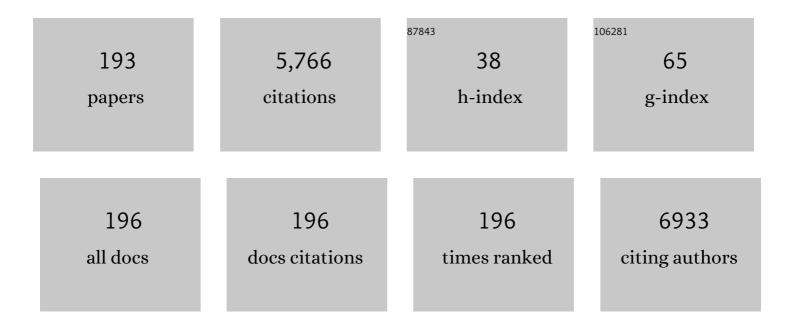
## **Denis P Dowling**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fabrication of continuous carbon, glass and Kevlar fibre reinforced polymer composites using additive manufacturing. Additive Manufacturing, 2017, 16, 146-152.	1.7	452
2	Effect of Surface Wettability and Topography on the Adhesion of Osteosarcoma Cells on Plasma-modified Polystyrene. Journal of Biomaterials Applications, 2011, 26, 327-347.	1.2	314
3	Evaluation of Protein Adsorption on Atmospheric Plasma Deposited Coatings Exhibiting Superhydrophilic to Superhydrophobic Properties. Biointerphases, 2012, 7, 31.	0.6	134
4	Probing the Redox States at the Surface of Electroactive Nanoporous NiO Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 143-152.	4.0	131
5	Evaluation of diamond-like carbon-coated orthopaedic implants. Diamond and Related Materials, 1997, 6, 390-393.	1.8	127
6	Mechanism of stress relaxation and phase transformation in additively manufactured Ti-6Al-4V via in situ high temperature XRD and TEM analyses. Acta Materialia, 2020, 188, 720-732.	3.8	122
7	Anti-bacterial silver coatings exhibiting enhanced activity through the addition of platinum. Surface and Coatings Technology, 2003, 163-164, 637-640.	2.2	121
8	Evaluation of the mechanical performance of polymer parts fabricated using a production scale multi jet fusion printing process. Additive Manufacturing, 2018, 22, 381-387.	1.7	114
9	Biological responses to hydroxyapatite surfaces deposited via a co-incident microblasting technique. Biomaterials, 2010, 31, 515-522.	5.7	113
10	Effect of an active packaging with citrus extract on lipid oxidation and sensory quality of cooked turkey meat. Meat Science, 2014, 96, 1171-1176.	2.7	112
11	Advanced diamond-reinforced metal matrix composites via cold spray: Properties and deposition mechanism. Composites Part B: Engineering, 2017, 113, 44-54.	5.9	109
12	Deposition of anti-bacterial silver coatings on polymeric substrates. Thin Solid Films, 2001, 398-399, 602-606.	0.8	98
13	3D Printing of Fibre-Reinforced Thermoplastic Composites Using Fused Filament Fabrication—A Review. Polymers, 2020, 12, 2188.	2.0	96
14	Characterisation of titanium oxide layers using Raman spectroscopy and optical profilometry: Influence of oxide properties. Results in Physics, 2019, 12, 1574-1585.	2.0	85
15	Additive manufacturing of woven carbon fibre polymer composites. Composite Structures, 2018, 206, 637-643.	3.1	73
16	In-situ sensing, process monitoring and machine control in Laser Powder Bed Fusion: A review. Additive Manufacturing, 2021, 45, 102058.	1.7	73
17	Influence of dc Pulsed Atmospheric Pressure Plasma Jet Processing Conditions on Polymer Activation. Plasma Processes and Polymers, 2011, 8, 718-727.	1.6	72
18	Dye sensitised solar cells with nickel oxide photocathodes prepared via scalable microwave sintering. Physical Chemistry Chemical Physics, 2013, 15, 2411.	1.3	71

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19	Photo-active and optical properties of bismuth ferrite (BiFeO3): An experimental and theoretical study. Chemical Physics Letters, 2013, 572, 78-84.	1.2	67
20	Adhesion of slime producing Staphylococcus epidermidis strains to PVC and diamond-like carbon/silver/fluorinated coatings. Journal of Materials Science: Materials in Medicine, 2006, 17, 679-689.	1.7	65
21	Investigating the fatigue and mechanical behaviour of 3D printed woven and nonwoven continuous carbon fibre reinforced polymer (CFRP) composites. Composites Part B: Engineering, 2021, 212, 108704.	5.9	63
