

# John Greenman

## List of Publications by Year in descending order

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115  
papers

5,826  
citations

47006

47  
h-index

82547

72  
g-index

115  
all docs

115  
docs citations

115  
times ranked

3240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial fuel cells based on carbon veil electrodes: Stack configuration and scalability. International Journal of Energy Research, 2008, 32, 1228-1240.	4.5	293
2	Urine utilisation by microbial fuel cells; energy fuel for the future. Physical Chemistry Chemical Physics, 2012, 14, 94-98.	2.8	205
3	Effects of flow-rate, inoculum and time on the internal resistance of microbial fuel cells. Bioresource Technology, 2010, 101, 3520-3525.	9.6	192
4	Self-sustainable electricity production from algae grown in a microbial fuel cell system. Biomass and Bioenergy, 2015, 82, 87-93.	5.7	176
5	Electricity from landfill leachate using microbial fuel cells: Comparison with a biological aerated filter. Enzyme and Microbial Technology, 2009, 44, 112-119.	3.2	172
6	Waste to real energy: the first MFC powered mobile phone. Physical Chemistry Chemical Physics, 2013, 15, 15312.	2.8	158
7	Pee power urinal " microbial fuel cell technology field trials in the context of sanitation. Environmental Science: Water Research and Technology, 2016, 2, 336-343.	2.4	147
8	Recent advancements in real-world microbial fuel cell applications. Current Opinion in Electrochemistry, 2018, 11, 78-83.	4.8	146
9	A review into the use of ceramics in microbial fuel cells. Bioresource Technology, 2016, 215, 296-303.	9.6	142
10	Energetically autonomous robots: Food for thought. Autonomous Robots, 2006, 21, 187-198.	4.8	122
11	Comprehensive Study on Ceramic Membranes for Low-Cost Microbial Fuel Cells. ChemSusChem, 2016, 9, 88-96.	6.8	111
12	PEE POWER® urinal II " Urinal scale-up with microbial fuel cell scale-down for improved lighting. Journal of Power Sources, 2018, 392, 150-158.	7.8	106
13	Simultaneous electricity generation and microbially-assisted electrosynthesis in ceramic MFCs. Bioelectrochemistry, 2015, 104, 58-64.	4.6	105
14	The overshoot phenomenon as a function of internal resistance in microbial fuel cells. Bioelectrochemistry, 2011, 81, 22-27.	4.6	104
15	Urine transduction to usable energy: A modular MFC approach for smartphone and remote system charging. Applied Energy, 2017, 192, 575-581.	10.1	102
16	MFC-cascade stacks maximise COD reduction and avoid voltage reversal under adverse conditions. Bioresource Technology, 2013, 134, 158-165.	9.6	98
17	Microbial volatile compounds in health and disease conditions. Journal of Breath Research, 2012, 6, 024001.	3.0	96
18	Self-powered, autonomous Biological Oxygen Demand biosensor for online water quality monitoring. Sensors and Actuators B: Chemical, 2017, 244, 815-822.	7.8	96

#	ARTICLE	IF	CITATIONS
19	Miniature microbial fuel cells and stacks for urine utilisation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 492-496.	7.1	86
20	Enhanced MFC power production and struvite recovery by the addition of sea salts to urine. <i>Water Research</i> , 2017, 109, 46-53.	11.3	82
21	The first self-sustainable microbial fuel cell stack. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2278.	2.8	80
22	Electricity generation and struvite recovery from human urine using microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 647-654.	3.2	80
23	Energy accumulation and improved performance in microbial fuel cells. <i>Journal of Power Sources</i> , 2005, 145, 253-256.	7.8	75
24	Photosynthetic cathodes for Microbial Fuel Cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11559-11564.	7.1	72
25	Comparing terracotta and earthenware for multiple functionalities in microbial fuel cells. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1913-1921.	3.4	71
26	Improved power and long term performance of microbial fuel cell with Fe-N-C catalyst in air-breathing cathode. <i>Energy</i> , 2018, 144, 1073-1079.	8.8	71
27	Electricity and disinfectant production from wastewater: Microbial Fuel Cell as a self-powered electrolyser. <i>Scientific Reports</i> , 2016, 6, 25571.	3.3	69
28	Scaling-up of a novel, simplified MFC stack based on a self-stratifying urine column. <i>Biotechnology for Biofuels</i> , 2016, 9, 93.	6.2	67
29	A novel small scale Microbial Fuel Cell design for increased electricity generation and waste water treatment. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4263-4268.	7.1	61
30	Assessing the relationship between concentrations of malodor compounds and odor scores from judges. <i>Journal of the American Dental Association</i> , 2005, 136, 749-757.	1.5	60
31	Water formation at the cathode and sodium recovery using Microbial Fuel Cells (MFCs). <i>Sustainable Energy Technologies and Assessments</i> , 2014, 7, 187-194.	2.7	60
32	Urine-activated origami microbial fuel cells to signal proof of life. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7058-7065.	10.3	59
33	Carbon-Based Air-Breathing Cathodes for Microbial Fuel Cells. <i>Catalysts</i> , 2016, 6, 127.	3.5	58
34	Dynamic evolution of anodic biofilm when maturing under different external resistive loads in microbial fuel cells. <i>Electrochemical perspective. Journal of Power Sources</i> , 2018, 400, 392-401.	7.8	58
35	3D printed components of microbial fuel cells: Towards monolithic microbial fuel cell fabrication using additive layer manufacturing. <i>Sustainable Energy Technologies and Assessments</i> , 2017, 19, 94-101.	2.7	57
36	Investigating a cascade of seven hydraulically connected microbial fuel cells. <i>Bioresource Technology</i> , 2012, 110, 245-250.	9.6	56

