

# Chris Mills

## 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.

94  
papers

2,430  
citations

30  
h-index

45  
g-index

96  
ext. papers

2,669  
ext. citations

5.6  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
94	Continuous In-Line Chromium Coating Thickness Measurement Methodologies: An Investigation of Current and Potential Technology. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
93	Hybrid Multipixel Array X-Ray Detectors for Real-Time Direct Detection of Hard X-Rays. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 2238-2245	1.7	3
92	Improvement in the Electrical Properties of Nickel-Plated Steel Using Graphitic Carbon Coatings. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900408	3.5	0
91	Millimeter-Scale Unipolar Transport in High Sensitivity Organic-Inorganic Semiconductor X-ray Detectors. <i>ACS Nano</i> , <b>2019</b> , 13, 6973-6981	16.7	17
90	X-ray micro-computed tomography as a non-destructive tool for imaging the uptake of metal nanoparticles by graphene-based 3D carbon structures. <i>Nanoscale</i> , <b>2019</b> , 11, 14734-14741	7.7	3
89	A unified theoretical model for Triboelectric Nanogenerators. <i>Nano Energy</i> , <b>2018</b> , 48, 391-400	17.1	52
88	High sensitivity organic inorganic hybrid X-ray detectors with direct transduction and broadband response. <i>Nature Communications</i> , <b>2018</b> , 9, 2926	17.4	102
87	Physicochemical characterisation of reduced graphene oxide for conductive thin films.. <i>RSC Advances</i> , <b>2018</b> , 8, 37540-37549	3.7	10
86	Controlled growth and spray deposition of silver nanowires for ITO-free, flexible, and high brightness OLEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1600561	1.6	10
85	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-10	3.2	6
84	Triboelectric nanogenerators: providing a fundamental framework. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1801-1811	35.4	130
83	Charge Funneling through Metal Electrode Structuring for High-Efficiency Gains in Polymer Solar Cells. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600049	6.4	3
82	Pt-free spray coated reduced graphene oxide counter electrodes for dye sensitized solar cells. <i>Solar Energy</i> , <b>2016</b> , 137, 143-147	6.8	30
81	Achieving 6.7% Efficiency in P3HT/Indene-C70 Bisadduct Solar Cells through the Control of Vertical Volume Fraction Distribution and Optimized Regio-Isomer Ratios. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600362	6.4	7
80	High efficiency air stable organic photovoltaics with an aqueous inorganic contact. <i>Nanoscale</i> , <b>2015</b> , 7, 14241-7	7.7	9
79	Effect of solution processed and thermally evaporated interlayers on the performance of backgrated polymer solar cells. <i>Thin Solid Films</i> , <b>2015</b> , 591, 159-163	2.2	
78	Simultaneous optical and electrical modeling of plasmonic light trapping in thin-film amorphous silicon photovoltaic devices. <i>Journal of Photonics for Energy</i> , <b>2015</b> , 5, 057007	1.2	8

77	The true status of solar cell technology. <i>Nature Photonics</i> , <b>2015</b> , 9, 207-208	33.9	11
76	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 17441-9	7.7	11
75	The band structure of graphene oxide examined using photoluminescence spectroscopy. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12484-12491	7.1	44
74	Filtration properties of hierarchical carbon nanostructures deposited on carbon fibre fabrics. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 115305	3	4
73	Hybrid and nanocomposite materials for flexible organic electronics applications <b>2015</b> , 57-84		1
72	Hybrid and Nano-composite Carbon Sensing Platforms <b>2015</b> , 105-132		
71	Hybrid graphene-metal oxide solution processed electron transport layers for large area high-performance organic photovoltaics. <i>Advanced Materials</i> , <b>2014</b> , 26, 2078-83	24	84
70	Storage Lifetime of Polymer-Carbon Nanotube Inks for Use as Charge Transport Layers in Organic Light Emitting Diodes. <i>Journal of Display Technology</i> , <b>2014</b> , 10, 125-131		8
69	Silver grid transparent conducting electrodes for organic light emitting diodes. <i>Organic Electronics</i> , <b>2014</b> , 15, 3492-3500	3.5	23
68	Hybrid metal grid-polymer-carbon nanotube electrodes for high luminance organic light emitting diodes. <i>Nanotechnology</i> , <b>2014</b> , 25, 345202	3.4	7
67	Thin film hexagonal gold grids as transparent conducting electrodes in organic light emitting diodes. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 172-179	8.3	37
66	Graphene oxide hole transport layers for large area, high efficiency organic solar cells. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 073304	3.4	45
65	Inorganics-in-organics recent developments and outlook for 4G polymer solar cells. <i>Nanoscale</i> , <b>2013</b> , 5, 8411-27	7.7	132
64	Enhanced x-ray detection sensitivity in semiconducting polymer diodes containing metallic nanoparticles. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 275102	3	37
63	Solution processed naphthalene diimide derivative as electron transport layers for enhanced brightness and efficient polymer light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3347	7.1	15
62	Direct detection of 6 MV x-rays from a medical linear accelerator using a semiconducting polymer diode. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4471-82	3.8	18
61	Polymer-based technology platform for robust electrochemical sensing using gold microelectrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 161, 279-284	8.5	8
60	Heavy metallic oxide nanoparticles for enhanced sensitivity in semiconducting polymer x-ray detectors. <i>Nanotechnology</i> , <b>2012</b> , 23, 235502	3.4	47

