Rikke Louise Meyer

List of Publications by Year
in descending order

127	9,576	38738 50	40976 93
papers	citations	h-index	g-index

132	132	132	13432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Essential Oils in Food Preservation: Mode of Action, Synergies, and Interactions with Food Matrix Components. Frontiers in Microbiology, 2012, 3, 12.	3.5	1,370
2	Critical review on biofilm methods. Critical Reviews in Microbiology, 2017, 43, 313-351.	6.1	693
3	Filamentous bacteria transport electrons over centimetre distances. Nature, 2012, 491, 218-221.	27.8	475
4	The role of extracellular DNA in the establishment, maintenance and perpetuation of bacterial biofilms. Critical Reviews in Microbiology, 2015, 41, 341-352.	6.1	378
5	Anaerobic ammonium oxidation in an estuarine sediment. Aquatic Microbial Ecology, 2004, 36, 293-304.	1.8	232
6	Extracellular DNA as a target for biofilm control. Current Opinion in Biotechnology, 2015, 33, 73-80.	6.6	219
7	The Antimicrobial Mechanism of Action of Epsilon-Poly- <scp>l</scp> -Lysine. Applied and Environmental Microbiology, 2014, 80, 7758-7770.	3.1	218
8	Application of the isotope pairing technique in sediments where anammox and denitrification coexist. Limnology and Oceanography: Methods, 2003, 1, 63-73.	2.0	193
9	Correlation between Anammox Activity and Microscale Distribution of Nitrite in a Subtropical Mangrove Sediment. Applied and Environmental Microbiology, 2005, 71, 6142-6149.	3.1	184
10	Antifouling enzymes and the biochemistry of marine settlement. Biotechnology Advances, 2008, 26, 471-481.	11.7	182
11	Spatial and temporal variation of nitrous oxide and methane flux between subtropical mangrove sediments and the atmosphere. Soil Biology and Biochemistry, 2007, 39, 622-631.	8.8	180
12	Putative glycogen-accumulating organisms belonging to the Alphaproteobacteria identified through rRNA-based stable isotope probing. Microbiology (United Kingdom), 2006, 152, 419-429.	1.8	156
13	Confocal microscopy imaging of the biofilm matrix. Journal of Microbiological Methods, 2017, 138, 50-59.	1.6	145
14	Identifying causes for N2O accumulation in a lab-scale sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. Journal of Biotechnology, 2006, 122, 62-72.	3.8	139
15	Immobilisation of living bacteria for AFM imaging under physiological conditions. Ultramicroscopy, 2010, 110, 1349-1357.	1.9	139
16	Evaluation of oxygen injection as a means of controlling sulfide production in a sewer system. Water Research, 2008, 42, 4549-4561.	11.3	135
17	Functional bacterial amyloid increases Pseudomonas biofilm hydrophobicity and stiffness. Frontiers in Microbiology, 2015, 6, 1099.	3.5	133
18	Thermo-Responsive Coreâ^'Sheath Electrospun Nanofibers from Poly (N-isopropylacrylamide)/Polycaprolactone Blends. Chemistry of Materials, 2010, 22, 4214-4221.	6.7	116

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19	Electric coupling between distant nitrate reduction and sulfide oxidation in marine sediment. ISME Journal, 2014, 8, 1682-1690.	9.8	115
20	Community structure and activity of sulfate-reducing bacteria in an intertidal surface sediment: a multi-method approach. Aquatic Microbial Ecology, 2002, 29, 211-226.	1.8	111
21	Challenges for simultaneous nitrification, denitrification, and phosphorus removal in microbial aggregates: mass transfer limitation and nitrous oxide production. FEMS Microbiology Ecology, 2005, 52, 329-338.	2.7	108
