Anne Mai-Prochnow

List of Publications by Year
in descending order

33 papers	2,302 citations	331670 21 h-index	414414 32 g-index
35 all docs	35 docs citations	35 times ranked	2880 citing authors

#	Article	IF	Citations
1	Gram positive and Gram negative bacteria differ in their sensitivity to cold plasma. Scientific Reports, 2016, 6, 38610.	3.3	435
2	Plasma-activated water: generation, origin of reactive species and biological applications. Journal Physics D: Applied Physics, 2020, 53, 303001.	2.8	314
3	Atmospheric pressure plasmas: Infection control and bacterial responses. International Journal of Antimicrobial Agents, 2014, 43, 508-517.	2.5	208
4	â€˜Big things in small packages: the genetics of filamentous phage and effects on fitness of their hostâ€™. FEMS Microbiology Reviews, 2015, 39, 465-487.	8.6	140
5	Analysis of the Pseudoalteromonas tunicata Genome Reveals Properties of a Surface-Associated Life Style in the Marine Environment. PLoS ONE, 2008, 3, e3252.	2.5	126
6	Biofilm Development and Cell Death in the Marine Bacterium Pseudoalteromonas tunicata. Applied and Environmental Microbiology, 2004, 70, 3232-3238.	3.1	120
7	Hydrogen Peroxide Linked to Lysine Oxidase Activity Facilitates Biofilm Differentiation and Dispersal in Several Gram-Negative Bacteria. Journal of Bacteriology, 2008, 190, 5493-5501.	2.2	119
8	Interactions of plasma-activated water with biofilms: inactivation, dispersal effects and mechanisms of action. Npj Biofilms and Microbiomes, 2021, 7, 11.	6.4	88
9	Cold plasma treatment for cotton seed germination improvement. Scientific Reports, 2018, 8, 14372.	3.3	82
10	Plasmacatalytic bubbles using CeO2 for organic pollutant degradation. Chemical Engineering Journal, 2021, 403, 126413.	12.7	79
11	Ecological Advantages of Autolysis during the Development and Dispersal of Pseudoalteromonas tunicata Biofilms. Applied and Environmental Microbiology, 2006, 72, 5414-5420.	3.1	77
12	Underwater microplasma bubbles for efficient and simultaneous degradation of mixed dye pollutants. Science of the Total Environment, 2021, 750, 142295.	8.0	62
13	Pseudomonas aeruginosa Biofilm Response and Resistance to Cold Atmospheric Pressure Plasma Is Linked to the Redox-Active Molecule Phenazine. PLoS ONE, 2015, 10, e0130373.	2.5	61
14	Dual-layered nanocomposite membrane incorporating graphene oxide and halloysite nanotube for high osmotic power density and fouling resistance. Journal of Membrane Science, 2018, 564, 382-393.	8.2	43
15	Degradation of cefixime antibiotic in water by atmospheric plasma bubbles: Performance, degradation pathways and toxicity evaluation. Chemical Engineering Journal, 2021, 421, 127730.	12.7	42
16	Sustainable plasma-catalytic bubbles for hydrogen peroxide synthesis. Green Chemistry, 2021, 23, 2977-2985.	9.0	42
17	The effects of plasma treatment on bacterial biofilm formation on vertically-aligned carbon nanotube arrays. RSC Advances, 2015, 5, 5142-5148.	3.6	37
18	Environmental cues and genes involved in establishment of the superinfective Pf4 phage of Pseudomonas aeruginosa. Frontiers in Microbiology, 2014, 5, 654.	3.5	28

#	Article	IF	Citations
19	Hybrid graphite filmâ€“carbon nanotube platform for enzyme immobilization and protection. Carbon, 2013, 65, 287-295.	10.3	25
20	In-package plasma: From reactive chemistry to innovative food preservation technologies. Trends in Food Science and Technology, 2022, 120, 59-74.	15.1	24
21	Draft Genome Sequence of Pseudomonas aeruginosa ATCC 9027 (DSM 1128), an Important Rhamnolipid Surfactant Producer and Sterility Testing Strain. Genome Announcements, 2015, 3, .	0.8	22
22	Microbial decontamination of chicken using atmospheric plasma bubbles. Plasma Processes and Polymers, 2021, 18, .	3.0	22
23	The antimicrobial efficacy of plasma-activated water against Listeria and E. coli is modulated by reactor design and water composition. Journal of Applied Microbiology, 2022, 132, 2490-2500.	3.1	20
24	Novel biomaterials: plasma-enabled nanostructures and functions. Journal Physics D: Applied Physics, 2016, 49, 273001.	2.8	15
25	Inactivation of foodborne viruses: Opportunities for cold atmospheric plasma. Trends in Food Science and Technology, 2022, 124, 323-333.	15.1	15
26	Surface plasma discharges for the preservation of fresh-cut apples: microbial inactivation and quality attributes. Journal Physics D: Applied Physics, 2020, 53, 174003.	2.8	13
27	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. Scientific Reports, 2015, 5, 13379.	3.3	10
28	Plasma treatment for next-generation nanobiointerfaces. Biointerphases, 2015, 10, 029405.	1.6	9
29	Designing Hydrogel-Modified Cellulose Triacetate Membranes with High Flux and Solute Selectivity for Forward Osmosis. Industrial & Engineering Chemistry Research, 2020, 59, 20845-20853.	3.7	8
30	Cold plasma effect on the proteome of Pseudomonas aeruginosa â€" Role for bacterioferritin. PLoS ONE, 2018, 13, e0206530.	2.5	6
31	Cold plasma to control biofilms on food and in the food-processing environment. , 2020, , 109-143.		4
32	Atmospheric air plasma induces increased cell aggregation during the formation of <i>Escherichia coli</i> biofilms. Plasma Processes and Polymers, 2018, 15, 1700212.	3.0	3
33	Hybrid Carbon-Based Nanostructured Platforms for the Advanced Bioreactors. Journal of Nanoscience and Nanotechnology, 2015, 15, 10074-10090.	0.9	2