

Kathryn A Whitehead

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,120
citations

201674

27
h-index

168389

53
g-index

93
all docs

93
docs citations

93
times ranked

3929
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review on the incidence and risk factors of surgical site infections following hepatopancreatobiliary (HPB) surgery. <i>AIMS Bioengineering</i> , 2022, 9, 123-144.	1.1	1
2	Multifractal Analysis to Determine the Effect of Surface Topography on the Distribution, Density, Dispersion and Clustering of Differently Organised Coccal-Shaped Bacteria. <i>Antibiotics</i> , 2022, 11, 551.	3.7	2
3	Multi-species colloidosomes by surface-modified lactic acid bacteria with enhanced aggregation properties. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 503-514.	9.4	5
4	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. <i>Polymers</i> , 2022, 14, 2767.	4.5	2
5	The influence of picosecond laser generated periodic structures on bacterial behaviour. <i>Applied Surface Science</i> , 2021, 540, 148292.	6.1	6
6	Polyamine biomarkers as indicators of human disease. <i>Biomarkers</i> , 2021, 26, 77-94.	1.9	22
7	Ionic gold demonstrates antimicrobial activity against <i>Pseudomonas aeruginosa</i> strains due to cellular ultrastructure damage. <i>Archives of Microbiology</i> , 2021, 203, 3015-3024.	2.2	15
8	The Removal of Meat Exudate and <i>Escherichia coli</i> from Stainless Steel and Titanium Surfaces with Irregular and Regular Linear Topographies. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3198.	2.6	4
9	Recommendations for Influenza Vaccination in Burns Patients Based on a Systematic Review of the Evidence. <i>Journal of Burn Care and Research</i> , 2021, , .	0.4	1
10	Graphene Matrices as Carriers for Metal Ions against Antibiotic Susceptible and Resistant Bacterial Pathogens. <i>Coatings</i> , 2021, 11, 352.	2.6	7
11	One-pot bioinspired synthesis of fluorescent metal chalcogenide and carbon quantum dots: Applications and potential biotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111578.	5.0	23
12	Diverse surface properties reveal that substratum roughness affects fungal spore binding. <i>IScience</i> , 2021, 24, 102333.	4.1	5
13	Principal Component Analysis to Determine the Surface Properties That Influence the Self-Cleaning Action of Hydrophobic Plant Leaves. <i>Langmuir</i> , 2021, 37, 8177-8189.	3.5	11
14	Drawing inspiration from nature to develop anti-fouling coatings: the development of biomimetic polymer surfaces and their effect on bacterial fouling. <i>Pure and Applied Chemistry</i> , 2021, 93, 1097-1108.	1.9	8
15	Additive manufactured graphene-based electrodes exhibit beneficial performances in <i>Pseudomonas aeruginosa</i> microbial fuel cells. <i>Journal of Power Sources</i> , 2021, 499, 229938.	7.8	15
16	Non-thermal plasma-based inactivation of bacteria in water using a microfluidic reactor. <i>Water Research</i> , 2021, 201, 117321.	11.3	27
17	Efficient chemical hydrophobization of lactic acid bacteria " One-step formation of double emulsion. <i>Food Research International</i> , 2021, 147, 110460.	6.2	8
18	Use of spherical particles to understand conidial attachment to surfaces using atomic force microscopy. <i>IScience</i> , 2021, 24, 101962.	4.1	0

