## Kathryn A Whitehead

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microbial fuel cells: An overview of current technology. Renewable and Sustainable Energy Reviews, 2019, 101, 60-81.	16.4	473
2	Retention of microbial cells in substratum surface features of micrometer and sub-micrometer dimensions. Colloids and Surfaces B: Biointerfaces, 2005, 41, 129-138.	5.0	263
3	The Effect of Surface Topography on the Retention of Microorganisms. Food and Bioproducts Processing, 2006, 84, 253-259.	3.6	184
4	Inactivation of Escherichia coli on immobilized TiO2 using fluorescent light. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 202, 92-98.	3.9	161
5	Comparison of the tribological and antimicrobial properties of CrN/Ag, ZrN/Ag, TiN/Ag, and TiN/Cu nanocomposite coatings. Surface and Coatings Technology, 2010, 205, 1606-1610.	4.8	150
6	Use of the atomic force microscope to determine the effect of substratum surface topography on the ease of bacterial removal. Colloids and Surfaces B: Biointerfaces, 2006, 51, 44-53.	5.0	121
7	A study of the antimicrobial and tribological properties of TiN/Ag nanocomposite coatings. Surface and Coatings Technology, 2009, 204, 1137-1140.	4.8	116
8	Antimicrobial Efficacy and Synergy of Metal Ions against Enterococcus faecium, Klebsiella pneumoniae and Acinetobacter baumannii in Planktonic and Biofilm Phenotypes. Scientific Reports, 2017, 7, 5911.	3.3	111
9	Production of hybrid macro/micro/nano surface structures on Ti6Al4V surfaces by picosecond laser surface texturing and their antifouling characteristics. Colloids and Surfaces B: Biointerfaces, 2017, 160, 688-696.	5.0	68
10	Antimicrobial strategies to reduce polymer biomaterial infections and their economic implications and considerations. International Biodeterioration and Biodegradation, 2019, 136, 1-14.	3.9	57
11	The detection of food soils and cells on stainless steel using industrial methods: UV illumination and ATP bioluminescence. International Journal of Food Microbiology, 2008, 127, 121-128.	4.7	54
12	Formation, architecture and functionality of microbial biofilms in the food industry. Current Opinion in Food Science, 2015, 2, 84-91.	8.0	53
13	Antimicrobial activity of graphene oxide-metal hybrids. International Biodeterioration and Biodegradation, 2017, 123, 182-190.	3.9	49
14	The effect of surface properties and application method on the retention of Pseudomonas aeruginosa on uncoated and titanium-coated stainless steel. International Biodeterioration and Biodegradation, 2007, 60, 74-80.	3.9	47
15	The effect of dentifrice abrasion on denture topography and the subsequent retention of microorganisms on abradedÂsurfaces. Journal of Prosthetic Dentistry, 2014, 112, 1513-1522.	2.8	46
16	Picosecond laser treatment production of hierarchical structured stainless steel to reduce bacterial fouling. Food and Bioproducts Processing, 2018, 109, 29-40.	3.6	43
17	Chapter 8 Microbial Retention on Open Food Contact Surfaces and Implications for Food Contamination. Advances in Applied Microbiology, 2008, 64, 223-246.	2.4	41
18	The retention of bacteria on hygienic surfaces presenting scratches of microbial dimensions. Letters in Applied Microbiology, 2010, 50, 258-263.	2.2	41

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19	Photoinactivation of Escherichia coli on acrylic paint formulations using fluorescent light. Dyes and Pigments, 2010, 86, 56-62.	3.7	38
20	Exploring the electrochemical performance of graphite and graphene paste electrodes composed of varying lateral flake sizes. Physical Chemistry Chemical Physics, 2018, 20, 20010-20022.	2.8	35
21	The production of surfaces of defined topography and chemistry for microbial retention studies, using ion beam sputtering technology. International Biodeterioration and Biodegradation, 2004, 54, 143-151.	3.9	34
22	The antimicrobial effect of metal substrates on food pathogens. Food and Bioproducts Processing, 2019, 113, 68-76.	3.6	32
23	Effect of surface conditioning with cellular extracts on Escherichia coli adhesion and initial biofilm formation. Food and Bioproducts Processing, 2017, 104, 1-12.	3.6	31
24	Assessment of Organic Materials and Microbial Components on Hygienic Surfaces. Food and Bioproducts Processing, 2006, 84, 260-264.	3.6	30
