

John G Anderson

List of Publications by Year in descending order

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120
papers

4,702
citations

87888

38
h-index

110387

64
g-index

122
all docs

122
docs citations

122
times ranked

3118
citing authors

#	ARTICLE	IF	CITATIONS
1	Inactivation of Bacterial Pathogens following Exposure to Light from a 405-Nanometer Light-Emitting Diode Array. <i>Applied and Environmental Microbiology</i> , 2009, 75, 1932-1937.	3.1	324
2	Pulsed-Light Inactivation of Food-Related Microorganisms. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1312-1315.	3.1	222
3	Inactivation of food-borne enteropathogenic bacteria and spoilage fungi using pulsed-light. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 83-88.	1.3	170
4	Pulsed ultra-violet inactivation spectrum of <i>Escherichia coli</i> . <i>Water Research</i> , 2005, 39, 2921-2925.	11.3	170
5	The role of oxygen in the visible-light inactivation of <i>Staphylococcus aureus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008, 92, 180-184.	3.8	139
6	Micro-organisms attached to marine sand grains. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1968, 48, 161-175.	0.8	125
7	The Production of Conidiophores and Conidia by Newly Germinated Conidia of <i>Aspergillus niger</i> (Microcycle Conidiation). <i>Journal of General Microbiology</i> , 1971, 69, 185-197.	2.3	119
8	High-intensity narrow-spectrum light inactivation and wavelength sensitivity of <i>Staphylococcus aureus</i> . <i>FEMS Microbiology Letters</i> , 2008, 285, 227-232.	1.8	118
9	Bactericidal Effects of 405-nm Light Exposure Demonstrated by Inactivation of <i>Escherichia</i> , <i>Salmonella</i> , <i>Shigella</i> , <i>Listeria</i> , and <i>Mycobacterium</i> Species in Liquid Suspensions and on Exposed Surfaces. <i>Scientific World Journal</i> , The, 2012, 2012, 1-8.	2.1	116
10	Light inactivation of food-related pathogenic bacteria using a pulsed power source. <i>Letters in Applied Microbiology</i> , 1998, 27, 67-70.	2.2	114
11	Role of mycotoxins in human and animal nutrition and health. <i>Natural Toxins</i> , 1995, 3, 187-192.	1.0	113
12	Putative Virulence Factor Expression by Clinical and Food Isolates of <i>Bacillus</i> spp. after Growth in Reconstituted Infant Milk Formulae. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3873-3881.	3.1	106
13	Lethal effects of high-intensity violet 405-nm light on <i>Saccharomyces cerevisiae</i> , <i>Candida albicans</i> , and on dormant and germinating spores of <i>Aspergillus niger</i> . <i>Fungal Biology</i> , 2013, 117, 519-527.	2.5	99
14	Cytotoxic responses to 405nm light exposure in mammalian and bacterial cells: Involvement of reactive oxygen species. <i>Toxicology in Vitro</i> , 2016, 33, 54-62.	2.4	97
15	Micro-organisms attached to Marine and Freshwater Sand Grains. <i>Nature</i> , 1966, 212, 1059-1060.	27.8	94
16	Sporicidal Effects of High-Intensity 405-nm Visible Light on Endospore-Forming Bacteria. <i>Photochemistry and Photobiology</i> , 2013, 89, 120-126.	2.5	77
17	High-Intensity 405-nm Light Inactivation of <i>Listeria monocytogenes</i> . <i>Photochemistry and Photobiology</i> , 2012, 88, 1280-1286.	2.5	70
18	Pulsed electric field inactivation of diarrhoeagenic <i>Bacillus cereus</i> through irreversible electroporation. <i>Letters in Applied Microbiology</i> , 2000, 31, 110-114.	2.2	68