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19	Photodynamic antimicrobial chemotherapy coupled with the use of the photosensitizers methylene blue and temoporfin as a potential novel treatment for <i>Staphylococcus aureus</i> in burn infections. <i>Access Microbiology</i> , 2021, 3, 000273.	0.5	9
20	Metal ions and graphene-based compounds as alternative treatment options for burn wounds infected by antibiotic-resistant <i>Pseudomonas aeruginosa</i> . <i>Archives of Microbiology</i> , 2020, 202, 995-1004.	2.2	13
21	The Influence of Surface Topography and Wettability on <i>Escherichia coli</i> Removal from Polymeric Materials in the Presence of a Blood Conditioning Film. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7368.	2.6	1
22	Electrochemical Decoration of Additively Manufactured Graphene Macroelectrodes with MoO ₂ Nanowires: An Approach to Demonstrate the Surface Morphology. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15377-15385.	3.1	5
23	Exploring the putative interactions between chronic kidney disease and chronic periodontitis. <i>Critical Reviews in Microbiology</i> , 2020, 46, 61-77.	6.1	24
24	The Effect of Surface Hydrophobicity on the Attachment of Fungal Conidia to Substrates of Polyvinyl Acetate and Polyvinyl Alcohol. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1450-1464.	5.0	20
25	Molybdenum Disulfide Surfaces to Reduce <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21057-21069.	8.0	13
26	Graphene derivatives potentiate the activity of antibiotics against <i>Enterococcus faecium</i> , <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> . <i>AIMS Bioengineering</i> , 2020, 7, 106-113.	1.1	1
27	The effect of the surface properties of poly(methyl methacrylate) on the attachment, adhesion and retention of fungal conidia. <i>AIMS Bioengineering</i> , 2020, 7, 165-178.	1.1	7
28	Differential engulfment of and by monocyte-derived macrophages is associated with altered phagocyte biochemistry and morphology. <i>EXCLI Journal</i> , 2020, 19, 1372-1384.	0.7	2
29	Single and combined antimicrobial efficacies for nine metal ion solutions against <i>Klebsiella pneumoniae</i> , <i>Acinetobacter baumannii</i> and <i>Enterococcus faecium</i> . <i>International Biodeterioration and Biodegradation</i> , 2019, 141, 39-43.	3.9	12
30	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of <i>Staphylococcus aureus</i> Growth in Buffered Solutions and Digestate Samples. <i>ACS Applied Bio Materials</i> , 2019, 2, 3790-3798.	4.6	11
31	The detection and quantification of food components on stainless steel surfaces following use in an operational bakery. <i>Food and Bioproducts Processing</i> , 2019, 116, 258-267.	3.6	4
32	Exploring the reactivity of distinct electron transfer sites at CVD grown monolayer graphene through the selective electrodeposition of MoO ₂ nanowires. <i>Scientific Reports</i> , 2019, 9, 12814.	3.3	11
33	A novel microbiological medium for the growth of periodontitis associated pathogens. <i>Journal of Microbiological Methods</i> , 2019, 163, 105647.	1.6	5
34	Rhenium and yttrium ions as antimicrobial agents against multidrug resistant <i>Klebsiella pneumoniae</i> and <i>Acinetobacter baumannii</i> biofilms. <i>Letters in Applied Microbiology</i> , 2019, 69, 168-174.	2.2	12
35	The antimicrobial effect of metal substrates on food pathogens. <i>Food and Bioproducts Processing</i> , 2019, 113, 68-76.	3.6	32
36	Microbial fuel cells: An overview of current technology. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 60-81.	16.4	473