22	Cold spraying of WC-Co-Ni coatings using porous WC-17Co powders: Formation mechanism, microstructure characterization and tribological performance. Materials and Design, 2017, 126, 305-313.	3.3	62
23	Lowâ€pressure additive manufacturing of continuous fiberâ€reinforced polymer composites. Polymer Composites, 2019, 40, 4329-4339.	2.3	59
24	Failure analysis of 3D printed woven composite plates with holes under tensile and shear loading. Composites Part B: Engineering, 2020, 186, 107835.	5.9	58
25	Deposition and characterization of NiOx coatings by magnetron sputtering for application in dye-sensitized solar cells. Surface and Coatings Technology, 2010, 204, 2729-2736.	2.2	56
26	Enhancing the Mechanical Properties of Superhydrophobic Atmospheric Pressure Plasma Deposited Siloxane Coatings. Plasma Processes and Polymers, 2011, 8, 305-315.	1.6	54
27	Adhesion and composite micro-hardness of DLC and Si-DLC films deposited on nitrile rubber. Surface and Coatings Technology, 2012, 206, 4881-4886.	2.2	54
28	Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for <i>p</i> â€Type Dyeâ€5ensitized Solar Cells. ChemElectroChem, 2014, 1, 384-391.	1.7	51
29	Structural and tribological properties of the plasma nitrided Ti-alloy biomaterials: Influence of the treatment temperature. Surface and Coatings Technology, 2007, 201, 4865-4872.	2.2	50
30	Application of a novel microwave plasma treatment for the sintering of nickel oxide coatings for use in dye-sensitized solar cells. Surface and Coatings Technology, 2011, 205, S245-S249.	2.2	48
31	Flexible glass substrate based dye sensitized solar cells. Solar Energy Materials and Solar Cells, 2015, 132, 237-244.	3.0	48
32	Evaluation of the anti-fouling properties of nm thick atmospheric plasma deposited coatings. Surface and Coatings Technology, 2010, 205, 1544-1551.	2.2	47
33	Electrical, Thermal and Optical Diagnostics of an Atmospheric Plasma Jet System. Plasma Chemistry and Plasma Processing, 2010, 30, 537-552.	1.1	47
34	Characteristics and tribological performance of DLC and Si-DLC films deposited on nitrile rubber. Surface and Coatings Technology, 2012, 206, 4585-4593.	2.2	45
35	Effect of Plasma Exposure on the Chemistry and Morphology of Aerosolâ€Assisted, Plasmaâ€Deposited Coatings. Plasma Processes and Polymers, 2008, 5, 737-744.	1.6	43
36	Comparison of the photoelectrochemical properties of RDS NiO thin films for p-type DSCs with different organic and organometallic dye-sensitizers and evidence of a direct correlation between cell efficiency and charge recombination. Journal of Solid State Electrochemistry, 2015, 19, 975-986.	1.2	43

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37	Raman analysis of DLC and Si-DLC films deposited on nitrile rubber. Surface and Coatings Technology, 2013, 232, 521-527.	2.2	42
38	Enhancing the bearing strength of woven carbon fibre thermoplastic composites through additive manufacturing. Composite Structures, 2019, 212, 381-388.	3.1	42
39	Effects of laser power on geometry, microstructure and mechanical properties of printed Ti-6Al-4V parts. Journal of Materials Processing Technology, 2020, 278, 116539.	3.1	41
40	Examination of surface properties andin vitro biological performance of amorphous diamond-like carbon-coated polyurethane. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 78B, 230-236.	1.6	40
41	In vitro and in vivo bioactivity of CoBlast hydroxyapatite coating and the effect of impaction on its osteoconductivity. Biotechnology Advances, 2012, 30, 352-362.	6.0	38
42	Spray-deposited NiO x films on ITO substrates as photoactive electrodes for p-type dye-sensitized solar cells. Journal of Applied Electrochemistry, 2013, 43, 191-197.	1.5	38
