Elena Ivanova

List of Publications by Year
in descending order

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305 papers	16,397 citations	23567 58 h-index	19749 117 g-index
315 all docs	315 docs citations	315 times ranked	16270 citing authors

#	Article	IF	Citations
1	Bacterial Extracellular Polysaccharides Involved in Biofilm Formation. Molecules, 2009, 14, 2535-2554.	3.8	859
2	Antibacterial surfaces: the quest for a new generation of biomaterials. Trends in Biotechnology, 2013, 31, 295-304.	9.3	805
3	Natural Bactericidal Surfaces: Mechanical Rupture of Pseudomonas aeruginosa Cells by Cicada Wings. Small, 2012, 8, 2489-2494.	10.0	742
4	Bactericidal activity of black silicon. Nature Communications, 2013, 4, 2838.	12.8	731
5	Plastic Degradation and Its Environmental Implications with Special Reference to Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.5	587
6	Biophysical Model of Bacterial Cell Interactions with Nanopatterned Cicada Wing Surfaces. Biophysical Journal, 2013, 104, 835-840.	0.5	496
7	The influence of nano-scale surface roughness on bacterial adhesion to ultrafine-grained titanium. Biomaterials, 2010, 31, 3674-3683.	11.4	379
8	Bacterial Retention on Superhydrophobic Titanium Surfaces Fabricated by Femtosecond Laser Ablation. Langmuir, 2011, 27, 3012-3019.	3.5	366
9	A review of the application of anodization for the fabrication of nanotubes on metal implant surfaces. Acta Biomaterialia, 2012, 8, 2875-2888.	8.3	359
10	Graphene Induces Formation of Pores That Kill Spherical and Rod-Shaped Bacteria. ACS Nano, 2015, 9, 8458-8467.	14.6	322
11	Surface topographical factors influencing bacterial attachment. Advances in Colloid and Interface Science, 2012, 179-182, 142-149.	14.7	285
12	Phylogenetic relationships among marine Alteromonas-like proteobacteria: emended description of the family Alteromonadaceae and proposal of Pseudoalteromonadaceae fam. nov., Colwelliaceae fam. nov., Shewanellaceae fam. nov., Moritellaceae fam. nov., Ferrimonadaceae fam. nov., Idiomarinaceae fam. nov. and Psychromonadaceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1773-1788.	1.7	271
13	Selective bactericidal activity of nanopatterned superhydrophobic cicada Psaltoda claripennis wing surfaces. Applied Microbiology and Biotechnology, 2013, 97, 9257-9262.	3.6	270
14	Nano-structured antimicrobial surfaces: From nature to synthetic analogues. Journal of Colloid and Interface Science, 2017, 508, 603-616.	9.4	268
15	Mechano-bactericidal actions of nanostructured surfaces. Nature Reviews Microbiology, 2021, 19, 8-22.	28.6	264
16	Plasma-assisted surface modification of organic biopolymers to prevent bacterial attachment. Acta Biomaterialia, 2011, 7, 2015-2028.	8.3	254
17	Antibacterial titanium nano-patterned arrays inspired by dragonfly wings. Scientific Reports, 2015, 5, 16817.	3.3	235
18	Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus Attachment Patterns on Glass Surfaces with Nanoscale Roughness. Current Microbiology, 2009, 58, 268-273.	2.2	220

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19	Efficient surface modification of biomaterial to prevent biofilm formation and the attachment of microorganisms. Applied Microbiology and Biotechnology, 2012, 95, 299-311.	3.6	198
20	Bio-inspired sustainable and durable superhydrophobic materials: from nature to market. Journal of Materials Chemistry A, 2019, 7, 16643-16670.	10.3	183
21	Impact of Nanoscale Roughness of Titanium Thin Film Surfaces on Bacterial Retention. Langmuir, 2010, 26, 1973-1982.	3.5	177
22	Impact of nanoâ€topography on bacterial attachment. Biotechnology Journal, 2008, 3, 536-544.	3.5	166
23	Cell response of anodized nanotubes on titanium and titanium alloys. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2726-2739.	4.0	159