22	Impact of nitrate addition on biofilm properties and activities in rising main sewers. Water Research, 2009, 43, 4225-4237.	11.3	106
23	Effects of Tween 80 on Growth and Biofilm Formation in Laboratory Media. Frontiers in Microbiology, 2016, 7, 1878.	3.5	105
24	Combination of Rhamnolipid and Chitosan in Nanoparticles Boosts Their Antimicrobial Efficacy. ACS Applied Materials & Interfaces, 2020, 12, 5488-5499.	8.0	100
25	Curvature of Synthetic and Natural Surfaces Is an Important Target Feature in Classical Pathway Complement Activation. Journal of Immunology, 2010, 184, 1931-1945.	0.8	98
26	Quantification of biofilm biomass by staining: Non-toxic safranin can replace the popular crystal violet. Journal of Microbiological Methods, 2017, 141, 87-89.	1.6	87
27	Extracellular DNA in adhesion and biofilm formation of four environmental isolates: a quantitative study. FEMS Microbiology Ecology, 2013, 86, 394-403.	2.7	86
28	Nitrification and denitrification as sources of sediment nitrous oxide production: A microsensor approach. Marine Chemistry, 2008, 110, 68-76.	2.3	83
29	Mesoporous silica nanoparticles carrying multiple antibiotics provide enhanced synergistic effect and improved biocompatibility. Colloids and Surfaces B: Biointerfaces, 2019, 175, 498-508.	5.0	83
30	Bio-supported palladium nanoparticles as a catalyst for Suzukiâ€“Miyaura and Mizorokiâ€“Heck reactions. Green Chemistry, 2009, 11, 2041.	9.0	82
31	Evaluation of critical parameters for preparation of stable clove oil nanoemulsion. Arabian Journal of Chemistry, 2019, 12, 3225-3230.	4.9	80
32	Formation of palladium(0) nanoparticles at microbial surfaces. Biotechnology and Bioengineering, 2010, 107, 206-215.	3.3	78
33	Evaluation of fluorescent stains for visualizing extracellular DNA in biofilms. Journal of Microbiological Methods, 2014, 105, 102-104.	1.6	77
34	Epigallocatechin Gallate Remodels Overexpressed Functional Amyloids in Pseudomonas aeruginosa and Increases Biofilm Susceptibility to Antibiotic Treatment. Journal of Biological Chemistry, 2016, 291, 26540-26553.	3.4	75
35	Novel prosthecate bacteria from the candidate phylum Acetothermia. ISME Journal, 2018, 12, 2225-2237.	9.8	75
36	Clove oil nanoemulsion as an effective antibacterial agent: Taguchi optimization method. Desalination and Water Treatment, 2016, 57, 18379-18390.	1.0	72

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37	Application of the isotope pairing technique in sediments where anammox and denitrification co-exist. Limnology and Oceanography: Methods, 2011, 1, 63-73.	2.0	72
38	Nitrite effectively inhibits sulfide and methane production in a laboratory scale sewer reactor. Water Research, 2008, 42, 3961-3971.	11.3	68
39	Loading of polymyxin B onto anionic mesoporous silica nanoparticles retains antibacterial activity and enhances biocompatibility. International Journal of Pharmaceutics, 2018, 537, 148-161.	5.2	66
40	Nonâ€enzymatic palladium recovery on microbial and synthetic surfaces. Biotechnology and Bioengineering, 2012, 109, 1889-1897.	3.3	65
41	Inhibition of the ATP Synthase Eliminates the Intrinsic Resistance of Staphylococcus aureus towards Polymyxins. MBio, 2017, 8, .	4.1	65
42	Water Distribution and Microstructure in Enhanced Pork. Journal of Agricultural and Food Chemistry, 2008, 56, 7201-7207.	5.2	64
