

Stephen Daniels

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.

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	Challenges in assessing contamination levels and novel decontamination technologies in the critical care setting. <i>Infection Control and Hospital Epidemiology</i> , 2020 , 41, 622-623	2	1
57	Investigation of etching optimization in capacitively coupled SF ₆ O ₂ plasma. <i>AIP Advances</i> , 2019 , 9, 0350475	4.7	6
56	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> , 2018 , 23, 228-235	1.7	1
55	Cold Plasma Technology and Reducing Surface Bacterial Counts: A Pilot Study. <i>Infection Control and Hospital Epidemiology</i> , 2017 , 38, 494-496	2	1
54	Experimental investigation of SF ₆ O ₂ plasma for advancement of the anisotropic Si etch process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 031307	2.9	3
53	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> , 2017 , 5, 10270-10279 ¹	7.1	5
52	Enhanced Optical Properties of ZnO and CeO-coated ZnO Nanostructures Achieved Via Spherical Nanoshells Growth On A Polystyrene Template. <i>Scientific Reports</i> , 2017 , 7, 3737	4.9	3
51	Pulsed-Plasma Physical Vapor Deposition Approach Toward the Facile Synthesis of Multilayer and Monolayer Graphene for Anticoagulation Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4878-86	9.5	3
50	Morphological and chemical changes of aerosolized E. coli treated with a dielectric barrier discharge. <i>Biointerphases</i> , 2016 , 11, 011009	1.8	7
49	Control of crystal structure, morphology and optical properties of ceria films by post deposition annealing treatments. <i>Thin Solid Films</i> , 2016 , 603, 363-370	2.2	8
48	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> , 2015 , 221, 470-479	8.5	21
47	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> , 2015 , 43, 1000-2	3.8	14
46	Investigating the colloidal stability of fluorescent silica nanoparticles under isotonic conditions for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2015 , 456, 50-8	9.3	18
45	Plasma-Fabricated Surface Plasmon Resonance Chip for Biosensing. <i>Australian Journal of Chemistry</i> , 2015 , 68, 447	1.2	
44	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> , 2015 , 36, 742-4	2	12
43	Ion angle distribution measurement with a planar retarding field analyzer. <i>Review of Scientific Instruments</i> , 2015 , 86, 113501	1.7	9
42	Biocompatibility and Bioimaging Application of Carbon Nanoparticles Synthesized by Phosphorus Pentoxide Combustion Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-10	3.2	7

41	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> , 2015 , 279, 94-99	8.9	10
40	Cooperative Merging of Atmospheric Pressure Plasma Jet Arrays. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 756-758	1.3	9
39	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> , 2014 , 32, 041301	2.9	2
38	Formation of a Double Layer in Electronegative O_2 Plasma. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2798-2799	1.3	0
37	Investigating Perceptions of Students to a Peer-Based Academic Integrity Presentation Provided by Residence Dons. <i>Journal of Academic Ethics</i> , 2014 , 12, 89-99	1.5	6
36	Detecting Clostridium difficile spores from inanimate surfaces of the hospital environment: which method is best?. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 3426-8	9.7	14
35	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> , 2014 , 118, 23226-23232	3.8	1
34	Cold air plasma to decontaminate inanimate surfaces of the hospital environment. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2004-10	4.8	39
33	What is the best method? Recovery of methicillin-resistant Staphylococcus aureus and extended-spectrum β -lactamase-producing Escherichia coli from inanimate hospital surfaces. <i>Infection Control and Hospital Epidemiology</i> , 2014 , 35, 869-71	2	13
32	An Efficient, Scalable Time-Frequency Method for Tracking Energy Usage of Domestic Appliances Using a Two-Step Classification Algorithm. <i>Energies</i> , 2014 , 7, 7041-7066	3.1	27
31	Similarity ratio analysis for early stage fault detection with optical emission spectrometer in plasma etching process. <i>PLoS ONE</i> , 2014 , 9, e95679	3.7	3
30	Dendrimer driven self-assembly of SPR active silver-gold nanohybrids. <i>Langmuir</i> , 2013 , 29, 4430-3	4	8
29	At-line bioprocess monitoring by immunoassay with rotationally controlled serial siphoning and integrated supercritical angle fluorescence optics. <i>Analytica Chimica Acta</i> , 2013 , 781, 54-62	6.6	34
28	Simple approach to study biomolecule adsorption in polymeric microfluidic channels. <i>Analytica Chimica Acta</i> , 2013 , 760, 75-82	6.6	16
27	Real-time control of electron density in a capacitively coupled plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 031302	2.9	7
26	Dimension reduction of multivariable optical emission spectrometer datasets for industrial plasma processes. <i>Sensors</i> , 2013 , 14, 52-67	3.8	2
25	Protein Integrated, Functionally Active Silver Nanoplanar Structures for Enhanced SPR. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3078-3083	3.8	3
24	Using Atmospheric Pressure Tendency to Optimise Battery Charging in Off-Grid Hybrid Wind-Diesel Systems for Telecoms. <i>Energies</i> , 2013 , 6, 3052-3071	3.1	1