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19	Plasma inactivation of food-related microorganisms in liquids. <i>Radiation Physics and Chemistry</i> , 2002, 65, 507-513.	2.8	68
20	Inactivation of <i>Mycobacterium paratuberculosis</i> by Pulsed Electric Fields. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2833-2836.	3.1	67
21	Review of the Comparative Susceptibility of Microbial Species to Photoinactivation Using 380–480 nm Violet-Blue Light. <i>Photochemistry and Photobiology</i> , 2018, 94, 445-458.	2.5	67
22	A study of the microbial content of the domestic kitchen. <i>International Journal of Environmental Health Research</i> , 1995, 5, 109-122.	2.7	66
23	Pulsed-Plasma Gas-Discharge Inactivation of Microbial Pathogens in Chilled Poultry Wash Water. <i>Journal of Food Protection</i> , 2007, 70, 2805-2810.	1.7	62
24	Effects of Above-Optimum Growth Temperature and Cell Morphology on Thermotolerance of <i>Listeria monocytogenes</i> Cells Suspended in Bovine Milk. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2065-2071.	3.1	62
25	Inactivation of pathogenic and spoilage microorganisms in a test liquid using pulsed electric fields. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 144-149.	1.3	61
26	Photoinactivation of Bacteria Attached to Glass and Acrylic Surfaces by 405-nm Light: Potential Application for Biofilm Decontamination. <i>Photochemistry and Photobiology</i> , 2013, 89, 927-935.	2.5	61
27	The effects of elevated temperatures on spore swelling and germination in <i>Aspergillus niger</i> . <i>Canadian Journal of Microbiology</i> , 1972, 18, 289-297.	1.7	60
28	Prediction of Toxigenic Fungal Growth in Buildings by Using a Novel Modelling System. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4814-4821.	3.1	60
29	Inactivation of <i>Campylobacter jejuni</i> by Exposure to High-Intensity 405-nm Visible Light. <i>Foodborne Pathogens and Disease</i> , 2010, 7, 1211-1216.	1.8	57
30	Clinical studies of the High-Intensity Narrow-Spectrum light Environmental Decontamination System (HINS-light EDS), for continuous disinfection in the burn unit inpatient and outpatient settings. <i>Burns</i> , 2012, 38, 69-76.	1.9	56
31	The effects of 405 nm light on bacterial membrane integrity determined by salt and bile tolerance assays, leakage of UV-absorbing material and SYTOX green labelling. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1680-1688.	1.8	53
32	Assessment of the potential for resistance to antimicrobial violet-blue light in <i>Staphylococcus aureus</i> . <i>Antimicrobial Resistance and Infection Control</i> , 2017, 6, 100.	4.1	49
33	Enhanced inactivation of <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> by exposure to 405nm light under sub-lethal temperature, salt and acid stress conditions. <i>International Journal of Food Microbiology</i> , 2014, 170, 91-98.	4.7	48
34	New Proof-of-Concept in Viral Inactivation: Virucidal Efficacy of 405-nm Light Against Feline Calicivirus as a Model for Norovirus Decontamination. <i>Food and Environmental Virology</i> , 2017, 9, 159-167.	3.4	48
35	Increased cytotoxicity of food-borne mycotoxins toward human cell lines in vitro via enhanced cytochrome p450 expression using the MTT bioassay. <i>Mycopathologia</i> , 1999, 148, 97-102.	3.1	46
36	Transient electrical field across cellular membranes: pulsed electric field treatment of microbial cells. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 596-603.	2.8	44

