of Positive Ions in Determining the Deposition Rate and Film Chemistry of Continuous Wave Hexamethyl Disiloxane Plasmas. Langmuir, 2011, 27, 11943-11950.	1.6	42
67	Ionized gas (plasma) delivery of reactive oxygen species (ROS) into artificial cells. Journal Physics D: Applied Physics, 2014, 47, 362001.	1.3	42
68	1992 C R Burch prize TOF SIMS in polymer surface studies. Vacuum, 1993, 44, 1143-1160.	1.6	41
69	The self-renewal of mouse embryonic stem cells is regulated by cellâ€“substratum adhesion and cell spreading. International Journal of Biochemistry and Cell Biology, 2013, 45, 2698-2705.	1.2	41
70	On the Effect of Monomer Chemistry on Growth Mechanisms of Nonfouling PEG-like Plasma Polymers. Langmuir, 2013, 29, 2595-2601.	1.6	41
71	Variability in Plasma Polymerization Processes â€“ An International Roundâ€‹<scp>R</scp>obin Study. Plasma Processes and Polymers, 2013, 10, 767-778.	1.6	40
72	The role of ions in the continuous-wave plasma polymerisation of acrylic acid. Physical Chemistry Chemical Physics, 1999, 1, 3117-3121.	1.3	37

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73	Deposition of functional coatings from acrylic acid and octamethylcyclotetrasiloxane onto steel using an atmospheric pressure dielectric barrier discharge. Surface and Coatings Technology, 2008, 203, 822-825.	2.2	37
74	Development of a microtiter plate-based glycosaminoglycan array for the investigation of glycosaminoglycan-protein interactions. Glycobiology, 2009, 19, 1537-1546.	1.3	37
75	Assessing embryonic stem cell response to surface chemistry using plasma polymer gradients. Acta Biomaterialia, 2012, 8, 1739-1748.	4.1	37
76	An investigation of the mechanisms of plasma polymerisation of allyl alcohol. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1141-1145.	1.7	36
77	Immobilized Streptavidin Gradients as Bioconjugation Platforms. Langmuir, 2012, 28, 2710-2717.	1.6	36
78	Studying the cytolytic activity of gas plasma with self-signalling phospholipid vesicles dispersed within a gelatin matrix. Journal Physics D: Applied Physics, 2013, 46, 185401.	1.3	36
79	In-situ QCM-D analysis reveals four distinct stages during vapour phase polymerisation of PEDOT thin films. Polymer, 2010, 51, 1737-1743.	1.8	34
80	Plasma-polymerised coatings used as pre-treatment for aluminium alloys. Surface and Coatings Technology, 2002, 154, 8-13.	2.2	33
81	The Effect of Positive Ion Energy on Plasma Polymerization:Â A Comparison between Acrylic and Propionic Acids. Journal of Physical Chemistry B, 2005, 109, 3207-3211.	1.2	33
82	Testing the Hypothesis: Comments on Plasma Polymerisation of Acrylic Acid Revisited. Plasma Processes and Polymers, 2010, 7, 366-370.	1.6	33
83	In-situ UV Absorption Spectroscopy for Monitoring Transport of Plasma Reactive Species through Agarose as Surrogate for Tissue. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 439-444.	0.1	33
84	On the effect of serum on the transport of reactive oxygen species across phospholipid membranes. Biointerphases, 2015, 10, 029511.	0.6	33
85	A t.o.f.s.i.m.s. and x.p.s. investigation of the structure of plasma polymers prepared from the methacrylate series of monomers: 2. The influence of the W/F parameter on structural and functional group retention. Polymer, 1995, 36, 3439-3450.	1.8	31
86	Chemical and thermo-responsive characterisation of surfaces formed by plasma polymerisation ofN-isopropyl acrylamide. Surface and Interface Analysis, 2006, 38, 1109-1116.	0.8	31
87	Using oxygen plasma treatment to improve the performance of electrodes for capacitive water deionization. Electrochimica Acta, 2013, 106, 494-499.	2.6	31
88	Cell attachment and proliferation on high conductivity PEDOTâ€"glycol composites produced by vapour phase polymerisation. Biomaterials Science, 2013, 1, 368-378.	2.6	31
89	Glycosaminoglycan (GAG) binding surfaces for characterizing GAG-protein interactions. Biomaterials, 2012, 33, 1007-1016.	5.7	30
90	Defining Plasma Polymerization: New Insight Into What We Should Be Measuring. ACS Applied Materials & Interfaces, 2013, 5, 5387-5391.	4.0	30

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91	Slow Molecular Transport of Plasma-Generated Reactive Oxygen and Nitrogen Species and O2 through Agarose as a Surrogate for Tissue. Plasma Medicine, 2015, 5, 125-143.	0.2	29