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37	Regeneration of the power performance of cathodes affected by biofouling. <i>Applied Energy</i> , 2016, 173, 431-437.	10.1	56
38	Allometric scaling of microbial fuel cells and stacks: The lifeform case for scale-up. <i>Journal of Power Sources</i> , 2017, 356, 365-370.	7.8	55
39	Ceramic Microbial Fuel Cells Stack: power generation in standard and supercapacitive mode. <i>Scientific Reports</i> , 2018, 8, 3281.	3.3	55
40	Microbial Fuel Cell stack performance enhancement through carbon veil anode modification with activated carbon powder. <i>Applied Energy</i> , 2020, 262, 114475.	10.1	54
41	Cathode materials for ceramic based microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14706-14715.	7.1	53
42	Miniaturized Ceramic-Based Microbial Fuel Cell for Efficient Power Generation From Urine and Stack Development. <i>Frontiers in Energy Research</i> , 2018, 6, 84.	2.3	53
43	Microbial fuel cells directly powering a microcomputer. <i>Journal of Power Sources</i> , 2020, 446, 227328.	7.8	53
44	From single MFC to cascade configuration: The relationship between size, hydraulic retention time and power density. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 14, 74-79.	2.7	52
45	Microbial fuel cells and their electrified biofilms. <i>Biofilm</i> , 2021, 3, 100057.	3.8	52
46	Microbial Fuel Cells for Robotics: Energy Autonomy through Artificial Symbiosis. <i>ChemSusChem</i> , 2012, 5, 1020-1026.	6.8	50
47	Electricity and catholyte production from ceramic MFCs treating urine. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1791-1799.	7.1	50
48	Maximising electricity production by controlling the biofilm specific growth rate in microbial fuel cells. <i>Bioresource Technology</i> , 2012, 118, 615-618.	9.6	49
49	Ceramic MFCs with internal cathode producing sufficient power for practical applications. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14627-14631.	7.1	49
50	Investigation of ceramic MFC stacks for urine energy extraction. <i>Bioelectrochemistry</i> , 2018, 123, 19-25.	4.6	46
51	EcoBot-II: An Artificial Agent with a Natural Metabolism. <i>International Journal of Advanced Robotic Systems</i> , 2005, 2, 31.	2.1	45
52	Urine disinfection and in situ pathogen killing using a Microbial Fuel Cell cascade system. <i>PLoS ONE</i> , 2017, 12, e0176475.	2.5	44
53	Microbial fuel cells (MFC) and microalgae; photo microbial fuel cell (PMFC) as complete recycling machines. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2546-2560.	4.9	44
54	Urine in Bioelectrochemical Systems: An Overall Review. <i>ChemElectroChem</i> , 2020, 7, 1312-1331.	3.4	43