43	Evaluation of microwave plasma oxidation treatments for the fabrication of photoactive un-doped and carbon-doped TiO2 coatings. Surface and Coatings Technology, 2012, 206, 4113-4118.	2.2	37
44	Properties of Siloxane Coatings Deposited in a Reel-to-Reel Atmospheric Pressure Plasma System. Plasma Processes and Polymers, 2007, 4, S450-S454.	1.6	36
45	Flexibility and frictional behaviour of DLC and Si-DLC films deposited on nitrile rubber. Surface and Coatings Technology, 2014, 239, 84-94.	2.2	36
46	Novel cold spray for fabricating graphene-reinforced metal matrix composites. Materials Letters, 2017, 196, 172-175.	1.3	36
47	The influence of platinum on the performance of silver–platinum anti-bacterial coatings. Materials & Design, 2005, 26, 217-222.	5.1	35
48	PET trays coated with Citrus extract exhibit antioxidant activity with cooked turkey meat. LWT - Food Science and Technology, 2012, 47, 471-477.	2.5	35
49	Cellular and transcriptomic analysis of human mesenchymal stem cell response to plasma-activated hydroxyapatite coating. Acta Biomaterialia, 2012, 8, 1627-1638.	4.1	35
50	Activation of PET Using an RF Atmospheric Plasma System. Plasma Chemistry and Plasma Processing, 2013, 33, 941-957.	1.1	34
51	3D printing of PEEK reactors for flow chemistry and continuous chemical processing. Reaction Chemistry and Engineering, 2020, 5, 728-735.	1.9	34
52	Comparison between shot peening and abrasive blasting processes as deposition methods for hydroxyapatite coatings onto a titanium alloy. Surface and Coatings Technology, 2013, 216, 224-231.	2.2	33
53	Plasmon enhanced fluorescence studies from aligned gold nanorod arrays modified with SiO2 spacer layers. Applied Physics Letters, 2015, 106, .	1.5	32
54	The use of refractive index as a measure of diamond-like carbon film quality. Diamond and Related Materials, 1998, 7, 432-434.	1.8	31

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55	Comparison between the properties of polyamide 12 and glass bead filled polyamide 12 using the multi jet fusion printing process. Additive Manufacturing, 2020, 31, 100961.	1.7	31
56	Electrochemical characterization of NiO electrodes deposited via a scalable powder microblasting technique. Journal of Electroanalytical Chemistry, 2013, 689, 185-192.	1.9	30
57	Generation of Active Species in a Large Atmospheric-Pressure Plasma Jet. IEEE Transactions on Plasma Science, 2012, 40, 2994-3002.	0.6	29
58	Plasma functionalized carbon electrode for laccase-catalyzed oxygen reduction by direct electron transfer. Bioelectrochemistry, 2013, 91, 52-61.	2.4	29
59	High pressure diamond and diamond-like carbon deposition using a microwave CAP reactor. Diamond and Related Materials, 2002, 11, 1036-1040.	1.8	28
60	Biosensor based on laccase immobilized on plasma polymerized allylamine/carbon electrode. Materials Science and Engineering C, 2013, 33, 3197-3205.	3.8	28
61	Atmospheric pressure plasma treatment of amorphous polyethylene terephthalate for enhanced heatsealing properties. International Journal of Adhesion and Adhesives, 2012, 35, 1-8.	1.4	27
62	Adhesion Improvement of Thermoplastics-Based Composites by Atmospheric Plasma and UV Treatments. Applied Composite Materials, 2021, 28, 71-89.	1.3	27
63	Electrochemical Characterization of Rapid Discharge Sintering (RDS) NiO Cathodes for Dye-Sensitized Solar Cells of <i>p</i> -Type. American Journal of Analytical Chemistry, 2015, 06, 176-187.	0.3	27
64	Protein adhesion on water stable atmospheric plasma deposited acrylic acid coatings. Surface and Coatings Technology, 2013, 234, 53-59.	2.2	26