92	A comparative study of cell attachment to self assembled monolayers and plasma polymers. Journal of Materials Chemistry, 1998, 8, 2583-2584.	6.7	28
93	How membrane lipids influence plasma delivery of reactive oxygen species into cells and subsequent DNA damage: an experimental and computational study. Physical Chemistry Chemical Physics, 2019, 21, 19327-19341.	1.3	28
94	Plasma treatment of polymers: effects of energy transfer from an argon plasma and post-plasma storage on the surface chemistry of polystyrene. Polymer Degradation and Stability, 1994, 45, 339-346.	2.7	27
95	A Cell Therapy for Chronic Wounds Based Upon a Plasma Polymer Delivery Surface. Plasma Processes and Polymers, 2006, 3, 419-430.	1.6	27
96	Approaches to Quantify Amine Groups in the Presence of Hydroxyl Functional Groups in Plasma Polymerized Thin Films. Plasma Processes and Polymers, 2014, 11, 888-896.	1.6	27
97	An Experimental and Analytical Study of an Asymmetric Capacitively Coupled Plasma Used for Plasma Polymerization. Plasma Processes and Polymers, 2014, 11, 833-841.	1.6	25
98	How plasma induced oxidation, oxygenation, and de-oxygenation influences viability of skin cells. Applied Physics Letters, 2016, 109, .	1.5	25
99	Modulating the concentrations of reactive oxygen and nitrogen species and oxygen in water with helium and argon gas and plasma jets. Japanese Journal of Applied Physics, 2019, 58, SAAB01.	0.8	25
100	Mass spectrometric study of the radiofrequency-induced plasma polymerisation of styrene and propenoic acid. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 559-565.	1.7	24
101	On the effects of atmospheric-pressure microplasma array treatment on polymer and biological materials. RSC Advances, 2013, 3, 13437.	1.7	24
102	Development of a Plasma-Polymerized Surface Suitable for the Transplantation of Keratinocyteâ€“Melanocyte Cocultures for Patients with Vitiligo. Tissue Engineering, 2003, 9, 1123-1131.	4.9	23
103	Fabrication and Operation of a Microcavity Plasma Array Device for Microscale Surface Modification. Plasma Processes and Polymers, 2012, 9, 638-646.	1.6	23
104	Plasma Parameter Aspects in the Fabrication of Stable Amine Functionalized Plasma Polymer Films. Plasma Processes and Polymers, 2015, 12, 817-826.	1.6	23
105	The importance of ions in low pressure PECVD plasmas. Frontiers in Physics, 2015, 3, .	1.0	23
106	A time-of-flight secondary ion mass spectrometry and X-ray photoelectron spectroscopy investigation of the structure of plasma polymers prepared from the methacrylate series of monomers. Polymer, 1993, 34, 4179-4185.	1.8	22
107	XPS analysis of the surface of leucite-reinforced feldspathic ceramics. Dental Materials, 2001, 17, 1-6.	1.6	22
108	Cell sheets in cell therapies. Cytotherapy, 2018, 20, 169-180.	0.3	22

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109	The Substrate and Composition Dependence of Plasma Polymer Stability. Plasma Processes and Polymers, 2010, 7, 102-106.	1.6	21
110	The assessment of cold atmospheric plasma treatment of DNA in synthetic models of tissue fluid, tissue and cells. Journal Physics D: Applied Physics, 2017, 50, 274001.	1.3	21
111	Genotoxicity and cytotoxicity of the plasma jet-treated medium on lymphoblastoid WIL2-NS cell line using the cytokinesis block micronucleus cytome assay. Scientific Reports, 2017, 7, 3854.	1.6	21
112	A spectroscopic analysis of plasma polymers prepared from a series of vinyl sulphones. Surface and Interface Analysis, 1994, 22, 477-482.	0.8	20
113	On the plasma polymerisation of allyl alcohol: an investigation of ionâ€"molecule reactions using a selected ion flow tube. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1961-1964.	1.7	20
114	Microplasma arrays: a new approach for maskless and localized patterning of materials surfaces. RSC Advances, 2012, 2, 12007.	1.7	20
115	Plasma Polymer-Coated Contact Lenses for the Culture and Transfer of Corneal Epithelial Cells in the Treatment of Limbal Stem Cell Deficiency. Tissue Engineering - Part A, 2014, 20, 140123085146001.	1.6	20
116	Comparison of Plasma Polymerization under Collisional and Collision-Less Pressure Regimes. Journal of Physical Chemistry B, 2015, 119, 15359-15369.	1.2	20