59	Simultaneous biochemical and topographical patterning on curved surfaces using biocompatible sacrificial molds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 98, 229-34	5.4	9
58	Characterization of a self-assembled monolayer based on a calix[4]crown-5 derivate: fabrication of a chemical sensor sensitive to calcium. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 413-20	1.3	5
57	Achieving a stable time response in polymeric radiation sensors under charge injection by X-rays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1692-9	9.5	36
56	Sharp high-aspect-ratio AFM tips fabricated by a combination of deep reactive ion etching and focused ion beam techniques. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 497-501	1.3	6
55	Comparison of the x-ray spectroscopy response and charge transport properties of semi-insulating In/Al doped CdZnTe crystals. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 083101	2.5	4
54	Characterization of thick film poly(triarylamine) semiconductor diodes for direct x-ray detection. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 064513	2.5	40
53	Flexible radiation dosimeters incorporating semiconducting polymer thick films <b>2009</b> ,		13
52	Complex microstructured 3D surfaces using chitosan biopolymer. <i>Small</i> , <b>2009</b> , 5, 614-20	11	39
51	Large-area, nanoimprint-assisted microcontact stripping for the fabrication of microarrays of fouling/nonfouling nanostructures. <i>Small</i> , <b>2009</b> , 5, 1133-7	11	3
50	Mesenchymal stem cell differentiation on microstructured poly (methyl methacrylate) substrates. <i>Annals of Anatomy</i> , <b>2009</b> , 191, 136-44	2.9	35
49	Study on temperature dependent resistivity of indium-doped cadmium zinc telluride. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 035105	3	18
48	Stem cell differentiation by functionalized micro- and nanostructured surfaces. <i>Nanomedicine</i> , <b>2009</b> , 4, 65-82	5.6	77
47	Inverted microcontact printing on polystyrene-block-poly(tert-butyl acrylate) films: a versatile approach to fabricate structured biointerfaces across the length scales. <i>Langmuir</i> , <b>2008</b> , 24, 8841-9	4	26
46	Impedimetric microanalysis system for deep vein thrombosis point-of-care testing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 1856	0.9	0
45	Micro- and nanostructuring of freestanding, biodegradable, thin sheets of chitosan via soft lithography. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 242-7	5.4	17
44	The use of high glass temperature polymers in the production of transparent, structured surfaces using nanoimprint lithography. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 1897-1901	2.5	11
43	Focused ion beam production of nanoelectrode arrays. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 777-780	8.3	17
42	Focused ion beam/scanning electron microscopy characterization of cell behavior on polymer micro-/nanopatterned substrates: a study of cell-substrate interactions. <i>Micron</i> , <b>2008</b> , 39, 111-6	2.3	56

41	Multiplexed Frequency Spectrum Analyzer Instrumentation for the Characterization of Multiple QCM-Based Biosensors <b>2007</b> ,		2
40	A novel point of care diagnostic device: impedimetric detection of a biomarker in whole blood. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 115-8		3
39	Micro/nanopatterning of proteins via contact printing using high aspect ratio PMMA stamps and nanoimprint apparatus. <i>Langmuir</i> , <b>2007</b> , 23, 8614-8	4	29
38	Forced Soft Lithography (FSL): Production of Micro- and Nanostructures in Thin Freestanding Sheets of Chitosan Biopolymer. <i>Advanced Materials</i> , <b>2007</b> , 19, 3696-3701	24	11
37	Polymer-based micro-sensor paired arrays for the determination of primary alcohol vapors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 125, 85-91	8.5	12
36	Directional alignment of MG63 cells on polymer surfaces containing point microstructures. <i>Small</i> , <b>2007</b> , 3, 871-9	11	20
35	Influence of surface modification on vitality and differentiation of Caco-2 cells. <i>Differentiation</i> , <b>2007</b> , 75, 308-17	3.5	12
34	Low cost micro-Coulter counter with hydrodynamic focusing. <i>Microfluidics and Nanofluidics</i> , <b>2007</b> , 3, 171-186	18.6	61
33	Electropolymerization of nano-dimensioned polypyrrole micro-ring arrays on gold substrates prepared using submerged micro-contact printing. <i>Nanotechnology</i> , <b>2007</b> , 18, 485301	3.4	32
32	Structured Thin Organic Active Layers and Their Use in Electrochemical Biosensors. <i>Measurement and Control</i> , <b>2007</b> , 40, 88-91	1.5	2
31	Nanoembossed Polymer Substrates for Biomedical Surface Interaction Studies. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 4588-4594	1.3	8
30	Transparent micro- and nanopatterned poly(lactic acid) for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 781-7	5.4	32
29	Detection of Olfactory Receptor I7 Self-Assembled Multilayer Formation and Immobilization Using a Quartz Crystal Microbalance. <i>Analytical Letters</i> , <b>2006</b> , 39, 1735-1745	2.2	9
28	Atomic Force Microscopy Characterization of a Microcontact Printed, Self-Assembled Thiol Monolayer for Use in Biosensors. <i>Analytical Letters</i> , <b>2006</b> , 39, 1721-1734	2.2	15
27	A Multiplexed Impedance Analyzer for Characterizing Polymer-Coated QCM Sensor Arrays. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 996-1002	4	18
26	All-polymer microfluidic particle size sorter for biomedical applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1476-1480	1.6	2
25	Submerged microcontact printing (SmuCP): an unconventional printing technique of thiols using high aspect ratio, elastomeric stamps. <i>Langmuir</i> , <b>2005</b> , 21, 12060-3	4	32
24	Direct voltammetric determination of gold nanoparticles using graphite-epoxy composite electrode. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 3702-3707	6.7	89