65	Surface properties of nanostructured NiO undergoing electrochemical oxidation in 3-methoxy-propionitrile. Applied Surface Science, 2017, 403, 441-447.	3.1	26
66	Electrochemically Deposited NiO Films as a Blocking Layer in p-Type Dye-Sensitized Solar Cells with an Impressive 45% Fill Factor. Nanomaterials, 2020, 10, 167.	1.9	26
67	Influence of the Physical, Structural and Chemical Properties on the Photoresponse Property of Magnetron Sputtered TiO <sub>2</sub> for the Application of Water Splitting. Journal of Nanoscience and Nanotechnology, 2011, 11, 8642-8651.	0.9	25
68	Interdependency of optical constants inaâ^'Candaâ^'C:Hthin films interpreted in light of the density of electronic states. Physical Review B, 2000, 61, 5002-5010.	1.1	24
69	Formation of adherent polypyrrole coatings on Ti and Ti–6Al–4V alloy. Synthetic Metals, 2005, 148, 111-118.	2.1	24
70	The effect of plasmaâ€polymerised silicon hydrideâ€rich polyhydrogenmethylsiloxane on the adhesion of silicone elastomers. Polymer International, 2009, 58, 996-1001.	1.6	24
71	Application of diamond-like carbon films as hermetic coatings on optical fibres. Diamond and Related Materials, 1996, 5, 492-495.	1.8	23
72	The Effect of Masterbatch Addition on the Mechanical, Thermal, Optical and Surface Properties of Poly(lactic acid). Journal of Polymers and the Environment, 2009, 17, 28-33.	2.4	23

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73	Influence of doping on the photoactive properties of magnetron-sputtered titania coatings: Experimental and theoretical study. Physical Review B, 2012, 86, .	1.1	23
74	Electrochemical Characterization of Nanoporous Nickel Oxide Thin Films Spray-Deposited onto Indium-Doped Tin Oxide for Solar Conversion Scopes. Advances in Condensed Matter Physics, 2015, 2015, 1-18.	0.4	23
75	Investigation of the Effects of Gas versus Liquid Deposition in an Aerosolâ€Assisted Corona Deposition Process. Plasma Processes and Polymers, 2010, 7, 43-50.	1.6	22
76	Correlation Between the Electrical and Optical Properties of an Atmospheric Pressure Plasma During Siloxane Coating Deposition. Plasma Chemistry and Plasma Processing, 2011, 31, 139-156.	1.1	22
77	Storage Stability of an Antioxidant Active Packaging Coated with Citrus Extract Following a Plasma Jet Pretreatment. Food and Bioprocess Technology, 2014, 7, 2228-2240.	2.6	22
78	Diagnostics of an O <sub>2</sub> –He RF Atmospheric Plasma Discharge by Spectral Emission. Journal of the Physical Society of Japan, 2014, 83, 014501.	0.7	22
79	Enhancing the mechanical performance of additive manufactured polymer components using atmospheric plasma preâ€treatments. Plasma Processes and Polymers, 2018, 15, 1700141.	1.6	22
80	Thermal stability studies of atmospheric plasma deposited siloxane films deposited on Vycorâ"¢ glass. Surface and Coatings Technology, 2008, 202, 4130-4136.	2.2	21
81	The Influence of Process Parameters on Chemistry, Roughness and Morphology of Siloxane Films Deposited by an Atmospheric Plasma Jet System. Plasma Processes and Polymers, 2009, 6, S530.	1.6	21
82	A Comparison between Gas and Atomized Liquid Precursor States in the Deposition of Functional Coatings by Pin Corona Plasma. Plasma Processes and Polymers, 2011, 8, 230-238.	1.6	21
83	Investigation of the Formation Mechanism of Aligned Nano-Structured Siloxane Coatings Deposited Using an Atmospheric Plasma Jet. Plasma Processes and Polymers, 2013, 10, 888-903.	1.6	21
84	Differential Sensitivity of Mammalian Cell Lines to Nonâ€Thermal Atmospheric Plasma. Plasma Processes and Polymers, 2014, 11, 391-400.	1.6	21