117	Plasma Polymer and Biomolecule Modification of 3D Scaffolds for Tissue Engineering. Plasma Processes and Polymers, 2016, 13, 678-689.	1.6	20
118	Where physics meets chemistry: Thin film deposition from reactive plasmas. Frontiers of Chemical Science and Engineering, 2016, 10, 441-458.	2.3	20
119	The effect of ion energy upon plasma polymerization deposition rate for acrylic acid. Chemical Communications, 2003, , 348-349.	2.2	19
120	The use of a micro-cavity discharge array at atmospheric pressure to investigate the spatial modification of polymer surfaces. Surface and Coatings Technology, 2010, 204, 2279-2288.	2.2	19
121	Design of a Microplasma Device for Spatially Localised Plasma Polymerisation. Plasma Processes and Polymers, 2011, 8, 695-700.	1.6	19
122	Investigating the Plasma Surface Modification of Polystyrene at Low Ion Power Densities. Journal of Physical Chemistry B, 2004, 108, 14000-14004.	1.2	18
123	On-demand cold plasma activation of acetyl donors for bacteria and virus decontamination. Applied Physics Letters, 2021, 119, .	1.5	18
124	On cold atmospheric-pressure plasma jet induced DNA damage in cells. Journal Physics D: Applied Physics, 2021, 54, 035203.	1.3	17
125	A Mass Spectral Investigation of the RF Plasmas of Small Organic Compounds: An Investigation of the Plasma-Phase Reactions in the Plasma Deposition from Allyl Amine. Plasmas and Polymers, 1998, 3, 97-114.	1.5	16
126	The hormesis effect of plasma-elevated intracellular ROS on HaCaT cells. Journal Physics D: Applied Physics, 2015, 48, 495401.	1.3	16

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127	Hyperthermal Intact Molecular Ions Play Key Role in Retention of ATRP Surface Initiation Capability of Plasma Polymer Films from Ethyl Î±-Bromoisobutyrate. ACS Applied Materials & Interfaces, 2016, 8, 16493-16502.	4.0	16
128	Chemistry and aging of organosiloxane and fluorocarbon films grown from hyperthermal polyatomic ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1531-1536.	0.9	15
129	Submillimeter-Scale Surface Gradients of Immobilized Protein Ligands. Langmuir, 2009, 25, 4243-4246.	1.6	14
130	The potential of small chemical functional groups for directing the differentiation of kidney stem cells. Biochemical Society Transactions, 2010, 38, 1062-1066.	1.6	13
131	On the Use of SIFTâ€MS and PTRâ€MS Experiments to Explore Reaction Mechanisms in Plasmas of Volatile Organics: Siloxanes. Plasma Processes and Polymers, 2011, 8, 287-294.	1.6	13
132	Synthesis of highly functionalised plasma polymer films from protonated precursor ions <i>via</i> the plasma Î±â€“Î³ transition. Physical Chemistry Chemical Physics, 2017, 19, 5637-5646.	1.3	13
133	The influence of a second ground electrode on hydrogen peroxide production from an atmospheric pressure argon plasma jet and correlation to antibacterial efficacy and mammalian cell cytotoxicity. Journal Physics D: Applied Physics, 2022, 55, 125207.	1.3	13
134	Plasma Polymer Surfaces for Cell Expansion and Delivery. Journal of Adhesion Science and Technology, 2010, 24, 2215-2236.	1.4	12
135	Reconciling the Physical and Chemical Environments of Plasma: A Commentary on â€œMechanisms of Plasma Polymerisation â€“ Reviewed from a Chemical Point of Viewâ€• Plasma Processes and Polymers, 2012, 9, 840-843.	1.6	12
136	Development of Advanced Dressings for the Delivery of Progenitor Cells. ACS Applied Materials & Interfaces, 2017, 9, 3445-3454.	4.0	12
137	Reaction-based indicator displacement assay (RIA) for the development of a triggered release system capable of biofilm inhibition. Chemical Communications, 2019, 55, 15129-15132.	2.2	12
138	Development of a surface to enhance the effectiveness of fibroblast growth factor 2 (FGF-2). Biomaterials Science, 2014, 2, 875-882.	2.6	11
139	Versatile gradients of chemistry, bound ligands and nanoparticles on alumina nanopore arrays. Nanotechnology, 2011, 22, 415601.	1.3	10
140	Promiscuous hydrogen in polymerising plasmas. Physical Chemistry Chemical Physics, 2018, 20, 7033-7042.	1.3	10
141	Selected ion flow tube studies to investigate the formation of acrylic and propionic acid protonated clusters in low power, low pressure RF plasmas. Chemical Communications, 2009, , 659-661.	2.2	9
