

# Stephen Daniels

## List of Publications by Citations

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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.

58

papers

689

citations

16

h-index

22

g-index

59

ext. papers

761

ext. citations

4.1

avg, IF

3.57

L-index

#	Paper	IF	Citations
58	High efficiency amine functionalization of cycloolefin polymer surfaces for biodiagnostics. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4116		46
57	Cold air plasma to decontaminate inanimate surfaces of the hospital environment. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 2004-10	4.8	39
56	PECVD of biocompatible coatings on 316L stainless steel. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 1031-1035	4.4	37
55	At-line bioprocess monitoring by immunoassay with rotationally controlled serial siphoning and integrated supercritical angle fluorescence optics. <i>Analytica Chimica Acta</i> , <b>2013</b> , 781, 54-62	6.6	34
54	Functionalization of cycloolefin polymer surfaces by plasma-enhanced chemical vapour deposition: comprehensive characterization and analysis of the contact surface and the bulk of aminosiloxane coatings. <i>Analyst, The</i> , <b>2010</b> , 135, 1375-81	5	32
53	An Efficient, Scalable Time-Frequency Method for Tracking Energy Usage of Domestic Appliances Using a Two-Step Classification Algorithm. <i>Energies</i> , <b>2014</b> , 7, 7041-7066	3.1	27
52	Influence of self-absorption on plasma diagnostics by emission spectral lines. <i>Optics Express</i> , <b>2012</b> , 20, 12699-709	3.3	23
51	Synthesis and characterisation of far-red fluorescent cyanine dye doped silica nanoparticles using a modified microemulsion method for application in bioassays. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 470-479	8.5	21
50	Evaluation of different nonspecific binding blocking agents deposited inside poly(methyl methacrylate) microfluidic flow-cells. <i>Langmuir</i> , <b>2011</b> , 27, 9043-51	4	21
49	Total internal reflection ellipsometry as a label-free assessment method for optimization of the reactive surface of bioassay devices based on a functionalized cycloolefin polymer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1927-36	4.4	21
48	Investigating the colloidal stability of fluorescent silica nanoparticles under isotonic conditions for biomedical applications. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 50-8	9.3	18
47	Plasma surface modification of cyclo-olefin polymers and its application to lateral flow bioassays. <i>Langmuir</i> , <b>2009</b> , 25, 11155-61	4	18
46	Interaction of Plasma Deposited HMDSO-Based Coatings with Fibrinogen and Human Blood Plasma: The Correlation between Bulk Plasma, Surface Characteristics and Biomolecule Interaction. <i>Plasma Processes and Polymers</i> , <b>2010</b> , 7, 411-421	3.4	18
45	PECVD coatings for functionalization of point-of-care biosensor surfaces. <i>Vacuum</i> , <b>2012</b> , 86, 547-555	3.7	17
44	Protection and functionalisation of silver as an optical sensing platform for highly sensitive SPR based analysis. <i>Analyst, The</i> , <b>2012</b> , 137, 5265-71	5	17
43	Functionalization of cyclo-olefin polymer substrates by plasma oxidation: stable film containing carboxylic acid groups for capturing biorecognition elements. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 81, 544-8	6	17
42	Simple approach to study biomolecule adsorption in polymeric microfluidic channels. <i>Analytica Chimica Acta</i> , <b>2013</b> , 760, 75-82	6.6	16

41	Surface microbial contamination in hospitals: A pilot study on methods of sampling and the use of proposed microbiologic standards. <i>American Journal of Infection Control</i> , <b>2015</b> , 43, 1000-2	3.8	14
40	Detecting <i>Clostridium difficile</i> spores from inanimate surfaces of the hospital environment: which method is best?. <i>Journal of Clinical Microbiology</i> , <b>2014</b> , 52, 3426-8	9.7	14
39	Multi-layered plasma-polymerized chips for SPR-based detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 4640-8	9.5	14
38	Evaluation of a Range of Surface Modifications for the Enhancement of Lateral Flow Assays on Cyclic Polyolefin Micropillar Devices. <i>Plasma Processes and Polymers</i> , <b>2009</b> , 6, 620-630	3.4	14
37	What is the best method? Recovery of methicillin-resistant <i>Staphylococcus aureus</i> and extended-spectrum $\beta$ -lactamase-producing <i>Escherichia coli</i> from inanimate hospital surfaces. <i>Infection Control and Hospital Epidemiology</i> , <b>2014</b> , 35, 869-71	2	13
36	Cold-air atmospheric pressure plasma against <i>Clostridium difficile</i> spores: a potential alternative for the decontamination of hospital inanimate surfaces. <i>Infection Control and Hospital Epidemiology</i> , <b>2015</b> , 36, 742-4	2	12
35	TIRF microscopy as a screening method for non-specific binding on surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 354, 405-9	9.3	12
34	A Comparative Study of Characteristics of SiO <sub>x</sub> CyHz, TiO <sub>x</sub> and SiO-TiO Oxide-Based Biocompatible Coatings. <i>Plasma Processes and Polymers</i> , <b>2007</b> , 4, S369-S373	3.4	12
33	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , <b>2012</b> , 12, 4877-83	7.2	11
32	Control and enhancement of the oxygen storage capacity of ceria films by variation of the deposition gas atmosphere during pulsed DC magnetron sputtering. <i>Journal of Power Sources</i> , <b>2015</b> , 279, 94-99	8.9	10
31	Tetraethyl Orthosilicate and Acrylic Acid Forming Robust Carboxylic Functionalities on Plastic Surfaces for Biodiagnostics. <i>Plasma Processes and Polymers</i> , <b>2012</b> , 9, 28-36	3.4	10
30	Examining the Impact of Dons Providing Peer Instruction for Academic Integrity: Dons and Students Perspectives. <i>Journal of Academic Ethics</i> , <b>2012</b> , 10, 137-150	1.5	10
29	Cooperative Merging of Atmospheric Pressure Plasma Jet Arrays. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 756-758	1.3	9
28	Ion angle distribution measurement with a planar retarding field analyzer. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 113501	1.7	9
27	Dendrimer driven self-assembly of SPR active silver-gold nanohybrids. <i>Langmuir</i> , <b>2013</b> , 29, 4430-3	4	8
26	Control of crystal structure, morphology and optical properties of ceria films by post deposition annealing treatments. <i>Thin Solid Films</i> , <b>2016</b> , 603, 363-370	2.2	8
25	Real-time control of electron density in a capacitively coupled plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 031302	2.9	7
24	Biocompatibility and Bioimaging Application of Carbon Nanoparticles Synthesized by Phosphorus Pentoxide Combustion Method. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-10	3.2	7