25	Molybdenum doped titanium dioxide photocatalytic coatings for use as hygienic surfaces: the effect of soiling on antimicrobial activity. Biofouling, 2014, 30, 911-919.	2.2	30
26	The detection and influence of food soils on microorganisms on stainless steel using scanning electron microscopy and epifluorescence microscopy. International Journal of Food Microbiology, 2010, 141, S125-S133.	4.7	29
27	Initial adhesion of Listeria monocytogenes to solid surfaces under liquid flow. International Journal of Food Microbiology, 2012, 152, 181-188.	4.7	29
28	The use of physicochemical methods to detect organic food soils on stainless steel surfaces. Biofouling, 2009, 25, 749-756.	2.2	28
29	Quantifying the pattern of microbial cell dispersion, density and clustering on surfaces of differing chemistries and topographies using multifractal analysis. Journal of Microbiological Methods, 2014, 104, 101-108.	1.6	27
30	Thieno[2,3-b]pyridine derivatives are potent anti-platelet drugs, inhibiting platelet activation, aggregation and showing synergy with aspirin. European Journal of Medicinal Chemistry, 2018, 143, 1997-2004.	5.5	27
31	Non-thermal plasma-based inactivation of bacteria in water using a microfluidic reactor. Water Research, 2021, 201, 117321.	11.3	27
32	Exploring the putative interactions between chronic kidney disease and chronic periodontitis. Critical Reviews in Microbiology, 2020, 46, 61-77.	6.1	24
33	A critical evaluation of sampling methods used for assessing microorganisms on surfaces. Food and Bioproducts Processing, 2010, 88, 335-340.	3.6	23
34	Titanium-coating of stainless steel as an aid to improved cleanability. International Journal of Food Microbiology, 2010, 141, S134-S139.	4.7	23
35	One-pot bioinspired synthesis of fluorescent metal chalcogenide and carbon quantum dots: Applications and potential biotoxicity. Colloids and Surfaces B: Biointerfaces, 2021, 200, 111578.	5.0	23
36	Use of the Atomic Force Microscope to Determine the Strength of Bacterial Attachment to Grooved Surface Features. Journal of Adhesion Science and Technology, 2010, 24, 2271-2285.	2.6	22

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37	The detection of food soils on stainless steel using energy dispersive X-ray and Fourier transform infrared spectroscopy. Biofouling, 2011, 27, 907-917.	2.2	22
38	Antimicrobial Activity of Nanocomposite Zirconium Nitride/Silver Coatings to Combat External Bone Fixation Pin Infections. International Journal of Artificial Organs, 2012, 35, 817-825.	1.4	22
39	The effect of surface properties of polycrystalline, single phase metal coatings on bacterial retention. International Journal of Food Microbiology, 2015, 197, 92-97.	4.7	22
40	Polyamine biomarkers as indicators of human disease. Biomarkers, 2021, 26, 77-94.	1.9	22
41	The Effect of Surface Hydrophobicity on the Attachment of Fungal Conidia to Substrates of Polyvinyl Acetate and Polyvinyl Alcohol. Journal of Polymers and the Environment, 2020, 28, 1450-1464.	5.0	20
42	A comparative study of fine polished stainless steel, TiN and TiN/Ag surfaces: Adhesion and attachment strength of Listeria monocytogenes as well as anti-listerial effect. Colloids and Surfaces B: Biointerfaces, 2013, 109, 190-196.	5.0	18
43	Photocatalytic TiO2 and Doped TiO2 Coatings to Improve the Hygiene of Surfaces Used in Food and Beverage Processing—A Study of the Physical and Chemical Resistance of the Coatings. Coatings, 2014, 4, 433-449.	2.6	17
44	The effects of blood conditioning films on the antimicrobial and retention properties of zirconium-nitride silver surfaces. Colloids and Surfaces B: Biointerfaces, 2019, 173, 303-311.	5.0	17
45	Differential fluorescent staining of Listeria monocytogenes and a whey food soil for quantitative analysis of surface hygiene. International Journal of Food Microbiology, 2009, 135, 75-80.	4.7	16
46	The effect of surface properties on the strength of attachment of fungal spores using AFM perpendicular force measurements. Colloids and Surfaces B: Biointerfaces, 2011, 82, 483-489.	5.0	16
47	Photocatalytic inactivation of Escherichia coli using doped titanium dioxide under fluorescent irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 276, 50-57.	3.9	16