24	Air-directed attachment of coccoid bacteria to the surface of superhydrophobic lotus-like titanium. Biofouling, 2012, 28, 539-550.	2.2	125
25	High Aspect Ratio Nanostructures Kill Bacteria via Storage and Release of Mechanical Energy. ACS Nano, 2018, 12, 6657-6667.	14.6	120
26	The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12598-12605.	7.1	119
27	Accelerated stem cell attachment to ultrafine grained titanium. Acta Biomaterialia, 2011, 7, 900-906.	8.3	114
28	Poly(ethylene terephthalate) Polymer Surfaces as a Substrate for Bacterial Attachment and Biofilm Formation. Microbes and Environments, 2009, 24, 39-42.	1.6	110
29	Surface modifications of nanocellulose: From synthesis to high-performance nanocomposites. Progress in Polymer Science, 2021, 119, 101418.	24.7	110
30	Bio-based routes to synthesize cyclic carbonates and polyamines precursors of non-isocyanate polyurethanes: A review. European Polymer Journal, 2019, 118, 668-684.	5.4	108
31	Influence of nanoscale topology on bactericidal efficiency of black silicon surfaces. Nanotechnology, 2017, 28, 245301.	2.6	106
32	Wettability of natural superhydrophobic surfaces. Advances in Colloid and Interface Science, 2014, 210, 58-64.	14.7	105
33	Sulfitobacter delicatus sp. nov. and Sulfitobacter dubius sp. nov., respectively from a starfish (Stellaster equestris) and sea grass (Zostera marina). International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 475-480.	1.7	104
34	The nature of inherent bactericidal activity: insights from the nanotopology of three species of dragonfly. Nanoscale, 2016, 8, 6527-6534.	5.6	104
35	Antibacterial Action of Nanoparticles by Lethal Stretching of Bacterial Cell Membranes. Advanced Materials, 2020, 32, e2005679.	21.0	102
36	Effect of ultrafine-grained titanium surfaces on adhesion of bacteria. Applied Microbiology and Biotechnology, 2009, 83, 925-937.	3.6	100

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37	â€œRace for the Surfaceâ€• Eukaryotic Cells Can Win. ACS Applied Materials & Interfaces, 2016, 8, 22025-22031.	8.0	95
38	Nanofabrication of mechano-bactericidal surfaces. Nanoscale, 2017, 9, 16564-16585.	5.6	91
39	Formosa algae gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 705-711.	1.7	89
40	Polyurethanes from seed oil-based polyols: A review of synthesis, mechanical and thermal properties. Industrial Crops and Products, 2019, 142, 111841.	5.2	89
41	Do bacteria differentiate between degrees of nanoscale surface roughness?. Biotechnology Journal, 2011, 6, 1103-1114.	3.5	86
42	Two Species of Culturable Bacteria Associated With Degradation of Brown Algae Fucus Evanescens. Microbial Ecology, 2002, 43, 242-249.	2.8	79
43	Bacterial Extracellular Polysaccharides. Advances in Experimental Medicine and Biology, 2011, 715, 213-226.	1.6	79
44	Comment on â€œBactericidal Effects of Natural Nanotopography of Dragonfly Wing on Escherichia coliâ€• ACS Applied Materials & Interfaces, 2017, 9, 29387-29393.	8.0	78
45	Differential attraction and repulsion of Staphylococcus aureus and Pseudomonas aeruginosa on molecularly smooth titanium films. Scientific Reports, 2011, 1, 165.	3.3	76
46	Specific Electromagnetic Effects of Microwave Radiation on Escherichia coli. Applied and Environmental Microbiology, 2011, 77, 3017-3022.	3.1	74
47	The susceptibility of Staphylococcus aureus CIP 65.8 and Pseudomonas aeruginosa ATCC 9721 cells to the bactericidal action of nanostructured Calopteryx haemorrhoidalis damselfly wing surfaces. Applied Microbiology and Biotechnology, 2017, 101, 4683-4690.	3.6	71
48	Marinobacter excellens sp. nov., isolated from sediments of the Sea of Japan. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 2073-2078.	1.7	69