43	Removing selected steroid hormones, biocides and pharmaceuticals from water by means of biogenic manganese oxide nanoparticles in situ at ppb levels. Chemosphere, 2015, 136, 321-326.	8.2	61
44	Biomimetic silica encapsulation of enzymes for replacement of biocides in antifouling coatings. Green Chemistry, 2010, 12, 387-394.	9.0	56
45	Identification and Directed Development of Nonâ€Organic Catalysts with Apparent Panâ€Enzymatic Mimicry into Nanozymes for Efficient Prodrug Conversion. Angewandte Chemie - International Edition, 2019, 58, 278-282.	13.8	56
46	Single-Cell Force Spectroscopy of Bacteria Enabled by Naturally Derived Proteins. Langmuir, 2014, 30, 4019-4025.	3.5	55
47	Environmentally Benign Recovery and Reactivation of Palladium from Industrial Waste by Using Gramâ€Negative Bacteria. ChemSusChem, 2010, 3, 1036-1039.	6.8	54
48	Identification of glucose-fermenting bacteria in a full-scale enhanced biological phosphorus removal plant by stable isotope probing. Microbiology (United Kingdom), 2012, 158, 1818-1825.	1.8	53
49	Biofilm retention on surfaces with variable roughness and hydrophobicity. Biofouling, 2011, 27, 111-121.	2.2	52
50	Microbially supported synthesis of catalytically active bimetallic Pdâ€Au nanoparticles. Biotechnology and Bioengineering, 2012, 109, 45-52.	3.3	52
51	Size control and catalytic activity of bio-supported palladium nanoparticles. Colloids and Surfaces B: Biointerfaces, 2011, 85, 373-378.	5.0	51
52	Antimicrobial Mechanism of Monocaprylate. Applied and Environmental Microbiology, 2012, 78, 2957-2965.	3.1	50
53	Denitrification and anaerobic ammonium oxidation in sediments: effects of microphytobenthos and NO3-. Aquatic Microbial Ecology, 2005, 40, 67-76.	1.8	47
54	pH Landscapes in a Novel Five-Species Model of Early Dental Biofilm. PLoS ONE, 2011, 6, e25299.	2.5	46

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55	Protein Engineering Reveals Mechanisms of Functional Amyloid Formation in Pseudomonas aeruginosa Biofilms. Journal of Molecular Biology, 2018, 430, 3751-3763.	4.2	44
56	Comparative genomics reveals distinct host-interacting traits of three major human-associated propionibacteria. BMC Genomics, 2013, 14, 640.	2.8	43
57	Development of a Label-Free LSPR-Apta Sensor for Staphylococcus aureus Detection. ACS Applied Bio Materials, 2020, 3, 3066-3077.	4.6	42
58	Rifampicin-containing combinations are superior to combinations of vancomycin, linezolid and daptomycin againstStaphylococcus aureusbiofilm infectionin vivoandin vitro. Pathogens and Disease, 2016, 74, ftw019.	2.0	41
59	Microscale structure and function of anaerobicÃ¢Â€Â“aerobic granules containing glycogen accumulating organisms. FEMS Microbiology Ecology, 2003, 45, 253-261.	2.7	39
60	Ag/Fe3O4 nanocomposites penetrate and eradicate S. aureus biofilm in an in vitro chronic wound model. Colloids and Surfaces B: Biointerfaces, 2018, 163, 192-200.	5.0	39
61	Quaternary Ammoniumyl Chitosan Derivatives for Eradication of Staphylococcus aureus Biofilms. Biomacromolecules, 2018, 19, 3649-3658.	5.4	39
62	Isoeugenol has a non-disruptive detergent-like mechanism of action. Frontiers in Microbiology, 2015, 6, 754.	3.5	38
63	DNase-Sensitive and -Resistant Modes of Biofilm Formation by Listeria monocytogenes. Frontiers in Microbiology, 2015, 6, 1428.	3.5	38
64	Enhancing the antibacterial efficacy of isoeugenol by emulsion encapsulation. International Journal of Food Microbiology, 2016, 229, 7-14.	4.7	38