48	Antimicrobial activity of Ti-ZrN/Ag coatings for use in biomaterial applications. Scientific Reports, 2018, 8, 1497.	3.3	16
49	Influence of flow direction and flow rate on the initial adhesion of seven Listeria monocytogenes strains to fine polished stainless steel. International Journal of Food Microbiology, 2012, 157, 174-181.	4.7	15
50	Ionic gold demonstrates antimicrobial activity against Pseudomonas aeruginosa strains due to cellular ultrastructure damage. Archives of Microbiology, 2021, 203, 3015-3024.	2.2	15
51	Additive manufactured graphene-based electrodes exhibit beneficial performances in Pseudomonas aeruginosa microbial fuel cells. Journal of Power Sources, 2021, 499, 229938.	7.8	15
52	The Antimicrobial Properties of Titanium Nitride/Silver Nanocomposite Coatings. Journal of Adhesion Science and Technology, 2011, 25, 2299-2315.	2.6	14
53	Metal ions and graphene-based compounds as alternative treatment options for burn wounds infected by antibiotic-resistant Pseudomonas aeruginosa. Archives of Microbiology, 2020, 202, 995-1004.	2.2	13
54	Molybdenum Disulfide Surfaces to Reduce <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> Biofilm Formation. ACS Applied Materials & Interfaces, 2020, 12, 21057-21069.	8.0	13

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55	Single and combined antimicrobial efficacies for nine metal ion solutions against Klebsiella pneumoniae, Acinetobacter baumannii and Enterococcus faecium. International Biodeterioration and Biodegradation, 2019, 141, 39-43.	3.9	12
56	Rhenium and yttrium ions as antimicrobial agents against multidrug resistant Klebsiella pneumoniae and Acinetobacter baumannii biofilms. Letters in Applied Microbiology, 2019, 69, 168-174.	2.2	12
57	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of <i>Staphylococcus aureus</i> Growth in Buffered Solutions and Digestate Samples. ACS Applied Bio Materials, 2019, 2, 3790-3798.	4.6	11
58	Exploring the reactivity of distinct electron transfer sites at CVD grown monolayer graphene through the selective electrodeposition of MoO2 nanowires. Scientific Reports, 2019, 9, 12814.	3.3	11
59	Principal Component Analysis to Determine the Surface Properties That Influence the Self-Cleaning Action of Hydrophobic Plant Leaves. Langmuir, 2021, 37, 8177-8189.	3.5	11
60	The Influence of Silver Content on the Tribological and Antimicrobial Properties of ZrN/Ag Nanocomposite Coatings. Journal of Nanoscience and Nanotechnology, 2011, 11, 5383-5387.	0.9	10
61	Developing application and detection methods for Listeria monocytogenes and fish extract on open surfaces in order to optimize cleaning protocols. Food and Bioproducts Processing, 2015, 93, 224-233.	3.6	10
62	The effect of surface properties on bacterial retention: A study utilising stainless steel and TiN/25.65at.%Ag substrata. Food and Bioproducts Processing, 2017, 102, 332-339.	3.6	10
63	Modular Synthesis and Biological Investigation of 5-Hydroxymethyl Dibenzyl Butyrolactones and Related Lignans. Molecules, 2018, 23, 3057.	3.8	9
64	Photodynamic antimicrobial chemotherapy coupled with the use of the photosensitizers methylene blue and temoporfin as a potential novel treatment for Staphylococcus aureus in burn infections. Access Microbiology, 2021, 3, 000273.	0.5	9
65	Surface modification of platelet concentrate bags to reduce biofilm formation and transfusion sepsis. Colloids and Surfaces B: Biointerfaces, 2017, 160, 126-135.	5.0	8
66	Poly(para-phenylene ethynylene) (PPE)- and poly(para-phenylene vinylene) (PPV)-poly[(2-(methacryloyloxy)ethyl) trimethylammonium chloride] (PMETAC) graft copolymers exhibit selective antimicrobial activity. European Polymer Journal, 2018, 98, 368-374.	5.4	8
67	Drawing inspiration from nature to develop anti-fouling coatings: the development of biomimetic polymer surfaces and their effect on bacterial fouling. Pure and Applied Chemistry, 2021, 93, 1097-1108.	1.9	8
68	Efficient chemical hydrophobization of lactic acid bacteria – One-step formation of double emulsion. Food Research International, 2021, 147, 110460.	6.2	8