49	Cellular Fatty Acids of Alteromonas Species. Systematic and Applied Microbiology, 1995, 18, 37-43.	2.8	68
50	Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency. Nano-Micro Letters, 2018, 10, 36.	27.0	68
51	Roughness Parameters for Standard Description of Surface Nanoarchitecture. Scanning, 2012, 34, 257-263.	1.5	65
52	Multi-directional electrodeposited gold nanospikes for antibacterial surface applications. Nanoscale Advances, 2019, 1, 203-212.	4.6	65
53	Dual role of outer epicuticular lipids in determining the wettability of dragonfly wings. Colloids and Surfaces B: Biointerfaces, 2013, 106, 126-134.	5.0	64
54	Plasma-Enhanced Synthesis of Bioactive Polymeric Coatings from Monoterpene Alcohols: A Combined Experimental and Theoretical Study. Biomacromolecules, 2010, 11, 2016-2026.	5.4	63

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55	Robust and Eco-Friendly Superhydrophobic Starch Nanohybrid Materials with Engineered Lotus Leaf Mimetic Multiscale Hierarchical Structures. ACS Applied Materials & Interfaces, 2021, 13, 36558-36573.	8.0	63
56	Low-Molecular-Weight, Biologically Active Compounds from Marine Pseudoalteromonas Species. Current Microbiology, 2004, 48, 441-6.	2.2	62
57	Differences in colonisation of five marine bacteria on two types of glass surfaces. Biofouling, 2009, 25, 621-631.	2.2	62
58	The Effect of Polyterpenol Thin Film Surfaces on Bacterial Viability and Adhesion. Polymers, 2011, 3, 388-404.	4.5	62
59	Mechano-Bactericidal Titanium Surfaces for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2020, 12, 48272-48283.	8.0	62
60	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly Hemianax papuensis Wing Epicuticle. PLoS ONE, 2013, 8, e67893.	2.5	61
61	Polycrystalline Diamond Coating of Additively Manufactured Titanium for Biomedical Applications. ACS Applied Materials & Interfaces, 2018, 10, 8474-8484.	8.0	61
62	Engineering the Interface: Nanodiamond Coating on 3D-Printed Titanium Promotes Mammalian Cell Growth and Inhibits Staphylococcus aureus Colonization. ACS Applied Materials & Interfaces, 2019, 11, 24588-24597.	8.0	60
63	Physico-mechanical characterisation of cells using atomic force microscopy â€" Current research and methodologies. Journal of Microbiological Methods, 2011, 86, 131-139.	1.6	59
64	Nature Inspired Structured Surfaces for Biomedical Applications. Current Medicinal Chemistry, 2011, 18, 3367-3375.	2.4	59
65	Natural Insect and Plant Micro-/Nanostructsured Surfaces: An Excellent Selection of Valuable Templates with Superhydrophobic and Self-Cleaning Properties. Molecules, 2014, 19, 13614-13630.	3.8	59
66	Evaluation of Phospholipid and Fatty Acid Compositions as Chemotaxonomic Markers of Alteromonas -Like Proteobacteria. Current Microbiology, 2000, 41, 341-345.	2.2	56
67	Pseudoalteromonas issachenkonii sp. nov., a bacterium that degrades the thallus of the brown alga Fucus evanescens.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 229-234.	1.7	56
68	Review of the specific effects of microwave radiation on bacterial cells. Applied Microbiology and Biotechnology, 2012, 96, 319-325.	3.6	55
69	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. Langmuir, 2012, 28, 17404-17409.	3.5	55
70	Switchable Dual-Function and Bioresponsive Materials to Control Bacterial Infections. ACS Applied Materials & Interfaces, 2019, 11, 22897-22914.	8.0	55
71	Pseudoalteromonas maricaloris sp. nov., isolated from an Australian sponge, and reclassification of [Pseudoalteromonas aurantia] NCIMB 2033 as Pseudoalteromonas flavipulchra sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 263-271.	1.7	55
72	Shewanella pacifica sp. nov., a polyunsaturated fatty acid-producing bacterium isolated from sea water. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1083-1087.	1.7	54