85	In-situ XRD study on the effects of stress relaxation and phase transformation heat treatments on mechanical and microstructural behaviour of additively manufactured Ti-6Al-4V. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141534.	2.6	21
86	Rapid discharge sintering of nickel–diamond metal matrix composites. Journal of Materials Processing Technology, 2011, 211, 1210-1216.	3.1	20
87	Deposition of Hybrid Organic–Inorganic Composite Coatings Using an Atmospheric Plasma Jet System. Journal of Nanoscience and Nanotechnology, 2011, 11, 8730-8737.	0.9	20
88	Antifouling coatings made with Cold Spray onto polymers: Process characterization. CIRP Annals - Manufacturing Technology, 2016, 65, 545-548.	1.7	20
89	Evaluation of the influence of low pressure additive manufacturing processing conditions on printed polymer parts. Additive Manufacturing, 2018, 21, 404-412.	1.7	19
90	Prediction of tool-wear in turning of medical grade cobalt chromium molybdenum alloy (ASTM F75) using non-parametric Bayesian models. Journal of Intelligent Manufacturing, 2019, 30, 1259-1270.	4.4	19

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91	The effect of refractive index on the friction coefficient of DLC coated polymer substrates. Diamond and Related Materials, 1999, 8, 538-540.	1.8	18
92	Deposition of magnetron sputtered TiN+MoSx coating with Ti–TiN graded interlayer. Surface and Coatings Technology, 2005, 200, 1071-1075.	2.2	18
93	Novel, Nanoporous Silica and Titania Layers Fabricated by Magnetron Sputtering. ACS Applied Materials & Interfaces, 2011, 3, 252-260.	4.0	18
94	Evaluation and comparison of hydroxyapatite coatings deposited using both thermal and non-thermal techniques. Surface and Coatings Technology, 2013, 226, 82-91.	2.2	18
95	Evaluation of the sensitivity of bacterial and yeast cells to cold atmospheric plasma jet treatments. Biointerphases, 2015, 10, 029507.	0.6	18
96	Deposition of Biodegradable Polycaprolactone Coatings Using an Inâ€line Atmospheric Pressure Plasma System. Plasma Processes and Polymers, 2009, 6, S51.	1.6	17
97	Deposition of Non-Fouling PEO-Like Coatings Using a Low Temperature Atmospheric Pressure Plasma Jet. Plasma Processes and Polymers, 2016, 13, 241-252.	1.6	17
98	Cobalt Sulfide as Counter Electrode in p-Type Dye-Sensitized Solar Cells. ChemistrySelect, 2016, 1, 2808-2815.	0.7	17
99	Continuously deposited duplex biomedical coatings. Surface and Coatings Technology, 2007, 201, 5310-5317.	2.2	16
100	Surfaceâ€induced cell signaling events control actin rearrangements and motility. Journal of Biomedical Materials Research - Part A, 2010, 93A, 493-504.	2.1	16
101	Adhesion performance of TiN coating with amorphous NiTi alloy interlayer onto 316L stainless biosteel deposited by sputtering process. Surface Engineering, 2010, 26, 499-505.	1.1	16
102	Plasma Processing for Tailoring the Surface Properties of Polymers. , 0, , .		16
103	Characterization study of diamond and diamond-like carbon. Surface and Coatings Technology, 1992, 53, 177-183.	2.2	15
104	The effect of thermal treatments on the tribological properties of PVD hard coatings. Surface and Coatings Technology, 1999, 116-119, 1133-1137.	2.2	15
105	Influence of Atmospheric Plasma Source and Gas Composition on the Properties of Deposited Siloxane Coatings. Plasma Processes and Polymers, 2009, 6, S483.	1.6	15
106	Achieving enhanced DSSC performance by microwave plasma incorporation of carbon into TiO2 photoelectrodes. Applied Surface Science, 2013, 275, 289-294.	3.1	15
