

Stephen Daniels

List of Publications by Year in descending order

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59
papers

830
citations

471061

17
h-index

580395

25
g-index

59
all docs

59
docs citations

59
times ranked

1199
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold Air Plasma To Decontaminate Inanimate Surfaces of the Hospital Environment. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2004-2010.	1.4	59
2	High efficiency amine functionalization of cycloolefin polymer surfaces for biodiagnostics. <i>Journal of Materials Chemistry</i> , 2010, 20, 4116.	6.7	51
3	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.	2.6	43
4	PECVD of biocompatible coatings on 316L stainless steel. <i>Surface and Coatings Technology</i> , 2005, 200, 1031-1035.	2.2	42
5	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.	1.6	40
6	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</i> , The, 2010, 135, 1375.	1.7	33
7	Influence of self-absorption on plasma diagnostics by emission spectral lines. <i>Optics Express</i> , 2012, 20, 12699.	1.7	30
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, 1927-1936.	1.9	25
9	Evaluation of Different Nonspecific Binding Blocking Agents Deposited Inside Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	23
10	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.	4.0	22
11	Detecting <i>Clostridium difficile</i> Spores from Inanimate Surfaces of the Hospital Environment: Which Method Is Best?. <i>Journal of Clinical Microbiology</i> , 2014, 52, 3426-3428.	1.8	21
12	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.	1.6	20
13	Plasma Surface Modification of Cyclo-olefin Polymers and Its Application to Lateral Flow Bioassays. <i>Langmuir</i> , 2009, 25, 11155-11161.	1.6	19
14	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, 544-548.	2.5	19
15	Protection and functionalisation of silver as an optical sensing platform for highly sensitive SPR based analysis. <i>Analyst</i> , The, 2012, 137, 5265.	1.7	19
16	PECVD coatings for functionalization of point-of-care biosensor surfaces. <i>Vacuum</i> , 2012, 86, 547-555.	1.6	18
17	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, 1000-1002.	1.1	18
18	Investigating the colloidal stability of fluorescent silica nanoparticles under isotonic conditions for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 50-58.	5.0	18

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19	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.	1.6	17
20	Simple approach to study biomolecule adsorption in polymeric microfluidic channels. <i>Analytica Chimica Acta</i> , 2013, 760, 75-82.	2.6	17
21	What Is the Best Method? Recovery of Methicillin-Resistant <i>Staphylococcus aureus</i> and Extended-Spectrum β -Lactamase-Producing <i>Escherichia coli</i> from Inanimate Hospital Surfaces. <i>Infection Control and Hospital Epidemiology</i> , 2014, 35, 869-871.	1.0	17
22	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, 742-744.	1.0	17
23	Multi-Layered Plasma-Polymerized Chips for SPR-Based Detection. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4640-4648.	4.0	15
24	Cooperative Merging of Atmospheric Pressure Plasma Jet Arrays. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 756-758.	0.6	14
25	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.	1.6	13
26	TIRF microscopy as a screening method for non-specific binding on surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 405-409.	5.0	13
27	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , 2012, 12, 4877.	3.1	11
28	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	11
29	Tetraethyl Orthosilicate and Acrylic Acid Forming Robust Carboxylic Functionalities on Plastic Surfaces for Biodiagnostics. <i>Plasma Processes and Polymers</i> , 2012, 9, 28-36.	1.6	10
30	Ion angle distribution measurement with a planar retarding field analyzer. <i>Review of Scientific Instruments</i> , 2015, 86, 113501.	0.6	10
31	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.	4.0	10
32	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.	0.8	10
33	Dendrimer Driven Self-Assembly of SPR Active Silver-Gold Nanohybrids. <i>Langmuir</i> , 2013, 29, 4430-4433.	1.6	9
34	Biocompatibility and Bioimaging Application of Carbon Nanoparticles Synthesized by Phosphorus Pentoxide Combustion Method. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	1.5	9
35	Phase-resolved optical emission spectroscopy for an electron cyclotron resonance etcher. <i>Journal of Applied Physics</i> , 2013, 113, 163302.	1.1	8
36	Morphological and chemical changes of aerosolized <i>E. coli</i> treated with a dielectric barrier discharge. <i>Biointerphases</i> , 2016, 11, 011009.	0.6	8

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37	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.	2.7	8
38	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.	0.9	7
39	Dimension Reduction of Multivariable Optical Emission Spectrometer Datasets for Industrial Plasma Processes. <i>Sensors</i> , 2014, 14, 52-67.	2.1	7
40	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	7
41	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, .	0.9	7
42	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, 100A, 230-235.	2.1	6
43	Investigation of etching optimization in capacitively coupled SF ₆ /O ₂ plasma. <i>AIP Advances</i> , 2019, 9, 035047.	0.6	6
44	Al speed fill. <i>Materials Science in Semiconductor Processing</i> , 1999, 2, 75-85.	1.9	5
45	Room temperature deposition of tunable plasmonic nanostructures by atmospheric pressure jet plasma. <i>Journal of Materials Chemistry</i> , 2012, 22, 9485.	6.7	5
46	Electrical properties of ¹¹³ CuCl thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 144-148.	1.1	4
47	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.	1.5	4
48	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, 4878-4886.	4.0	4
49	Enhanced Optical Properties of ZnO and CeO ₂ -coated ZnO Nanostructures Achieved Via Spherical Nanoshells Growth On A Polystyrene Template. <i>Scientific Reports</i> , 2017, 7, 3737.	1.6	4
50	Protein Integrated, Functionally Active Silver Nanoplanar Structures for Enhanced SPR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3078-3083.	1.5	3
51	Using Atmospheric Pressure Tendency to Optimise Battery Charging in Off-Grid Hybrid Wind-Diesel Systems for Telecoms. <i>Energies</i> , 2013, 6, 3052-3071.	1.6	3
52	Similarity Ratio Analysis for Early Stage Fault Detection with Optical Emission Spectrometer in Plasma Etching Process. <i>PLoS ONE</i> , 2014, 9, e95679.	1.1	3
53	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.	0.9	2
54	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.	1.3	2

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55	Thin film diffusion barrier formation in PDMS microcavities. , 2009, , .		1
56	Formation of a Double Layer in Electronegative mO_{2} Plasma. IEEE Transactions on Plasma Science, 2014, 42, 2798-2799.	0.6	1
57	Cold Plasma Technology and Reducing Surface Bacterial Counts: A Pilot Study. Infection Control and Hospital Epidemiology, 2017, 38, 494-496.	1.0	1
58	Challenges in assessing contamination levels and novel decontamination technologies in the critical care setting. Infection Control and Hospital Epidemiology, 2020, 41, 622-623.	1.0	1
59	Plasma-Fabricated Surface Plasmon Resonance Chip for Biosensing. Australian Journal of Chemistry, 2015, 68, 447.	0.5	0