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73	Granulosicoccus coccoides sp. nov., isolated from leaves of seagrass (Zostera marina). International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 972-976.	1.7	54
74	Shewanella fidelis sp. nov., isolated from sediments and sea water. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 577-582.	1.7	51
75	Loktanella agnita sp. nov. and Loktanella rosea sp. nov., from the north-west Pacific Ocean. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 2203-2207.	1.7	51
76	Tunable morphological changes of asymmetric titanium nanosheets with bactericidal properties. Journal of Colloid and Interface Science, 2020, 560, 572-580.	9.4	51
77	Chemically non-perturbing SERS detection of a catalytic reaction with black silicon. Nanoscale, 2018, 10, 9780-9787.	5.6	50
78	Mechanical inactivation of Staphylococcus aureus and Pseudomonas aeruginosa by titanium substrata with hierarchical surface structures. Materialia, 2019, 5, 100197.	2.7	50
79	Electrospun Nanodiamondâ€“Silk Fibroin Membranes: A Multifunctional Platform for Biosensing and Wound-Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 48408-48419.	8.0	50
80	Erythrobacter vulgaris sp. nov., a novel organism isolated from the marine invertebrates. Systematic and Applied Microbiology, 2005, 28, 123-130.	2.8	49
81	Pseudoalteromonas ruthenica sp. nov., isolated from marine invertebrates.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 235-240.	1.7	46
82	Alteromonas addita sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1065-1068.	1.7	46
83	Shewanella waksmanii sp. nov., isolated from a sipuncula (Phascolosoma japonicum). International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 1471-1477.	1.7	45
84	Nanotopography as a trigger for the microscale, autogenous and passive lysis of erythrocytes. Journal of Materials Chemistry B, 2014, 2, 2819-2826.	5.8	45
85	Genomes of Alteromonas australica,a world apart. BMC Genomics, 2014, 15, 483.	2.8	45
86	ATP level variations in heterotrophic bacteria during attachment on hydrophilic and hydrophobic surfaces. International Microbiology, 2006, 9, 37-46.	2.4	45
87	Ecophysiological diversity of a novel member of the genus Alteromonas, and description of Alteromonas mediterranea sp. nov.. Antonie Van Leeuwenhoek, 2015, 107, 119-132.	1.7	44
88	Yeast-based self-organized hybrid bio-silica solâ€“gels for the design of biosensors. Biosensors and Bioelectronics, 2015, 67, 321-326.	10.1	44
89	A bactericidal microfluidic device constructed using nano-textured black silicon. RSC Advances, 2016, 6, 26300-26306.	3.6	44
90	Functional nanomaterials, synergisms, and biomimicry for environmentally benign marine antifouling technology. Materials Horizons, 2021, 8, 3201-3238.	12.2	44

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91	Retrieval of the species Alteromonas tetraodonis Simidu et al. 1990 as Pseudoalteromonas tetraodonis comb. nov. and emendation of description.. International Journal of Systematic and Evolutionary Microbiology, 2001, 51, 1071-1078.	1.7	43
92	Mechano-bactericidal mechanism of graphene nanomaterials. Interface Focus, 2018, 8, 20170060.	3.0	43
93	Characterization of Pseudoalteromonas distincta-like sea-water isolates and description of Pseudoalteromonas aliena sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1431-1437.	1.7	42
94	Bactericidal activity of self-assembled palmitic and stearic fatty acid crystals on highly ordered pyrolytic graphite. Acta Biomaterialia, 2017, 59, 148-157.	8.3	42
95	Plasma and Polymers: Recent Progress and Trends. Molecules, 2021, 26, 4091.	3.8	42
96	Nanostructured Antireflective and Thermoisolative Cicada Wings. Langmuir, 2016, 32, 4698-4703.	3.5	41