107	Influence of process parameters on the correlation between in-situ process monitoring data and the mechanical properties of Ti-6Al-4V non-stochastic cellular structures. Additive Manufacturing, 2019, 30, 100890.	1.7	15
108	Comparison of diamond-like carbon films deposited from 40 kHz and 13.56 MHz r.f. plasmas. Diamond and Related Materials, 1996, 5, 445-447.	1.8	14

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109	Wear resistance enhancement of the titanium alloy Ti–6Al–4V via a novel co-incident microblasting process. Surface and Coatings Technology, 2011, 205, 4941-4947.	2.2	14
110	Evaluation of the Effect of Plasma Treatment Frequency on the Activation of Polymer Particles. Plasma Chemistry and Plasma Processing, 2017, 37, 1223-1235.	1.1	14
111	Evaluation of the microstructure, mechanical and tribological properties of nickel-diamond nanocomposite coatings. Diamond and Related Materials, 2019, 94, 118-128.	1.8	14
112	Using in-situ process monitoring data to identify defective layers in Ti-6Al-4V additively manufactured porous biomaterials. Journal of Manufacturing Processes, 2021, 64, 1248-1254.	2.8	14
113	Investigation of mechanical properties of TiN+MoSx coating on plasma-nitrided substrate. Surface and Coatings Technology, 2005, 200, 1451-1457.	2.2	13
114	Influence of nm-Thick Atmospheric Plasma Deposited Coatings on the Adhesion of Silicone Elastomer to Stainless Steel. Journal of Adhesion Science and Technology, 2010, 24, 1291-1302.	1.4	13
115	Investigation of a scalable barrel atmospheric plasma reactor for the treatment of polymer particles. Surface and Coatings Technology, 2016, 308, 435-441.	2.2	13
116	Tailoring oxide-layer formation on titanium substrates using microwave plasma treatments. Surface and Coatings Technology, 2017, 325, 299-307.	2.2	13
117	Evaluation of Cell Behaviour on Atmospheric Plasma Deposited Siloxane and Fluorosiloxane Coatings. Journal of Adhesion Science and Technology, 2010, 24, 889-903.	1.4	12
118	The effects of geometry and laser power on the porosity and melt pool formation in additively manufactured 316L stainless steel. International Journal of Advanced Manufacturing Technology, 2020, 111, 1457-1470.	1.5	12
119	Correlation of molecular hydrogen dissociation and the film quality of diamondlike carbon in plasma enhanced chemical vapor deposition. Applied Physics Letters, 1995, 66, 3152-3154.	1.5	11
120	Comparing Deposition Properties in an Atmospheric Pressure Plasma System Operating in Uniform and Nonuniform Modes. IEEE Transactions on Plasma Science, 2009, 37, 961-969.	0.6	11
121	Evaluation of the mechanical behaviour of nanometre-thick coatings deposited using an atmospheric pressure plasma system. Surface and Coatings Technology, 2009, 203, 2021-2029.	2.2	11
122	DC Pulsed Atmospheric-Pressure Plasma Jet Image Information. IEEE Transactions on Plasma Science, 2011, 39, 2326-2327.	0.6	11
123	Conversion of amorphous TiO2 coatings into their crystalline form using a novel microwave plasma treatment. Surface and Coatings Technology, 2011, 205, S235-S240.	2.2	11
124	Fabrication of nano-structured TiO2 coatings using a microblast deposition technique. Applied Surface Science, 2013, 275, 316-323.	3.1	11
125	Influence of substrate metal alloy type on the properties of hydroxyapatite coatings deposited using a novel ambient temperature deposition technique. Journal of Biomedical Materials Research - Part A, 2014, 102, 871-879.	2.1	11
126	Achieving enhanced material finishing using cold plasma treatments. Transactions of the Institute of Metal Finishing, 2015, 93, 119-125.	0.6	11