23	Phase-resolved optical emission spectroscopy for an electron cyclotron resonance etcher. <i>Journal of Applied Physics</i> , 2013 , 113, 163302	2.5	6
22	PECVD coatings for functionalization of point-of-care biosensor surfaces. <i>Vacuum</i> , 2012 , 86, 547-555	3.7	17
21	Improving the sensitivity of immunoassays with PEG-COOH-like film prepared by plasma-based technique. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 230-5	5.4	5
20	Protection and functionalisation of silver as an optical sensing platform for highly sensitive SPR based analysis. <i>Analyst, The</i> , 2012 , 137, 5265-71	5	17
19	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , 2012 , 12, 4877-83	7.2	11
18	Tetraethyl Orthosilicate and Acrylic Acid Forming Robust Carboxylic Functionalities on Plastic Surfaces for Biodiagnostics. <i>Plasma Processes and Polymers</i> , 2012 , 9, 28-36	3.4	10
17	Room temperature deposition of tunable plasmonic nanostructures by atmospheric pressure jet plasma. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9485		5
16	Examining the Impact of Dons Providing Peer Instruction for Academic Integrity: Dons and Students' Perspectives. <i>Journal of Academic Ethics</i> , 2012 , 10, 137-150	1.5	10
15	Influence of self-absorption on plasma diagnostics by emission spectral lines. <i>Optics Express</i> , 2012 , 20, 12699-709	3.3	23
14	Evaluation of different nonspecific binding blocking agents deposited inside poly(methyl methacrylate) microfluidic flow-cells. <i>Langmuir</i> , 2011 , 27, 9043-51	4	21
13	Multi-layered plasma-polymerized chips for SPR-based detection. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4640-8	9.5	14
12	TIRF microscopy as a screening method for non-specific binding on surfaces. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 405-9	9.3	12
11	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> , 2010 , 135, 1375-81	5	32
10	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> , 2010 , 81, 544-8	6	17
9	High efficiency amine functionalization of cycloolefin polymer surfaces for biodiagnostics. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4116		46
8	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> , 2010 , 398, 1927-36	4.4	21
7	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> , 2010 , 7, 411-421	3.4	18
6	Electrical properties of ECuCl thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 144-148	2.1	4

5	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> , 2009 , 6, 620-630	3-4	14
4	Plasma surface modification of cyclo-olefin polymers and its application to lateral flow bioassays. <i>Langmuir</i> , 2009 , 25, 11155-61	4	18
3	A Comparative Study of Characteristics of SiO _x CyHz, TiO _x and SiO-TiO Oxide-Based Biocompatible Coatings. <i>Plasma Processes and Polymers</i> , 2007 , 4, S369-S373	3-4	12
2	PECVD of biocompatible coatings on 316L stainless steel. <i>Surface and Coatings Technology</i> , 2005 , 200, 1031-1035	4-4	37
1	Al speed fill. <i>Materials Science in Semiconductor Processing</i> , 1999 , 2, 75-85	4-3	5