97	The influence of nanoscopically thin silver films on bacterial viability and attachment. Applied Microbiology and Biotechnology, 2011, 91, 1149-1157.	3.6	40
98	Statistically quantified measurement of an Alzheimer's marker by surface-enhanced Raman scattering. Journal of Biophotonics, 2015, 8, 567-574.	2.3	40
99	Fresnel incoherent correlation holography with single camera shot. Opto-Electronic Advances, 2020, 3, 200004-200004.	13.3	40
100	The Structural Diversity of Carbohydrate Antigens of Selected Gram-Negative Marine Bacteria. Marine Drugs, 2011, 9, 1914-1954.	4.6	40
101	Ecophysiological Variabilities in Ectohydrolytic Enzyme Activities of Some Pseudoalteromonas Species, P. citrea, P. issachenkonii , and P. nigrifaciens. Current Microbiology, 2003, 46, 6-10.	2.2	39
102	Marinobacter salarius sp. nov. and Marinobacter similis sp. nov., Isolated from Sea Water. PLoS ONE, 2014, 9, e106514.	2.5	39
103	Outsmarting superbugs: bactericidal activity of nanostructured titanium surfaces against methicillin- and gentamicin-resistantStaphylococcus aureusATCC 33592. Journal of Materials Chemistry B, 2019, 7, 4424-4431.	5.8	39
104	Shewanella affinis sp. nov., isolated from marine invertebrates. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1089-1093.	1.7	38
105	Bacillus algicola sp. nov., a Novel Filamentous Organism Isolated From Brown Alga Fucus evanescens. Systematic and Applied Microbiology, 2004, 27, 301-307.	2.8	38
106	Marinomonas pontica sp. nov., isolated from the Black Sea. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 275-279.	1.7	38
107	Winogradskyella exilis sp. nov., isolated from the starfish Stellaster equestris, and emended description of the genus Winogradskyella. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 1577-1580.	1.7	38
108	The Family Methylocystaceae. , 2014, , 341-347.		38

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109	Alteromonas australica sp. nov., isolated from the Tasman Sea. Antonie Van Leeuwenhoek, 2013, 103, 877-884.	1.7	37
110	Single shot multispectral multidimensional imaging using chaotic waves. Scientific Reports, 2020, 10, 13902.	3.3	36
111	Staleya guttiformis attachment on poly(tert-butylmethacrylate) polymeric surfaces. Micron, 2008, 39, 1197-1204.	2.2	35
112	Role of topological scale in the differential fouling of Pseudomonas aeruginosa and Staphylococcus aureus bacterial cells on wrinkled gold-coated polystyrene surfaces. Nanoscale, 2018, 10, 5089-5096.	5.6	35
113	Brevibacterium celere sp. nov., isolated from degraded thallus of a brown alga. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 2107-2111.	1.7	34
114	Simulations of Protein Adsorption on Nanostructured Surfaces. Scientific Reports, 2019, 9, 4694.	3.3	34
115	The Fate of Osteoblast-Like MG-63 Cells on Pre-Infected Bactericidal Nanostructured Titanium Surfaces. Materials, 2019, 12, 1575.	2.9	33
116	Critical Review of Nanopillar-Based Mechanobactericidal Systems. ACS Applied Nano Materials, 2022, 5, 1-17.	5.0	33
117	Salegentibacter flavus sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 583-586.	1.7	32
118	Pseudoalteromonas translucida sp. nov. and Pseudoalteromonas paragorgicola sp. nov., and emended description of the genus.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 1759-1766.	1.7	32
119	Bacterial attachment on sub-nanometrically smooth titanium substrata. Biofouling, 2013, 29, 163-170.	2.2	31
120	Synthesis of green hybrid materials using starch and non-isocyanate polyurethanes. Carbohydrate Polymers, 2020, 229, 115535.	10.2	31
121	Polymer Microstructures Fabricated via Laser Ablation Used for Multianalyte Protein Microassay. Langmuir, 2002, 18, 9539-9546.	3.5	30