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127	Impact of print bed build location on the dimensional accuracy and surface quality of parts printed by multi jet fusion. Journal of Manufacturing Processes, 2021, 70, 290-299.	2.8	11
128	Asymmetry of †valence' and †conduction' Gaussian π bands in a-C:H and a-C thin films and its origin. Diamond and Related Materials, 2000, 9, 732-735.	1.8	10
129	Enhancing polymer adhesion through surface activation using an in-line atmospheric pressure plasma. International Journal of Nanomanufacturing, 2007, 1, 554.	0.3	10
130	Effect of Process Parameters on Chemistry, Growth Rate and Nano-Sized Particulate Formation of Atmospheric Plasma Deposited, nm Thick Siloxane Coatings. Journal of Nanoscience and Nanotechnology, 2009, 9, 3506-3513.	0.9	10
131	Effect of Doping (C or N) and Co-Doping (C+N) on the Photoactive Properties of Magnetron Sputtered Titania Coatings for the Application of Solar Water-Splitting. Journal of Nanoscience and Nanotechnology, 2012, 12, 4729-4735.	0.9	10
132	Evaluation of the effectiveness of kINPen Med plasma jet and bioactive agent therapy in a rat model of wound healing. Biointerphases, 2018, 13, 051002.	0.6	10
133	Application of additive manufacturing in design & manufacturing engineering education. , 2018, , .		10
134	Converting a Microwave Oven into a Plasma Reactor: A Review. International Journal of Chemical Engineering, 2018, 2018, 1-12.	1.4	10
135	Investigation of process by-products during the Selective Laser Melting of Ti6AL4V powder. Additive Manufacturing, 2020, 36, 101514.	1.7	10
136	Ti–6Al–4V microstructural functionally graded material by additive manufacturing: Experiment and computational modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141782.	2.6	10
137	Modified drug release using atmospheric pressure plasma deposited siloxane coatings. Journal Physics D: Applied Physics, 2016, 49, 364005.	1.3	9
138	Correlating in-situ process monitoring data with the reduction in load bearing capacity of selective laser melted Ti–6Al–4V porous biomaterials. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 106, 103723.	1.5	9
139	The effect of atomic hydrogen on diamond-like carbon film production. Diamond and Related Materials, 1994, 3, 702-705.	1.8	8
140	Influence of Gas Type on the Thermal Efficiency of Microwave Plasmas for the Sintering of Metal Powders. Plasma Chemistry and Plasma Processing, 2011, 31, 771-785.	1.1	8
141	Importance of Plasma Thermal Energy Transfer for Plasma Jet Systems. IEEE Transactions on Plasma Science, 2014, 42, 2426-2427.	0.6	8
142	Air based atmospheric pressure plasma jet removal of FreKote 710-NC prior to composite-to-composite adhesive bonding. International Journal of Adhesion and Adhesives, 2014, 54, 72-81.	1.4	8
143	Limits on the use of cobalt sulfide as anode of p-type dye-sensitized solar cells. Journal Physics D: Applied Physics, 2017, 50, 215501.	1.3	8
144	First Evidence of Electrode Reconstruction in Mesoporous NiO After Operation as Photocathode of Dye‧ensitized Solar Cells. ChemistrySelect, 2018, 3, 6729-6736.	0.7	8

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145	Enhancing the mechanical performance of 3Dâ€printed basalt fiberâ€reinforced composites using inâ€line atmospheric plasma pretreatments. Plasma Processes and Polymers, 2020, 17, 1900143.	1.6	8
146	Synergistic toughening and electrical functionalization of an epoxy using <scp>MWCNTs</scp> and silane―/plasmaâ€activated basalt fibers. Journal of Applied Polymer Science, 2021, 138, .	1.3	8
147	The adhesion of hydrogenated amorphous carbon films on silicone. Thin Solid Films, 2001, 394, 101-107.	0.8	7