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37	Antimicrobial strategies to reduce polymer biomaterial infections and their economic implications and considerations. <i>International Biodeterioration and Biodegradation</i> , 2019, 136, 1-14.	3.9	57
38	Effectiveness of titanium nitride silver coatings against <i>Staphylococcus</i> spp. in the presence of BSA and whole blood conditioning agents. <i>International Biodeterioration and Biodegradation</i> , 2019, 141, 44-51.	3.9	7
39	The effects of blood conditioning films on the antimicrobial and retention properties of zirconium-nitride silver surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 303-311.	5.0	17
40	Antimicrobial activity of Ti-ZrN/Ag coatings for use in biomaterial applications. <i>Scientific Reports</i> , 2018, 8, 1497.	3.3	16
41	Poly(para-phenylene ethynylene) (PPE)- and poly(para-phenylene vinylene) (PPV)-poly[(2-(methacryloyloxy)ethyl) trimethylammonium chloride] (PMETAC) graft copolymers exhibit selective antimicrobial activity. <i>European Polymer Journal</i> , 2018, 98, 368-374.	5.4	8
42	Picosecond laser treatment production of hierarchical structured stainless steel to reduce bacterial fouling. <i>Food and Bioproducts Processing</i> , 2018, 109, 29-40.	3.6	43
43	Thieno[2,3-b]pyridine derivatives are potent anti-platelet drugs, inhibiting platelet activation, aggregation and showing synergy with aspirin. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1997-2004.	5.5	27
44	Modular Synthesis and Biological Investigation of 5-Hydroxymethyl Dibenzyl Butyrolactones and Related Lignans. <i>Molecules</i> , 2018, 23, 3057.	3.8	9
45	Poly(phenylenevinylene)-poly(2-(methacryloyloxy)Ethyl)trimethylammonium chloride (PPV-g-PMETAC): A fluorescent, water-soluble, selective anion sensor. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1997-2003.	2.3	5
46	Exploring the electrochemical performance of graphite and graphene paste electrodes composed of varying lateral flake sizes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20010-20022.	2.8	35
47	Antimicrobial synergy of cationic grafted poly(para-phenylene ethynylene) and poly(para-phenylene) Tj ETQq1 1 0.784314 rgBT /Overloc 23433-23441.	3.6	2
48	Antimicrobial properties of Modified Graphene and other advanced 2D Material Coated Surfaces. , 2018, , 86-104.		5
49	The effect of surface properties on bacterial retention: A study utilising stainless steel and TiN/25.65at.%Ag substrata. <i>Food and Bioproducts Processing</i> , 2017, 102, 332-339.	3.6	10
50	Effect of surface conditioning with cellular extracts on <i>Escherichia coli</i> adhesion and initial biofilm formation. <i>Food and Bioproducts Processing</i> , 2017, 104, 1-12.	3.6	31
51	Production of hybrid macro/micro/nano surface structures on Ti6Al4V surfaces by picosecond laser surface texturing and their antifouling characteristics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 688-696.	5.0	68
52	Surface modification of platelet concentrate bags to reduce biofilm formation and transfusion sepsis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 126-135.	5.0	8
53	Antimicrobial activity of graphene oxide-metal hybrids. <i>International Biodeterioration and Biodegradation</i> , 2017, 123, 182-190.	3.9	49
54	Antimicrobial Efficacy and Synergy of Metal Ions against <i>Enterococcus faecium</i> , <i>Klebsiella pneumoniae</i> and <i>Acinetobacter baumannii</i> in Planktonic and Biofilm Phenotypes. <i>Scientific Reports</i> , 2017, 7, 5911.	3.3	111

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55	Developing application and detection methods for <i>Listeria monocytogenes</i> and fish extract on open surfaces in order to optimize cleaning protocols. <i>Food and Bioproducts Processing</i> , 2015, 93, 224-233.	3.6	10
56	The effect of surface properties of polycrystalline, single phase metal coatings on bacterial retention. <i>International Journal of Food Microbiology</i> , 2015, 197, 92-97.	4.7	22
57	Formation, architecture and functionality of microbial biofilms in the food industry. <i>Current Opinion in Food Science</i> , 2015, 2, 84-91.	8.0	53
58	Photocatalytic TiO ₂ and Doped TiO ₂ Coatings to Improve the Hygiene of Surfaces Used in Food and Beverage Processing – A Study of the Physical and Chemical Resistance of the Coatings. <i>Coatings</i> , 2014, 4, 433-449.	2.6	17
59	Molybdenum doped titanium dioxide photocatalytic coatings for use as hygienic surfaces: the effect of soiling on antimicrobial activity. <i>Biofouling</i> , 2014, 30, 911-919.	2.2	30
60	Photocatalytic inactivation of <i>Escherichia coli</i> using doped titanium dioxide under fluorescent irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 276, 50-57.	3.9	16
61	The effect of dentifrice abrasion on denture topography and the subsequent retention of microorganisms on abraded surfaces. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 1513-1522.	2.8	46
62	Quantifying the pattern of microbial cell dispersion, density and clustering on surfaces of differing chemistries and topographies using multifractal analysis. <i>Journal of Microbiological Methods</i> , 2014, 104, 101-108.	1.6	27
63	A comparative study of fine polished stainless steel, TiN and TiN/Ag surfaces: Adhesion and attachment strength of <i>Listeria monocytogenes</i> as well as anti-listerial effect. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 190-196.	5.0	18
64	The use of physicochemical methods to detect organic food soils on stainless steel surfaces. <i>Biofouling</i> , 2012, 28, 879-879.	2.2	0
65	Antimicrobial Activity of Nanocomposite Zirconium Nitride/Silver Coatings to Combat External Bone Fixation Pin Infections. <i>International Journal of Artificial Organs</i> , 2012, 35, 817-825.	1.4	22
66	Initial adhesion of <i>Listeria monocytogenes</i> to solid surfaces under liquid flow. <i>International Journal of Food Microbiology</i> , 2012, 152, 181-188.	4.7	29
67	Influence of flow direction and flow rate on the initial adhesion of seven <i>Listeria monocytogenes</i> strains to fine polished stainless steel. <i>International Journal of Food Microbiology</i> , 2012, 157, 174-181.	4.7	15
68	The Influence of Silver Content on the Tribological and Antimicrobial Properties of ZrN/Ag Nanocomposite Coatings. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5383-5387.	0.9	10
69	The effect of surface properties on the strength of attachment of fungal spores using AFM perpendicular force measurements. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 483-489.	5.0	16
70	The detection of food soils on stainless steel using energy dispersive X-ray and Fourier transform infrared spectroscopy. <i>Biofouling</i> , 2011, 27, 907-917.	2.2	22
71	The Antimicrobial Properties of Titanium Nitride/Silver Nanocomposite Coatings. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 2299-2315.	2.6	14
72	A critical evaluation of sampling methods used for assessing microorganisms on surfaces. <i>Food and Bioproducts Processing</i> , 2010, 88, 335-340.	3.6	23