23	Production of structures for microfluidics using polymer imprint techniques. <i>Microelectronic Engineering</i> , <b>2005</b> , 78-79, 695-700	2.5	45
22	Micro- and nanostructuring of poly(ethylene-2,6-naphthalate) surfaces, for biomedical applications, using polymer replication techniques. <i>Nanotechnology</i> , <b>2005</b> , 16, 369-375	3.4	26
21	Current and future uses of breath analysis as a diagnostic tool. <i>Veterinary Record</i> , <b>2004</b> , 154, 353-60	0.9	15
20	All-digital interface ASIC for a QCM-based electronic nose. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 31-36	8.5	25
19	Microsystems for optical gas sensing incorporating the solvatochromic dye Nile Red. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 73-80	8.5	25
18	Effects of space charge at the conjugated polymer/electrode interface. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5182-5189	2.5	25
17	Memory effect in the current-voltage characteristic of a low-band gap conjugated polymer. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 306-309	2.5	60
16	Langmuir and Langmuir-Blodgett (LB) films of 4-dicyanomethylene,4H-cyclopenta[2,1B,3,4B?]dithiophene. <i>Thin Solid Films</i> , <b>2000</b> , 366, 249-254	2.2	5
15	The electrical characteristics of a heterojunction diode formed from an aniline oligomer LB-deposited onto poly(3-methylthiophene). <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 91-97		4
14	The preparation and characterisation of polymeric macrostructures (command surfaces) using electropolymerisation. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1551-1554		4
13	Investigations into a low band gap, semiconducting polymer. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1000-1001	3.6	15
12	Reproduction and life history <b>1991</b> , 483-508		56
11	The effect of extreme northerly climatic conditions on the life history of the minnow, <i>Phoxinus phoxinus</i> (L.). <i>Journal of Fish Biology</i> , <b>1988</b> , 33, 545-561	1.9	45
10	Variations in the sizes of gonads, eggs and larvae of the dace, <i>Leuciscus leuciscus</i> . <i>Environmental Biology of Fishes</i> , <b>1985</b> , 13, 277-287	1.6	50
9	Environmentally-induced fluctuations in year-class strength and their implications for management. <i>Journal of Fish Biology</i> , <b>1985</b> , 27, 209-226	1.9	143
8	The age, growth and reproduction of the stone loach <i>Noemacheilus barbatulus</i> (L.) in a Dorset chalk stream. <i>Freshwater Biology</i> , <b>1983</b> , 13, 283-292	3.1	23
7	Factors affecting the survival of dace, <i>Leuciscus leuciscus</i> (L.), in the early post-hatching period. <i>Journal of Fish Biology</i> , <b>1982</b> , 20, 645-655	1.9	24
6	The attachment of dace, <i>Leuciscus leuciscus</i> L., eggs to the spawning substratum and the influence of changes in water current on their survival. <i>Journal of Fish Biology</i> , <b>1981</b> , 19, 129-134	1.9	23

5	Temperature-dependent survival and reproduction within populations of the ectoparasitic digenean <i>Transversotrema patialense</i> on the fish host. <i>Parasitology</i> , <b>1980</b> , 81, 91-102	2.7	11
4	Attachment and feeding of the adult ectoparasitic digenean <i>Transversotrema patialense</i> (Soparkar, 1924) on the zebra fish <i>Brachydanio rerio</i> (Hamilton-Buchanan). <i>Journal of Fish Diseases</i> , <b>1979</b> , 2, 443-447 <sup>2.6</sup>	2.6	3
3	Density-Dependent Survival and Reproduction Within Populations of the Ectoparasitic Digenean <i>Transversotrema patialense</i> on the Fish Host. <i>Journal of Animal Ecology</i> , <b>1979</b> , 48, 383	4.7	13
2	An Experimental Study of the Population Dynamics of an Ectoparasitic Digenean, <i>Transversotrema patialense</i> : The Cercarial and Adult Stages. <i>Journal of Animal Ecology</i> , <b>1977</b> , 46, 555	4.7	30
1	THE INFLUENCE OF CLIMATE ON METABOLIC AND THERMAL RESPONSES OF INFANT CARIBOU. <i>Canadian Journal of Zoology</i> , <b>1961</b> , 39, 845-856	1.5	34