148	Diffusion within Ultrathin, Dense Nanoporous Silica Films. Langmuir, 2012, 28, 506-516.	1.6	7
149	Evaluation of Microwave Plasma Sintering for the Fabrication of Dye Sensitized Solar Cell (DSSC) Electrodes. Journal of Nanoscience and Nanotechnology, 2012, 12, 4769-4774.	0.9	7
150	Overall Migration and Kinetics of Release of Antioxidant Compounds from Citrus Extract-Based Active Packaging. Journal of Agricultural and Food Chemistry, 2013, 61, 12155-12163.	2.4	7
151	Three-Dimensional Coupled Fluid-Droplet Model for Atmospheric Pressure Plasmas. Plasma Processes and Polymers, 2015, 12, 201-213.	1.6	7
152	Predictive modelling of the water contact angle of surfaces using attenuated total reflection – Fourier transform infrared (ATR-FTIR) chemical imaging and partial least squares regression (PLSR). Analyst, The, 2018, 143, 3729-3740.	1.7	7
153	Selective laser melting of Ti-6Al-4V: Comparing μCT with in-situ process monitoring data. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 91-98.	2.3	7
154	Development and Implementation of a Digital Manufacturing Demonstrator for Engineering Education. Procedia CIRP, 2021, 104, 1674-1679.	1.0	7
155	Plasma power can slash small run sintering times. Metal Powder Report, 2010, 65, 10-13.	0.3	6
156	Microwave-assisted rapid discharge sintering of a bioactive glass–ceramic. Journal of Materials Science: Materials in Medicine, 2011, 22, 1625-1631.	1.7	6
157	Laser machined macro and micro structures on glass for enhanced light trapping in solar cells. Applied Physics A: Materials Science and Processing, 2013, 110, 661-665.	1.1	6
158	Mechanism of action of an antioxidant active packaging prepared with Citrus extract. LWT - Food Science and Technology, 2014, 59, 1082-1087.	2.5	6
159	Evaluation of the protective performance of hydrophobic coatings applied on carbon-fibre epoxy composites. Journal of Composite Materials, 2020, 54, 1327-1338.	1.2	6
160	NiO/ZrO <sub>2</sub> nanocomposites as photocathodes of tandem DSCs with higher photoconversion efficiency with respect to parent single-photoelectrode p-DSCs. Sustainable Energy and Fuels, 2021, 5, 4736-4748.	2.5	6
161	Quantitative measurements of atomic hydrogen during the deposition of diamond-like carbon films. Diamond and Related Materials, 1995, 4, 324-327.	1.8	5
162	Diamond deposition using a novel microwave applicator. Diamond and Related Materials, 2000, 9, 693-697.	1.8	5

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163	Comparison of thermal and microwaveassisted plasma sintering of nickel–diamond composites. Powder Metallurgy, 2010, 53, 188-190.	0.9	5
164	Comparison between the SBF Response of Hydroxyapatite Coatings Deposited Using both a Plasma-Spray and a Novel Co-Incident Micro-Blasting Technique. Key Engineering Materials, 0, 493-494, 483-488.	0.4	5
165	Comparison between Microwave and Microwave Plasma Sintering of Nickel Powders. Materials Science Forum, 0, 672, 289-292.	0.3	5
166	Investigation of the performance of a pilot-scale barrel atmospheric plasma system for plasma activation of polymer particles. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2019, 2, 1-7.	1.7	5
167	Evaluation of real-time non-invasive diagnostic tools for the monitoring of a pilot scale atmospheric pressure plasma system. Measurement Science and Technology, 2009, 20, 115703.	1.4	4
168	Mechanical Performance of the Annealed NiTi Shape Memory Alloy Coating onto 316L Stainless Bio-Steel. Defect and Diffusion Forum, 2010, 297-301, 365-369.	0.4	4
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