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37	Bactericidal Effect of Corona Discharges in Atmospheric Air. IEEE Transactions on Plasma Science, 2012, 40, 2322-2333.	1.3	44
38	Synchronous initiation and maturation of <i>Aspergillus niger</i> conidiophores in culture. Transactions of the British Mycological Society, 1971, 56, 9-IN1.	0.6	43
39	Comparison of the effectiveness of biphasic and monophasic rectangular pulses for the inactivation of micro-organisms using pulsed electric fields. IEEE Transactions on Plasma Science, 2002, 30, 1525-1531.	1.3	40
40	Effect of 405-nm high-intensity narrow-spectrum light on fibroblast-populated collagen lattices: an in vitro model of wound healing. Journal of Biomedical Optics, 2011, 16, 048003.	2.6	38
41	Virulent Rough Filaments of <i>Listeria monocytogenes</i> from Clinical and Food Samples Secreting Wild-Type Levels of Cell-Free p60 Protein. Journal of Clinical Microbiology, 2000, 38, 2643-2648.	3.9	38
42	Effect of Low-Osmolality Nutrient Media on Growth and Culturability of <i>Campylobacter</i> Species. Applied and Environmental Microbiology, 1998, 64, 4643-4649.	3.1	37
43	Pulsed-Plasma Disinfection of Water Containing <i>Escherichia coli</i> . Japanese Journal of Applied Physics, 2007, 46, 1137-1141.	1.5	35
44	Mitochondrial activity during citric acid production by <i>Aspergillus niger</i> . Transactions of the British Mycological Society, 1972, 59, 51-61.	0.6	33
45	The influence of pulse duration on the inactivation of bacteria using monopolar and bipolar profile pulsed electric fields. IEEE Transactions on Plasma Science, 2005, 33, 1287-1293.	1.3	33
46	Cytotoxic fungal spores in the indoor atmosphere of the damp domestic environment. FEMS Microbiology Letters, 1992, 100, 337-343.	1.8	31
47	Inactivation of <i>Streptomyces</i> phage ϕ C31 by 405 nm light. Bacteriophage, 2014, 4, e32129.	1.9	30
48	Pulsed UV-light inactivation of poliovirus and adenovirus. Letters in Applied Microbiology, 2007, 45, 564-567.	2.2	29
49	Cytotoxic fungal spores in the indoor atmosphere of the damp domestic environment. FEMS Microbiology Letters, 1992, 100, 337-343.	1.8	29
50	Evidence of lethal and sublethal injury in food-borne bacterial pathogens exposed to high-intensity pulsed-plasma gas discharges. Letters in Applied Microbiology, 2007, 46, 071105095418001-???	2.2	28
51	Use of the disc fermenter to examine production of citric acid by <i>Aspergillus niger</i> . Biotechnology Letters, 1980, 2, 99-104.	2.2	27
52	Use of a fluorescent viability stain to assess lethal and sublethal injury in food-borne bacteria exposed to high-intensity pulsed electric fields. Letters in Applied Microbiology, 2004, 39, 246-251.	2.2	27
53	Differential sensitivity of osteoblasts and bacterial pathogens to 405-nm light highlighting potential for decontamination applications in orthopedic surgery. Journal of Biomedical Optics, 2014, 19, 105001.	2.6	26
54	Diarrhoeal enterotoxin production by psychrotrophic <i>Bacillus cereus</i> present in reconstituted milk-based infant formulae (MIF). Letters in Applied Microbiology, 1998, 26, 161-165.	2.2	25

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55	The thermo-mechanical performance of glass-fibre reinforced polyamide 66 during glycolâ€“water hydrolysis conditioning. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 820-826.	7.6	25
56	Comparative Sensitivity of <i>Trichophyton</i> and <i>Aspergillus Conidia</i> to Inactivation by Violet-Blue Light Exposure. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 36-41.	2.0	25
57	A New Proof of Concept in Bacterial Reduction: Antimicrobial Action of Violet-Blue Light (405â€“nm) in <i>Ex Vivo</i> Stored Plasma. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-11.	3.3	23
58	Bacteria on intertidal sand grains. <i>Hydrobiologia</i> , 1969, 33, 33-46.	2.0	22
59	Pulsed electric field inactivation of spoilage microorganisms in alcoholic beverages. <i>Proceedings of the IEEE</i> , 2004, 92, 1138-1143.	21.3	22
60	Pulsed Electric Field Treatment of Microalgae: Inactivation Tendencies and Energy Consumption. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 3191-3196.	1.3	22
61	Fluorescence detection of hydroxyl radicals in water produced by atmospheric pulsed discharges. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1856-1865.	2.9	22
62	A comparison study of the degradative effects and safety implications of UVC and 405Ånm germicidal light sources for endoscope storage. <i>Polymer Degradation and Stability</i> , 2016, 133, 249-254.	5.8	22
63	Responses of <i>Corophium volutator</i> to sediment sulphide. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1981, 61, 739-748.	0.8	21
64	Synergistic efficacy of 405Ånm light and chlorinated disinfectants for the enhanced decontamination of <i>Clostridium difficile</i> spores. <i>Anaerobe</i> , 2016, 37, 72-77.	2.1	21
65	Development of an integrated solid-state generator for light inactivation of food-related pathogenic bacteria. <i>Measurement Science and Technology</i> , 2003, 14, N26-N32.	2.6	20
66	Inactivation of micro-organisms isolated from infected lower limb arthroplasties using high-intensity narrow-spectrum (HINS) light. <i>Bone and Joint Journal</i> , 2015, 97-B, 283-288.	4.4	20
67	Microenvironments in marine sediments. <i>Proceedings of the Royal Society of Edinburgh Section B Biological Sciences</i> , 1978, 76, 1-16.	0.2	19
68	Changes in Carbon Catabolic Pathways during Synchronous Development of Conidiophores of <i>Aspergillus niger</i> . <i>Journal of General Microbiology</i> , 1972, 71, 495-504.	2.3	18
69	The composting of tree bark in small reactorsâ€“adiabatic and fixed-temperature experiments. <i>Biological Wastes</i> , 1990, 31, 175-185.	0.2	18
70	Quantifying bacterial transfer from patients to staff during burns dressing and bed changes: Implications for infection control. <i>Burns</i> , 2013, 39, 220-228.	1.9	18
71	The composting of tree bark in small reactorsâ€“self-heating experiments. <i>Biological Wastes</i> , 1990, 31, 145-161.	0.2	17
72	Pulsed electric field treatment of <i>Saccharomyces cerevisiae</i> using different waveforms. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1841-1848.	2.9	17