23	Morphological and chemical changes of aerosolized E. coli treated with a dielectric barrier discharge. <i>Biointerphases</i> , <b>2016</b> , 11, 011009	1.8	7
22	Investigation of etching optimization in capacitively coupled SF <sub>6</sub> /O <sub>2</sub> plasma. <i>AIP Advances</i> , <b>2019</b> , 9, 0350475	5	6
21	Investigating Perceptions of Students to a Peer-Based Academic Integrity Presentation Provided by Residence Dons. <i>Journal of Academic Ethics</i> , <b>2014</b> , 12, 89-99	1.5	6
20	Phase-resolved optical emission spectroscopy for an electron cyclotron resonance etcher. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 163302	2.5	6
19	Highly enhanced UV responsive conductivity and blue emission in transparent CuBr films: implication for emitter and dosimeter applications. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10270-10279 <sup>1</sup>	7.1	5
18	Improving the sensitivity of immunoassays with PEG-COOH-like film prepared by plasma-based technique. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 230-5	5.4	5
17	Room temperature deposition of tunable plasmonic nanostructures by atmospheric pressure jet plasma. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9485		5
16	Al speed fill. <i>Materials Science in Semiconductor Processing</i> , <b>1999</b> , 2, 75-85	4.3	5
15	Electrical properties of CuCl thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 144-148	2.1	4
14	Experimental investigation of SF <sub>6</sub> /O <sub>2</sub> plasma for advancement of the anisotropic Si etch process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 031307	2.9	3
13	Pulsed-Plasma Physical Vapor Deposition Approach Toward the Facile Synthesis of Multilayer and Monolayer Graphene for Anticoagulation Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4878-86	9.5	3
12	Enhanced Optical Properties of ZnO and CeO-coated ZnO Nanostructures Achieved Via Spherical Nanoshells Growth On A Polystyrene Template. <i>Scientific Reports</i> , <b>2017</b> , 7, 3737	4.9	3
11	Protein Integrated, Functionally Active Silver Nanoplanar Structures for Enhanced SPR. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3078-3083	3.8	3
10	Similarity ratio analysis for early stage fault detection with optical emission spectrometer in plasma etching process. <i>PLoS ONE</i> , <b>2014</b> , 9, e95679	3.7	3
9	Attenuation of wall disturbances in an electron cyclotron resonance oxygen/argon plasma using real time control. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2014</b> , 32, 041301	2.9	2
8	Dimension reduction of multivariable optical emission spectrometer datasets for industrial plasma processes. <i>Sensors</i> , <b>2013</b> , 14, 52-67	3.8	2
7	Cold Plasma Technology and Reducing Surface Bacterial Counts: A Pilot Study. <i>Infection Control and Hospital Epidemiology</i> , <b>2017</b> , 38, 494-496	2	1
6	Challenges in assessing contamination levels and novel decontamination technologies in the critical care setting. <i>Infection Control and Hospital Epidemiology</i> , <b>2020</b> , 41, 622-623	2	1

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| 5 | Influence of Oxygen Plasma on the Growth, Structure, Morphology, and Electro-Optical Properties of p-Type Transparent Conducting CuBr Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23226-23232       | 3.8 | 1 |
| 4 | Using Atmospheric Pressure Tendency to Optimise Battery Charging in Off-Grid Hybrid Wind-Diesel Systems for Telecoms. <i>Energies</i> , <b>2013</b> , 6, 3052-3071  | 3.1 | 1 |
| 3 | Operational noise associated with underwater sound emitting vessels and potential effect of oceanographic conditions: a Dublin Bay port area study. <i>Journal of Marine Science and Technology</i> , <b>2018</b> , 23, 228-235 | 1.7 | 1 |
| 2 | Formation of a Double Layer in Electronegative $\text{O}_2$ Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2014</b> , 42, 2798-2799  | 1.3 | 0 |
| 1 | Plasma-Fabricated Surface Plasmon Resonance Chip for Biosensing. <i>Australian Journal of Chemistry</i> , <b>2015</b> , 68, 447   | 1.2 |   |