Louise Carson

List of Publications by Year
in descending order

19 papers	797 citations	840776 11 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	1307 citing authors

#	Article	IF	Citations
1	A promising laser nitriding method for the design of next generation orthopaedic implants: Cytotoxicity and antibacterial performance of titanium nitride (TiN) wear nano-particles, and enhanced wear properties of laser-nitrided Ti6Al4V surfaces. Surface and Coatings Technology, 2021, 405, 126714.	4.8	24
2	The Vaginal Microbiota, Bacterial Biofilms and Polymeric Drug-Releasing Vaginal Rings. Pharmaceutics, 2021, 13, 751.	4.5	13
3	Evaluation of the in vitro cytotoxicity and modulation of the inflammatory response by the bioresorbable polymers poly(D,L-lactide-co-glycolide) and poly(L-lactide-co-glycolide). Acta Biomaterialia, 2021, 134, 261-275.	8.3	10
4	Infection-Triggered, Self-Cleaning Surfaces with On-Demand Cleavage of Surface-Localized Surfactant Moieties. ACS Biomaterials Science and Engineering, 2021, 7, 586-594.	5.2	2
5	Creating an antibacterial surface on beta TNZT alloys for hip implant applications by laser nitriding. Optics and Laser Technology, 2020, 121, 105793.	4.6	22
6	Titanium for Orthopedic Applications: An Overview of Surface Modification to Improve Biocompatibility and Prevent Bacterial Biofilm Formation. IScience, 2020, 23, 101745.	4.1	115
7	Optimization of anti-wear and anti-bacterial properties of beta TiNb alloy via controlling duty cycle in open-air laser nitriding. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103913.	3.1	9
8	Atmospheric pressure non-thermal plasma exposure reduces Pseudomonas aeruginosa lipopolysaccharide toxicity in vitro and in vivo. Microbial Pathogenesis, 2019, 136, 103679.	2.9	3
9	Fibre Laser Treatment of Beta TNZT Titanium Alloys for Load-Bearing Implant Applications: Effects of Surface Physical and Chemical Features on Mesenchymal Stem Cell Response and Staphylococcus aureus Bacterial Attachment. Coatings, 2019, 9, 186.	2.6	15
10	Anti-Adherent Biomaterials for Prevention of Catheter Biofouling. International Journal of Pharmaceutics, 2018, 535, 420-427.	5.2	18
11	Fibre laser treatment of martensitic NiTi alloys for load-bearing implant applications: Effects of surface chemistry on inhibiting Staphylococcus aureus biofilm formation. Surface and Coatings Technology, 2018, 349, 488-502.	4.8	11
12	Enhancing the antibacterial performance of orthopaedic implant materials by fibre laser surface engineering. Applied Surface Science, 2017, 404, 67-81.	6.1	83
13	Optimization of singlet oxygen production from photosensitizerâ€incorporated, medically relevant hydrogels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 320-326.	3.4	16
14	An Infection-Responsive Approach To Reduce Bacterial Adhesion in Urinary Biomaterials. Molecular Pharmaceutics, 2016, 13, 2817-2822.	4.6	26
15	Photodynamic Antimicrobial Polymers for Infection Control. PLoS ONE, 2014, 9, e108500.	2.5	29
16	Comparison of the binding specificity of two bacterial metalloproteases, LasB of Pseudomonas aeruginosa and ZapA of Proteus mirabilis, using N-alpha mercaptoamide template-based inhibitor analogues. Biochemical and Biophysical Research Communications, 2012, 422, 316-320.	2.1	7
17	Comprehensive inhibitor profiling of the Proteus mirabilis metalloprotease virulence factor ZapA (mirabilysin). Biochimie, 2011, 93, 1824-1827.	2.6	6
18	The use of lytic bacteriophages in the prevention and eradication of biofilms ofProteus mirabilisandEscherichia coli. FEMS Immunology and Medical Microbiology, 2010, 59, 447-455.	2.7	139

#	Article	IF	Citations
19	Antibiofilm activities of 1-alkyl-3-methylimidazolium chloride ionic liquids. Green Chemistry, 2009, 11, 492.	9.0	249