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55	Electro-osmotic-based catholyte production by Microbial Fuel Cells for carbon capture. <i>Water Research</i> , 2015, 86, 108-115.	11.3	42
56	Increased power generation in supercapacitive microbial fuel cell stack using Fe N C cathode catalyst. <i>Journal of Power Sources</i> , 2019, 412, 416-424.	7.8	42
57	From the lab to the field: Self-stratifying microbial fuel cells stacks directly powering lights. <i>Applied Energy</i> , 2020, 277, 115514.	10.1	42
58	Artificial neural network simulating microbial fuel cells with different membrane materials and electrode configurations. <i>Journal of Power Sources</i> , 2019, 436, 226832.	7.8	41
59	Long-term bio-power of ceramic microbial fuel cells in individual and stacked configurations. <i>Bioelectrochemistry</i> , 2020, 133, 107459.	4.6	41
60	Micro-porous layer (MPL)-based anode for microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21811-21818.	7.1	40
61	Self-stratifying microbial fuel cell: The importance of the cathode electrode immersion height. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4524-4532.	7.1	40
62	Development of efficient electroactive biofilm in urine-fed microbial fuel cell cascades for bioelectricity generation. <i>Journal of Environmental Management</i> , 2020, 258, 109992.	7.8	39
63	Self-stratified and self-powered micro-supercapacitor integrated into a microbial fuel cell operating in human urine. <i>Electrochimica Acta</i> , 2019, 307, 241-252.	5.2	38
64	Dynamic electrical reconfiguration for improved capacitor charging in microbial fuel cell stacks. <i>Journal of Power Sources</i> , 2014, 272, 34-38.	7.8	36
65	Scalability and stacking of self-stratifying microbial fuel cells treating urine. <i>Bioelectrochemistry</i> , 2020, 133, 107491.	4.6	31
66	Stability and reliability of anodic biofilms under different feedstock conditions: Towards microbial fuel cell sensors. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 43-50.	4.2	30
67	Autonomous Energy Harvesting and Prevention of Cell Reversal in MFC Stacks. <i>Journal of the Electrochemical Society</i> , 2017, 164, H3047-H3051.	2.9	30
68	Microbial fuel cell scale-up options: Performance evaluation of membrane (c-MFC) and membrane-less (s-MFC) systems under different feeding regimes. <i>Journal of Power Sources</i> , 2022, 520, 230875.	7.8	30
69	Artificial Metabolism: Towards True Energetic Autonomy in Artificial Life. <i>Lecture Notes in Computer Science</i> , 2003, , 792-799.	1.3	29
70	Effect of the ceramic membrane properties on the microbial fuel cell power output and catholyte generation. <i>Journal of Power Sources</i> , 2019, 429, 30-37.	7.8	27
71	Artificial gills for robots: MFC behaviour in water. <i>Bioinspiration and Biomimetics</i> , 2007, 2, S83-S93.	2.9	26
72	Binder materials for the cathodes applied to self-stratifying membraneless microbial fuel cell. <i>Bioelectrochemistry</i> , 2018, 123, 119-124.	4.6	26

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73	Fade to Green: A Biodegradable Stack of Microbial Fuel Cells. <i>ChemSusChem</i> , 2015, 8, 2705-2712.	6.8	25
74	A Comprehensive Study of Custom-Made Ceramic Separators for Microbial Fuel Cells: Towards a Living Bricks. <i>Energies</i> , 2019, 12, 4071.	3.1	23
75	Resilience and limitations of MFC anodic community when exposed to antibacterial agents. <i>Bioelectrochemistry</i> , 2020, 134, 107500.	4.6	23
76	Scalability of self-stratifying microbial fuel cell: Towards height miniaturisation. <i>Bioelectrochemistry</i> , 2019, 127, 68-75.	4.6	22
77	High Performance, Totally Flexible, Tubular Microbial Fuel Cell. <i>ChemElectroChem</i> , 2014, 1, 1994-1999.	3.4	21
78	Multi-functional microbial fuel cells for power, treatment and electroosmotic purification of urine. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2098-2106.	3.2	21
79	Small Scale Microbial Fuel Cells and Different Ways of Reporting Output. <i>ECS Transactions</i> , 2010, 28, 1-9.	0.5	20
80	A new method for urine electrofiltration and long term power enhancement using surface modified anodes with activated carbon in ceramic microbial fuel cells. <i>Electrochimica Acta</i> , 2020, 353, 136388.	5.2	20
81	Towards monolithically printed Mfcs: Development of a 3d-printable membrane electrode assembly (mea). <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4450-4462.	7.1	19
82	Impact of Inoculum Type on the Microbial Community and Power Performance of Urine-Fed Microbial Fuel Cells. <i>Microorganisms</i> , 2020, 8, 1921.	3.6	18
83	Novel Analytical Microbial Fuel Cell Design for Rapid in Situ Optimisation of Dilution Rate and Substrate Supply Rate, by Flow, Volume Control and Anode Placement. <i>Energies</i> , 2018, 11, 2377.	3.1	17
84	Developing 3D-Printable Cathode Electrode for Monolithically Printed Microbial Fuel Cells (MFCs). <i>Molecules</i> , 2020, 25, 3635.	3.8	17
85	Electroosmotically generated disinfectant from urine as a by-product of electricity in microbial fuel cell for the inactivation of pathogenic species. <i>Scientific Reports</i> , 2020, 10, 5533.	3.3	17
86	Microbial Fuel Cell-driven caustic potash production from wastewater for carbon sequestration. <i>Bioresource Technology</i> , 2016, 215, 285-289.	9.6	16
87	Prevention and removal of membrane and separator biofouling in bioelectrochemical systems: a comprehensive review. <i>IScience</i> , 2022, 25, 104510.	4.1	16
88	Tongue Microbiota and Malodour. <i>Microbial Ecology in Health and Disease</i> , 1999, 11, 226-233.	3.5	14
89	Cellular non-linear network model of microbial fuel cell. <i>BioSystems</i> , 2017, 156-157, 53-62.	2.0	13
90	Towards implementation of cellular automata in Microbial Fuel Cells. <i>PLoS ONE</i> , 2017, 12, e0177528.	2.5	13