142	Joint Commentary to the Debate. Plasma Processes and Polymers, 2010, 7, 365-365.	1.6	9
143	Haptotatic Plasma Polymerized Surfaces for Rapid Tissue Regeneration and Wound Healing. ACS Applied Materials & Interfaces, 2016, 8, 32675-32687.	4.0	9
144	Assessing the inflammatory response to in vitro polymicrobial wound biofilms in a skin epidermis model. Npj Biofilms and Microbiomes, 2022, 8, 19.	2.9	9

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145	X-ray photoelectron spectroscopy (XPS) and time-of-flight secondary ion mass spectrometry (ToF-SIMS) analysis of UV-exposed polystyrene. Macromolecular Chemistry and Physics, 1995, 196, 3695-3705.	1.1	8
146	Surface protein gradients generated in sealed microchannels using spatially varying helium microplasma. Biomicrofluidics, 2015, 9, 014124.	1.2	8
147	Reply to â€œTesting the Hypothesis: Comments on Plasma Polymerization of Acrylic Acid Revisitedâ€ Plasma Processes and Polymers, 2011, 8, 687-688.	1.6	7
148	Quantitative ToF SIMS Analysis of Spun-Cast and Solution-Cast Polymer Films. International Journal of Polymer Analysis and Characterization, 1997, 4, 133-151.	0.9	6
149	Protein Patterning on Microplasma-Activated PEO-Like Coatings. Plasma Processes and Polymers, 2014, 11, 263-268.	1.6	6
150	Scaling human pluripotent stem cell expansion and differentiation: are cell factories becoming a reality?. Regenerative Medicine, 2015, 10, 925-930.	0.8	6
151	Oxidative Stress Pathways Linked to Apoptosis Induction by Low-Temperature Plasma Jet Activated Media in Bladder Cancer Cells: An In Vitro and In Vivo Study. Plasma, 2022, 5, 233-246.	0.7	5
152	Gas-phase esterification during plasma polymerization of propanoic acid and 1-propanol. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 3131-3133.	0.9	4
153	Development of a surface to increase retinal pigment epithelial cell (ARPE-19) proliferation under reduced serum conditions. Journal of Materials Science: Materials in Medicine, 2014, 25, 1367-1373.	1.7	4
154	ESCA surface study of polystyrene photodegradation accelerated by 2-(2-methoxy-5-methylphenyl)-2H-benzotriazole. Macromolecular Rapid Communications, 1995, 16, 799-806.	2.0	3
155	Microplasma jet treatment of bovine serum albumin coatings for controlling enzyme and cell attachment. European Physical Journal: Special Topics, 2017, 226, 2873-2885.	1.2	3
156	Mass Spectrometry Analysis of the Real-Time Transport of Plasma-Generated Ionic Species Through an Agarose Tissue Model Target. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 317-323.	0.1	3
157	The Physics of Plasma Ion Chemistry: A Case Study of Plasma Polymerization of Ethyl Acetate. Journal of Physical Chemistry Letters, 2019, 10, 7306-7310.	2.1	3
158	Rational approaches for optimizing chemical functionality of plasma polymers: A case study with ethyl trimethylacetate. Plasma Processes and Polymers, 2021, 18, 2000195.	1.6	3
159	Assessment of mutations induced by cold atmospheric plasma jet treatment relative to known mutagens in <i>Escherichia coli</i>. Mutagenesis, 2021, 36, 380-387.	1.0	3
160	Integration of microplasma and microfluidic technologies for localised microchannel surface modification. Proceedings of SPIE, 2011, , .	0.8	2
161	Electrical and optical properties of a gradient microplasma for microfluidic chips. Plasma Processes and Polymers, 2017, 14, 1600194.	1.6	2
162	Immobilization of vitronectinâ€binding heparan sulfates onto surfaces to support human pluripotent stem cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1887-1896.	1.6	2

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163	Chemical and biomolecule patterning on 2D surfaces using atmospheric pressure microcavity plasma array devices. Proceedings of SPIE, 2011, , .	0.8	1
164	Plasma polymerization of (2,2,6,6-tetramethylpiperidin-1-yl)oxyl in a collisional, capacitively coupled radio frequency discharge. Biointerphases, 2020, 15, 061007.	0.6	1
165	Microplasma Array Patterning of Reactive Oxygen and Nitrogen Species onto Polystyrene. Frontiers in Physics, 2017, 5, .	1.0	0
166	On Plasma Fractionation Treatment and Its Implications in Cells. IEEE Transactions on Radiation and Plasma Medical Sciences, 2023, 7, 96-102.	2.7	0