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73	The detection and influence of food soils on microorganisms on stainless steel using scanning electron microscopy and epifluorescence microscopy. <i>International Journal of Food Microbiology</i> , 2010, 141, S125-S133.	4.7	29
74	Titanium-coating of stainless steel as an aid to improved cleanability. <i>International Journal of Food Microbiology</i> , 2010, 141, S134-S139.	4.7	23
75	Comparison of the tribological and antimicrobial properties of CrN/Ag, ZrN/Ag, TiN/Ag, and TiN/Cu nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2010, 205, 1606-1610.	4.8	150
76	Photoinactivation of <i>Escherichia coli</i> on acrylic paint formulations using fluorescent light. <i>Dyes and Pigments</i> , 2010, 86, 56-62.	3.7	38
77	The retention of bacteria on hygienic surfaces presenting scratches of microbial dimensions. <i>Letters in Applied Microbiology</i> , 2010, 50, 258-263.	2.2	41
78	Use of the Atomic Force Microscope to Determine the Strength of Bacterial Attachment to Grooved Surface Features. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 2271-2285.	2.6	22
79	The use of physicochemical methods to detect organic food soils on stainless steel surfaces. <i>Biofouling</i> , 2009, 25, 749-756.	2.2	28
80	Differential fluorescent staining of <i>Listeria monocytogenes</i> and a whey food soil for quantitative analysis of surface hygiene. <i>International Journal of Food Microbiology</i> , 2009, 135, 75-80.	4.7	16
81	Inactivating pentapeptide insertions in the fission yeast replication factor C subunit Rfc2 cluster near the ATP-binding site and arginine finger motif. <i>FEBS Journal</i> , 2009, 276, 4803-4813.	4.7	4
82	A study of the antimicrobial and tribological properties of TiN/Ag nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2009, 204, 1137-1140.	4.8	116
83	Inactivation of <i>Escherichia coli</i> on immobilized TiO ₂ using fluorescent light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 202, 92-98.	3.9	161
84	The detection of food soils and cells on stainless steel using industrial methods: UV illumination and ATP bioluminescence. <i>International Journal of Food Microbiology</i> , 2008, 127, 121-128.	4.7	54
85	Chapter 8 Microbial Retention on Open Food Contact Surfaces and Implications for Food Contamination. <i>Advances in Applied Microbiology</i> , 2008, 64, 223-246.	2.4	41
86	The effect of surface properties and application method on the retention of <i>Pseudomonas aeruginosa</i> on uncoated and titanium-coated stainless steel. <i>International Biodeterioration and Biodegradation</i> , 2007, 60, 74-80.	3.9	47
87	Use of the atomic force microscope to determine the effect of substratum surface topography on the ease of bacterial removal. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 51, 44-53.	5.0	121
88	The Effect of Surface Topography on the Retention of Microorganisms. <i>Food and Bioproducts Processing</i> , 2006, 84, 253-259.	3.6	184
89	Assessment of Organic Materials and Microbial Components on Hygienic Surfaces. <i>Food and Bioproducts Processing</i> , 2006, 84, 260-264.	3.6	30
90	Retention of microbial cells in substratum surface features of micrometer and sub-micrometer dimensions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 41, 129-138.	5.0	263

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91	The production of surfaces of defined topography and chemistry for microbial retention studies, using ion beam sputtering technology. <i>International Biodeterioration and Biodegradation</i> , 2004, 54, 143-151.	3.9	34