122	Occurrence and Diversity of Mesophilic Shewanella Strains Isolated from the North-West Pacific Ocean. Systematic and Applied Microbiology, 2003, 26, 293-301.	2.8	30
123	Celeribacter neptunius gen. nov., sp. nov., a new member of the class Alphaproteobacteria. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 1620-1625.	1.7	30
124	The Effect of Coatings and Nerve Growth Factor on Attachment and Differentiation of Pheochromocytoma Cells. Materials, 2018, 11, 60.	2.9	30
125	Effect of titanium surface topography on plasma deposition of antibacterial polymer coatings. Applied Surface Science, 2020, 521, 146375.	6.1	29
126	18â€‰GHz electromagnetic field induces permeability of Gram-positive cocci. Scientific Reports, 2015, 5, 10980.	3.3	28

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127	Towards antiviral polymer composites to combat COVIDâ€19 transmission. Nano Select, 2021, 2, 2061-2071.	3.7	28
128	Adsorption of Human Plasma Albumin and Fibronectin onto Nanostructured Black Silicon Surfaces. Langmuir, 2016, 32, 10744-10751.	3.5	27
129	Antifungal versus antibacterial defence of insect wings. Journal of Colloid and Interface Science, 2021, 603, 886-897.	9.4	27
130	Pseudomonas extremorientalis sp. nov., isolated from a drinking water reservoir.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 2113-2120.	1.7	27
131	Multifunctional cold spray coatings for biological and biomedical applications: A review. Progress in Surface Science, 2022, 97, 100654.	8.3	27
132	Controlling production of brominated cyclic depsipeptides by Pseudoalteromonas maricaloris KMM 636T. Letters in Applied Microbiology, 2005, 40, 243-248.	2.2	26
133	Inner-shell chemical shift of DNA/RNA bases and inheritance from their parent purine and pyrimidine. Journal of Synchrotron Radiation, 2008, 15, 624-631.	2.4	26
134	Pseudomonas brassicacearum subsp. neoaurantiaca subsp. nov., orange-pigmented bacteria isolated from soil and the rhizosphere of agricultural plants. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 2476-2481.	1.7	26
135	The Bioeffects Resulting from Prokaryotic Cells and Yeast Being Exposed to an 18 GHz Electromagnetic Field. PLoS ONE, 2016, 11, e0158135.	2.5	26
136	The idiosyncratic self-cleaning cycle of bacteria on regularly arrayed mechano-bactericidal nanostructures. Nanoscale, 2019, 11, 16455-16462.	5.6	26
137	3D printed polarizing grids for IR-THz synchrotron radiation. Journal of Optics (United Kingdom), 2018, 20, 035101.	2.2	25
138	Structure of the capsular polysaccharide from Alteromonas sp. CMM 155. Carbohydrate Research, 1995, 275, 147-154.	2.3	24
139	Development of a Microwave Treatment Technique for Bacterial Decontamination of Raw Meat. International Journal of Food Engineering, 2008, 4, .	1.5	24
140	A time and cost efficient approach to functional and structural assessment of living neuronal tissue. Journal of Neuroscience Methods, 2013, 214, 105-112.	2.5	24
141	High-spatial-resolution mapping of superhydrophobic cicada wing surface chemistry using infrared microspectroscopy and infrared imaging at two synchrotron beamlines. Journal of Synchrotron Radiation, 2013, 20, 482-489.	2.4	24
142	Use of Synergistic Interactions to Fabricate Transparent and Mechanically Robust Nanohybrids Based on Starch, Non-Isocyanate Polyurethanes, and Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 47865-47878.	8.0	24
143	Evaluation of Current Molecular Approaches for Genotyping ofCampylobacter jejuniStrains. Foodborne Pathogens and Disease, 2012, 9, 375-385.	1.8	23
144	Programmed Death of Injured Pseudomonas aeruginosa on Mechano-Bactericidal Surfaces. Nano Letters, 2022, 22, 1129-1137.	9.1	23