65	Adhesion of food-borne bacteria to stainless steel is reduced by food conditioning films. Journal of Applied Microbiology, 2009, 106, 1268-1279.	3.1	37
66	Non-proteinaceous bacterial adhesins challenge the antifouling properties of polymer brush coatings. Acta Biomaterialia, 2015, 24, 64-73.	8.3	37
67	Antimicrobial effect of emulsion-encapsulated isoeugenol against biofilms of food pathogens and spoilage bacteria. International Journal of Food Microbiology, 2017, 242, 7-12.	4.7	37
68	Ordering of Binary Polymeric Nanoparticles on Hydrophobic Surfaces Assembled from Low Volume Fraction Dispersions. Journal of the American Chemical Society, 2007, 129, 13390-13391.	13.7	36
69	Dynamic microbial response of sulfidogenic wastewater biofilm to nitrate. Applied Microbiology and Biotechnology, 2011, 91, 1647-1657.	3.6	36
70	Entrapment of Subtilisin in Ceramic Solâ€“Gel Coating for Antifouling Applications. ACS Applied Materials & Interfaces, 2012, 4, 5915-5921.	8.0	36
71	Differential distribution of ammonia- and nitrite-oxidising bacteria in flocs and granules from a nitrifying/denitrifying sequencing batch reactor. Enzyme and Microbial Technology, 2006, 39, 1392-1398.	3.2	35
72	Enzymatic generation of hydrogen peroxide shows promising antifouling effect. Biofouling, 2009, 26, 141-153.	2.2	35

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73	Achromobacter Species Isolated from Cystic Fibrosis Patients Reveal Distinctly Different Biofilm Morphotypes. Microorganisms, 2016, 4, 33.	3.6	35
74	Prospective role of indigenousExiguobacterium profundumPT2 in arsenic biotransformation and biosorption by planktonic cultures and biofilms. Journal of Applied Microbiology, 2018, 124, 431-443.	3.1	34
75	Use of NOx- microsensors to estimate the activity of sediment nitrification and NOx- consumption along an estuarine salinity, nitrate, and light gradient. Aquatic Microbial Ecology, 2001, 26, 181-193.	1.8	34
76	A transposon mutant library of Bacillus cereus ATCC 10987 reveals novel genes required for biofilm formation and implicates motility as an important factor for pellicleâ€biofilm formation. MicrobiologyOpen, 2018, 7, e00552.	3.0	32
77	Microscale Biosensor for Measurement of Volatile Fatty Acids in Anoxic Environments. Applied and Environmental Microbiology, 2002, 68, 1204-1210.	3.1	31
78	Colonization of the Oral Cavity by Probiotic Bacteria. Caries Research, 2012, 46, 107-112.	2.0	31
79	Variation in Biofilm Structure and Activity Along the Length of a Rising Main Sewer. Water Environment Research, 2009, 81, 800-808.	2.7	30
80	A Modified Chronic Infection Model for Testing Treatment of Staphylococcus aureus Biofilms on Implants. PLoS ONE, 2014, 9, e103688.	2.5	30
81	Ultra-dense polymer brush coating reduces Staphylococcus epidermidis biofilms on medical implants and improves antibiotic treatment outcome. Acta Biomaterialia, 2018, 76, 46-55.	8.3	29
82	Pan-genome analysis of the genus Finegoldia identifies two distinct clades, strain-specific heterogeneity, and putative virulence factors. Scientific Reports, 2018, 8, 266.	3.3	28
83	Extracellular DNA Contributes to Dental Biofilm Stability. Caries Research, 2017, 51, 436-442.	2.0	27
84	Nitrification and Denitrification near a Soilâ€“Manure Interface Studied with a Nitrateâ€Nitrite Biosensor. Soil Science Society of America Journal, 2002, 66, 498-506.	2.2	26
85	Safe and Effective Ag Nanoparticles Immobilized Antimicrobial NanoNonwovens. Advanced Engineering Materials, 2012, 14, B240.	3.5	26