69	Effectiveness of titanium nitride silver coatings against Staphylococcus spp. in the presence of BSA and whole blood conditioning agents. International Biodeterioration and Biodegradation, 2019, 141, 44-51.	3.9	7
70	Graphene Matrices as Carriers for Metal Ions against Antibiotic Susceptible and Resistant Bacterial Pathogens. Coatings, 2021, 11, 352.	2.6	7
71	The effect of the surface properties of poly(methyl methacrylate) on the attachment, adhesion and retention of fungal conidia. AIMS Bioengineering, 2020, 7, 165-178.	1.1	7
72	The influence of picosecond laser generated periodic structures on bacterial behaviour. Applied Surface Science, 2021, 540, 148292.	6.1	6

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73	Polyâ€ <i>p</i> â€phenylenevinyleneâ€ <i>g</i> â€poly(2â€(methacryloyloxy)Ethyl)trimethylammonium chloride (PPVâ€gâ€PMETAC): A fluorescent, waterâ€soluble, selective anion sensor. Journal of Polymer Science Part A, 2018, 56, 1997-2003.	2.3	5
74	A novel microbiological medium for the growth of periodontitis associated pathogens. Journal of Microbiological Methods, 2019, 163, 105647.	1.6	5
75	Electrochemical Decoration of Additively Manufactured Graphene Macroelectrodes with MoO <sub>2</sub> Nanowires: An Approach to Demonstrate the Surface Morphology. Journal of Physical Chemistry C, 2020, 124, 15377-15385.	3.1	5
76	Diverse surface properties reveal that substratum roughness affects fungal spore binding. IScience, 2021, 24, 102333.	4.1	5
77	Antimicrobial properties of Modified Graphene and other advanced 2D Material Coated Surfaces. , 2018, , 86-104.		5
78	Multi-species colloidosomes by surface-modified lactic acid bacteria with enhanced aggregation properties. Journal of Colloid and Interface Science, 2022, 622, 503-514.	9.4	5
79	Inactivating pentapeptide insertions in the fission yeast replication factor C subunit Rfc2 cluster near the ATPâ€binding site and arginine finger motif. FEBS Journal, 2009, 276, 4803-4813.	4.7	4
80	The detection and quantification of food components on stainless steel surfaces following use in an operational bakery. Food and Bioproducts Processing, 2019, 116, 258-267.	3.6	4
81	The Removal of Meat Exudate and Escherichia coli from Stainless Steel and Titanium Surfaces with Irregular and Regular Linear Topographies. International Journal of Environmental Research and Public Health, 2021, 18, 3198.	2.6	4
82	Antimicrobial synergy of cationic grafted poly(para-phenylene ethynylene) and poly(para-phenylene) Tj ETQq0 0 ( 23433-23441.	0 rgBT /Ov 3.6	verlock 10 Tf 2
83	Differential engulfment of and by monocyte-derived macrophages is associated with altered phagocyte biochemistry and morphology. EXCLI Journal, 2020, 19, 1372-1384.	0.7	2
84	Multifractal Analysis to Determine the Effect of Surface Topography on the Distribution, Density, Dispersion and Clustering of Differently Organised Coccal-Shaped Bacteria. Antibiotics, 2022, 11, 551.	3.7	2
85	Effects of Neutral, Anionic and Cationic Polymer Brushes Grafted from Poly(para-phenylene vinylene) and Poly(para-phenylene ethynylene) on the Polymer's Photoluminescent Properties. Polymers, 2022, 14, 2767.	4.5	2
86	The Influence of Surface Topography and Wettability on Escherichia coli Removal from Polymeric Materials in the Presence of a Blood Conditioning Film. International Journal of Environmental Research and Public Health, 2020, 17, 7368.	2.6	1
87	Recommendations for Influenza Vaccination in Burns Patients Based on a Systematic Review of the Evidence. Journal of Burn Care and Research, 2021, , .	0.4	1
88	Graphene derivatives potentiate the activity of antibiotics against <em>Enterococcus faecium, Klebsiella pneumoniae</em> and <em>Escherichia coli</em> . AIMS Bioengineering, 2020, 7, 106-113.	1.1	1
89	A systematic review on the incidence and risk factors of surgical site infections following hepatopancreatobiliary (HPB) surgery. AIMS Bioengineering, 2022, 9, 123-144.	1.1	1
90	The use of physicochemical methods to detect organic food soils on stainless steel surfaces. Biofouling, 2012, 28, 879-879.	2.2	0

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91	Use of spherical particles to understand conidial attachment to surfaces using atomic force microscopy. IScience, 2021, 24, 101962.	4.1	0