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73	Conidiation and esterase synthesis in <i>Aspergillus niger</i> . Transactions of the British Mycological Society, 1972, 59, 63-116.	0.6	15
74	Airborne bacterial dispersal during and after dressing and bed changes on burns patients. Burns, 2015, 41, 39-48.	1.9	15
75	Control and autolysis of a spherical cell form of <i>Aspergillus niger</i> . Transactions of the British Mycological Society, 1976, 67, 27-31.	0.6	14
76	Microcycle conidiation in <i>Paecilomyces varioti</i> . FEMS Microbiology Letters, 1978, 3, 57-60.	1.8	14
77	Induction of conductance and capacitance changes by food-borne fungi. Food Microbiology, 1989, 6, 231-244.	4.2	13
78	Bacteriological Quality of Infant Milk Formulae Examined under a Variety of Preparation and Storage Conditions. Journal of Food Protection, 1997, 60, 1089-1094.	1.7	13
79	Variability in gas production by <i>Escherichia coli</i> in enrichment media and its relationship to pH. Applied and Environmental Microbiology, 1980, 40, 309-312.	3.1	13
80	Cultivation of filamentous fungi in the disc fermenter. Biotechnology Letters, 1979, 1, 269-274.	2.2	12
81	The incidence of moulds within 525 dwellings in the United Kingdom. International Journal of Environmental Studies, 1989, 35, 105-112.	1.6	12
82	The bacteriological quality of hospital-prepared infant feeds. Journal of Hospital Infection, 1997, 35, 259-267.	2.9	12
83	Growth and enterotoxin production by diarrhoeagenic <i>Bacillus cereus</i> in dietary supplements prepared for hospitalized HIV patients. Journal of Hospital Infection, 1998, 38, 139-146.	2.9	12
84	Photoinactivation and Photoreactivation Responses by Bacterial Pathogens after Exposure to Pulsed UV-Light. , 2008, , .		12
85	Complete Inactivation of Blood Borne Pathogen <i>Trypanosoma cruzi</i> in Stored Human Platelet Concentrates and Plasma Treated With 405 nm Violet-Blue Light. Frontiers in Medicine, 2020, 7, 617373.	2.6	12
86	Violet-blue 405-nm Light-based Photoinactivation for Pathogen Reduction of Human Plasma Provides Broad Antibacterial Efficacy Without Visible Degradation of Plasma Proteins. Photochemistry and Photobiology, 2022, 98, 504-512.	2.5	12
87	Effectiveness of Cleaning and Disinfection Procedures on the Removal of Enterotoxigenic <i>Bacillus cereus</i> From Infant Feeding Bottles. Journal of Food Protection, 1998, 61, 196-200.	1.7	11
88	Cellular morphology of rough forms of <i>Listeria monocytogenes</i> isolated from clinical and food samples. Letters in Applied Microbiology, 2000, 31, 319-322.	2.2	11
89	Exposure of 3T3 mouse Fibroblasts and Collagen to High Intensity Blue Light. IFMBE Proceedings, 2009, , 1352-1355.	0.3	11
90	TiO ₂ -Coated Electrodes for Pulsed Electric Field Treatment of Microorganisms. IEEE Transactions on Plasma Science, 2016, 44, 2121-2128.	1.3	11