86	Mixed poly (ethylene glycol) and oligo (ethylene glycol) layers on gold as nonfouling surfaces created by backfilling. Biointerphases, 2011, 6, 180-188.	1.6	25
87	The Immunomodulatory Drug Glatiramer Acetate is Also an Effective Antimicrobial Agent that Kills Gram-negative Bacteria. Scientific Reports, 2017, 7, 15653.	3.3	25
88	Surface adhesins and exopolymers of selected foodborne pathogens. Microbiology (United Kingdom), 2014, 160, 2561-2582.	1.8	23
89	Cell wall associated protein TasA provides an initial binding component to extracellular polysaccharides in dual-species biofilm. Scientific Reports, 2018, 8, 9350.	3.3	23
90	Osteopontin Reduces Biofilm Formation in a Multi-Species Model of Dental Biofilm. PLoS ONE, 2012, 7, e41534.	2.5	23

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91	Binary combination of epsilon-poly-l-lysine and isoeugenol affect progression of spoilage microbiota in fresh turkey meat, and delay onset of spoilage in Pseudomonas putida challenged meat. International Journal of Food Microbiology, 2015, 215, 131-142.	4.7	22
92	Surface Physicochemistry and Ionic Strength Affects eDNAâ€™s Role in Bacterial Adhesion to Abiotic Surfaces. PLoS ONE, 2014, 9, e105033.	2.5	22
93	Bacterial adhesion to stainless steel is reduced by aqueous fish extract coatings. Biofilms, 2006, 3, 25-36.	0.6	21
94	Comparison of bacterial cells and amine-functionalized abiotic surfaces as support for Pd nanoparticle synthesis. Colloids and Surfaces B: Biointerfaces, 2013, 102, 898-904.	5.0	19
95	Hydrophilic Polymer Brush Layers on Stainless Steel Using Multilayered ATRP Initiator Layer. ACS Applied Materials & Interfaces, 2016, 8, 30616-30627.	8.0	18
96	Antibacterial isoeugenol coating on stainless steel and polyethylene surfaces prevents biofilm growth. Journal of Applied Microbiology, 2018, 124, 179-187.	3.1	17
97	Combatting implant-associated biofilms through localized drug synthesis. Journal of Controlled Release, 2018, 287, 94-102.	9.9	17
98	Antifouling properties of layer by layer DNA coatings. Biofouling, 2019, 35, 75-88.	2.2	16
99	Effect of Osteopontin on the Initial Adhesion of Dental Bacteria. Journal of Natural Products, 2012, 75, 2108-2112.	3.0	15
100	Optimizing the surface density of polyethylene glycol chains by grafting from binary solvent mixtures. Applied Surface Science, 2015, 341, 134-141.	6.1	15
101	Aptamer-Targeted Drug Delivery for Staphylococcus aureus Biofilm. Frontiers in Cellular and Infection Microbiology, 2022, 12, 814340.	3.9	15
102	Tunable 3D and 2D polystyrene nanoparticle assemblies using surface wettability, low volume fraction and surfactant effects. Nanotechnology, 2009, 20, 025604.	2.6	14
103	Streptokinase Treatment Reverses Biofilm-Associated Antibiotic Resistance in Staphylococcus aureus. Microorganisms, 2016, 4, 36.	3.6	14
104	Polycaprolactone-gelatin nanofibers incorporated with dual antibiotic-loaded carboxyl-modified silica nanoparticles. Journal of Materials Science, 2020, 55, 17134-17150.	3.7	14
105	Preventing Protein Adsorption from a Range of Surfaces Using an Aqueous Fish Protein Extract. Biomacromolecules, 2009, 10, 2759-2766.	5.4	12
106	Hyperbaric Oxygen Therapy is Ineffective as an Adjuvant to Daptomycin with Rifampicin Treatment in a Murine Model of Staphylococcus aureus in Implant-Associated Osteomyelitis. Microorganisms, 2017, 5, 21.	3.6	12