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91	Modelling oral malodour from a tongue biofilm. <i>Journal of Breath Research</i> , 2008, 2, 017003.	3.0	12
92	Fate of three bioluminescent pathogenic bacteria fed through a cascade of urine microbial fuel cells. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 587-599.	3.0	12
93	Scaling up self-stratifying supercapacitive microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25240-25248.	7.1	12
94	Modelling the effects of pH on tongue biofilm using a sorbarod biofilm perfusion system. <i>Journal of Breath Research</i> , 2010, 4, 017107.	3.0	11
95	Removal of Hepatitis B virus surface HBsAg and core HBcAg antigens using microbial fuel cells producing electricity from human urine. <i>Scientific Reports</i> , 2019, 9, 11787.	3.3	11
96	Living Architecture: Toward Energy Generating Buildings Powered by Microbial Fuel Cells. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	11
97	Microbial fuel cell compared to a chemostat. <i>Chemosphere</i> , 2022, 296, 133967.	8.2	11
98	Gelatin as a promising printable feedstock for microbial fuel cells (MFC). <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1783-1790.	7.1	10
99	Air-breathing cathode self-powered supercapacitive microbial fuel cell with human urine as electrolyte. <i>Electrochimica Acta</i> , 2020, 353, 136530.	5.2	10
100	Review: <i>In vitro</i> biofilm models for studying oral malodour. <i>Flavour and Fragrance Journal</i> , 2013, 28, 212-222.	2.6	9
101	Analysis of microbial fuel cell operation in acidic conditions using the flocculating agent ferric chloride. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 138-143.	3.2	9
102	Microbial fuel cells in the house: A study on real household wastewater samples for treatment and power. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101618.	2.7	8
103	<i>Physarum polycephalum</i> : Towards a biological controller. <i>BioSystems</i> , 2015, 127, 42-46.	2.0	7
104	Electrosynthesis, modulation, and self-driven electroseparation in microbial fuel cells. <i>IScience</i> , 2021, 24, 102805.	4.1	6
105	Electronic faucet powered by low cost ceramic microbial fuel cells treating urine. <i>Journal of Power Sources</i> , 2021, 506, 230004.	7.8	6
106	Effect of simple interventions on the performance of a miniature MFC fed with fresh urine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33594-33600.	7.1	5
107	Discovery, development and exploitation of steady-state biofilms. <i>Journal of Breath Research</i> , 2020, 14, 044001.	3.0	4
108	Microbial Fuel Cell Based Thermosensor for Robotic Applications. <i>Frontiers in Robotics and AI</i> , 2021, 8, 558953.	3.2	4

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109	A clinical study on the antimicrobial and breath-freshening effect of zinc-containing lozenge formulations. <i>Microbial Ecology in Health and Disease</i> , 2007, 19, 164-170.	3.5	3
110	Development of a Bio-Digital Interface Powered by Microbial Fuel Cells. <i>Sustainability</i> , 2022, 14, 1735.	3.2	3
111	Integration of Cost-Efficient Carbon Electrodes into the Development of Microbial Fuel Cells. <i>Carbon Materials</i> , 2022, , 43-57.	1.2	1
112	Slime Mould Controller for Microbial Fuel Cells. <i>Emergence, Complexity and Computation</i> , 2016, , 285-298.	0.3	0
113	Microbial Fuel Cells, Concept, and Applications. , 2022, , 875-909.		0
114	Microbial Fuel Cells, Concept, and Applications. , 2020, , 1-35.		0
115	Phototrophic microbial fuel cells. , 2022, , 699-727.		0