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91	Continuous monitoring of aerial bioburden within intensive care isolation rooms and identification of high-risk activities. <i>Journal of Hospital Infection</i> , 2019, 103, 185-192.	2.9	10
92	Non-ionizing 405 nm Light as a Potential Bactericidal Technology for Platelet Safety: Evaluation of in vitro Bacterial Inactivation and in vivo Platelet Recovery in Severe Combined Immunodeficient Mice. <i>Frontiers in Medicine</i> , 2019, 6, 331.	2.6	10
93	Gas production by <i>Escherichia coli</i> in selective lactose fermentation media. <i>FEMS Microbiology Letters</i> , 1980, 8, 17-21.	1.8	7
94	Synergistic inhibition of <i>Escherichia coli</i> growth and gas production in selective media. <i>FEMS Microbiology Letters</i> , 1980, 8, 215-219.	1.8	7
95	Pulsed electric field as a potential new method for microbial inactivation in scaffold materials for tissue engineering: The effect on collagen as a scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 844-851.	4.0	7
96	Steady-State Corona Discharges in Atmospheric Air for Cleaning and Decontamination. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2871-2878.	1.3	7
97	Growth of <i>Candida utilis</i> on enzymatically hydrolysed cassava. <i>Biotechnology Letters</i> , 1980, 2, 35-40.	2.2	6
98	Production of penicillin by immobilized films of <i>Penicillium chrysogenum</i> . <i>Biotechnology Letters</i> , 1987, 9, 471-474.	2.2	6
99	Development and evaluation of a medium for the monitoring of food-borne moulds by capacitance changes. <i>Food Microbiology</i> , 1990, 7, 129-145.	4.2	6
100	Responses of a benthic marine invertebrate to ^{137}Cs -irradiated sediment. <i>Nature</i> , 1977, 270, 595-596.	27.8	5
101	Decontamination of collagen biomatrices with combined pulsed electric field and nisin treatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 96B, 287-293.	3.4	5
102	Inactivation of microorganisms within collagen gel biomatrices using pulsed electric field treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 507-515.	3.6	5
103	Influence of temperature, media and preservative on spore swelling of <i>Aspergillus niger</i> and <i>Trichoderma viride</i> . <i>Transactions of the British Mycological Society</i> , 1972, 59, 115-113.	0.6	4
104	Effect of different treatments on the dielectric behaviour of microorganisms. , 0, , .		4
105	Pulsed electric field treatment as a potential method for microbial inactivation in scaffold materials for tissue engineering: the inactivation of bacteria in collagen gel. <i>Journal of Applied Microbiology</i> , 2008, 105, 963-969.	3.1	4
106	Interrelationships Between Chlorophylls, Carbon, Nitrogen and Heterotrophic Bacteria in an Intertidal Sediment Transect. <i>Marine Ecology - Progress Series</i> , 1981, 6, 277-283.	1.9	4
107	Visible 405 nm Violet-Blue Light Successfully Inactivates HIV-1 in Human Plasma. <i>Pathogens</i> , 2022, 11, 778.	2.8	4
108	Inconsistent results with the <i>Escherichia coli</i> confirmatory medium lactose ricinoleate broth. <i>FEMS Microbiology Letters</i> , 1979, 5, 53-56.	1.8	3

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109	Processing of model dilute carbohydrate wastes using <i>Aspergillus niger</i> in disc fermenters. <i>Biotechnology Letters</i> , 1981, 3, 451-454.	2.2	3
110	Production of γ -malic acid by <i>Paecilomyces varioti</i> . <i>Biotechnology Letters</i> , 1987, 9, 393-398.	2.2	3
111	Pulsed electric field assisted treatment of microorganisms for lysis. , 2013, , .		3
112	Efficacy of antimicrobial 405 nm blue-light for inactivation of airborne bacteria. , 2018, , .		3
113	Forces acting on biological cells in external electrical fields. , 2006, , .		2
114	Modes of arrival and establishment of microfungi. <i>Journal of Applied Bacteriology</i> , 1992, 73, 69S-79S.	1.1	1
115	Comparative cytotoxicity of fumonisin B1 in two cell lines derived from normal human bronchial epithelial cells using four distinct bioassay techniques. <i>Mycotoxin Research</i> , 1999, 15, 81-90.	2.3	1
116	Oxidation and Biodecontamination Effects of Impulsive Discharges in Atmospheric Air. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2145-2155.	1.3	1
117	Pulsed periodic corona discharges for biological decontamination. , 2011, , .		0
118	Impulsive streamer discharges in atmospheric air for cleaning and decontamination. , 2015, , .		0
119	Airborne Decontamination of an Intensive Care Isolation Room using 405 nm Antimicrobial Light Technology. <i>Access Microbiology</i> , 2020, 2, .	0.5	0
120	Inactivation of Problematic Micro-organisms in Collagen Based Media by Pulsed Electric Field Treatment (PEF). <i>IFMBE Proceedings</i> , 2009, , 1320-1324.	0.3	0