107	Evaluation of Surface-initiated Polymer brush as Anti-scaling Coating for Plate Heat Exchangers. Progress in Organic Coatings, 2019, 136, 105196.	3.9	12
108	Host factors abolish the need for polysaccharides and extracellular matrix-binding protein in Staphylococcus epidermidis biofilm formation. Journal of Medical Microbiology, 2021, 70, .	1.8	12

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109	The Bacterial Life Cycle in Textiles is Governed by Fiber Hydrophobicity. Microbiology Spectrum, 2021, 9, e0118521.	3.0	12
110	Osteopontin adsorption to Gram-positive cells reduces adhesion forces and attachment to surfaces under flow. Journal of Oral Microbiology, 2017, 9, 1379826.	2.7	11
111	Phenol-Soluble Modulins Modulate Persister Cell Formation in Staphylococcus aureus. Frontiers in Microbiology, 2020, 11, 573253.	3.5	11
112	Nitrification and Denitrification near a Soilâ€"Manure Interface Studied with a Nitrate-Nitrite Biosensor. Soil Science Society of America Journal, 2002, 66, 498.	2.2	11
113	Physicochemical characterization of fish protein adlayers with bacteria repelling properties. Colloids and Surfaces B: Biointerfaces, 2013, 102, 504-510.	5.0	10
114	Differences in Gene Expression Profiles between Early and Late Isolates in Monospecies Achromobacter Biofilm. Pathogens, 2017, 6, 20.	2.8	10
115	Calcium-phosphate-osteopontin particles for caries control. Biofouling, 2016, 32, 349-357.	2.2	8
116	Preclinical evaluation of potential infectionâ€imaging probe [⁶⁸Ga]<scp>Gaâ€ĐOTAâ€Kâ€A9</scp> in sterile and infectious inflammation. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 780-795.	1.0	8
117	Effect of DNase treatment on adhesion and early biofilm formation of Enterococcus faecalis. European Endodontic Journal, 2018, 3, 82-86.	0.6	8
118	Innate glycosidic activity in metallic implants for localized synthesis of antibacterial drugs. Chemical Communications, 2019, 55, 443-446.	4.1	7
119	Human Fibrinogen Inhibits Amyloid Assembly of Most Phenol-Soluble Modulins from Staphylococcus aureus. ACS Omega, 2021, 6, 21960-21970.	3.5	6
120	Quantification of Bacteria on Abiotic Surfaces by Laser Scanning Cytometry. Journal of the Association for Laboratory Automation, 2012, 17, 293-301.	2.8	5
121	Identification and Directed Development of Nonâ€Organic Catalysts with Apparent Panâ€Enzymatic Mimicry into Nanozymes for Efficient Prodrug Conversion. Angewandte Chemie, 2019, 131, 284-288.	2.0	5
122	Integration of titrimetric measurement, off-gas analysis and NOxâ˜ biosensors to investigate the complexity of denitrification processes. Water Science and Technology, 2004, 50, 135-141.	2.5	4
123	Big Bad Biofilms: How Communities of Bacteria Cause Long-Term Infections. Frontiers for Young Minds, 2016, 4, .	0.8	3
124	Distribution of extracellular DNA in Listeria monocytogenes biofilm. Czech Journal of Food Sciences, 2019, 37, 409-416.	1.2	3
125	Genome Sequence of Staphylococcus epidermidis AUH4567, a Clinical Isolate from an Infected Central Venous Catheter. Microbiology Resource Announcements, 2021, 10, .	0.6	2
126	The giant staphylococcal protein Embp facilitates colonization of surfaces through Velcro-like attachment to fibrillated fibronectin. ELife, 0, 11, .	6.0	2

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127	Draft Genome Sequence of Bacillus sp. FMQ74, a Dairy-Contaminating Isolate from Raw Milk. Genome Announcements, 2017, 5, .	0.8	0