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145	Presence of Ecophysiologically Diverse Populations within Cobetia marina Strains Isolated from Marine Invertebrate, Algae and the Environments. Microbes and Environments, 2005, 20, 200-207.	1.6	22
146	Oceanimonas smirnovii sp. nov., a novel organism isolated from the Black Sea. Systematic and Applied Microbiology, 2005, 28, 131-136.	2.8	22
147	Natural polymer biomaterials: advanced applications. , 2014, , 32-70.		22
148	Self-organised nanoarchitecture of titanium surfaces influences the attachment of Staphylococcus aureus and Pseudomonas aeruginosa bacteria. Applied Microbiology and Biotechnology, 2015, 99, 6831-6840.	3.6	22
149	Nanostructured antibacterial surfaces â€“ What can be achieved?. Nano Today, 2022, 43, 101404.	11.9	22
150	The complete structure of the lipooligosaccharide from the halophilic bacterium Pseudoalteromonas issachenkonii KMM 3549T. Carbohydrate Research, 2004, 339, 1985-1993.	2.3	21
151	Biodegradation of novel bioplastics made of starch, polyhydroxyurethanes and cellulose nanocrystals in soil environment. Science of the Total Environment, 2022, 815, 152684.	8.0	21
152	Structure of the capsular polysaccharide from Alteromonas nigrifaciens IAM 13010T containing 2-acetamido-2,6-dideoxy-l-talose and 3-deoxy-d-manno-octulosonic acid. Carbohydrate Research, 1997, 299, 69-76.	2.3	20
153	Poly(l-lysine)-mediated immobilisation of oligonucleotides on carboxy-rich polymer surfaces. Biosensors and Bioelectronics, 2004, 19, 1363-1370.	10.1	20
154	Complete Structural Elucidation of a Novel Lipooligosaccharide from the Outer Membrane of the Marine BacteriumShewanella pacifica. European Journal of Organic Chemistry, 2005, 2005, 2281-2291.	2.4	20
155	A comparative study between the adsorption and covalent binding of human immunoglobulin and lysozyme on surface-modified poly(tert -butyl methacrylate). Biomedical Materials (Bristol), 2006, 1, 24-32.	3.3	20
156	The Genus Alteromonas and Related Proteobacteria. , 2006, , 597-645.		20
157	A New Sterilization Technique of Bovine Pericardial Biomaterial Using Microwave Radiation. Tissue Engineering - Part C: Methods, 2009, 15, 445-454.	2.1	20
158	PC 12 Pheochromocytoma Cell Response to Super High Frequency Terahertz Radiation from Synchrotron Source. Cancers, 2019, 11, 162.	3.7	20
159	Imaging the air-water interface: Characterising biomimetic and natural hydrophobic surfaces using in situ atomic force microscopy. Journal of Colloid and Interface Science, 2019, 536, 363-371.	9.4	20
160	Positive and Negative Tone Protein Patterning on a Photobase Generating Polymer. Langmuir, 2003, 19, 446-452.	3.5	19
161	Structure of an acidic polysaccharide from the agar-decomposing marine bacterium Pseudoalteromonas atlantica strain IAM 14165 containing 5,7-diacetamido-3,5,7,9-tetradeoxy-l-glycero-l-manno-non-2-ulosonic acid. Carbohydrate Research, 2005, 340, 69-74.	2.3	19
162	Bacterial attachment on optical fibre surfaces. Biofouling, 2010, 26, 461-470.	2.2	19

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163	Metallic biomaterials: types and advanced applications. , 2014, , 121-147.		19
164	Pillars of Life: Is There a Relationship between Lifestyle Factors and the Surface Characteristics of Dragonfly Wings?. ACS Omega, 2018, 3, 6039-6046.	3.5	19
165	Lensless Three-Dimensional Quantitative Phase Imaging Using Phase Retrieval Algorithm. Journal of Imaging, 2020, 6, 99.	3.0	19
166	Detection of coccoid forms ofSulfitobacter mediterraneususing atomic force microscopy. FEMS Microbiology Letters, 2002, 214, 177-181.	1.8	18
167	Plasma-potentiated small moleculesâ€"possible alternative to antibiotics?. Nano Futures, 2017, 1, 025002.	2.2	18
168	Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings. Langmuir, 2019, 35, 2422-2430.	3.5	18
169	Nanopillar Polymer Films as Antibacterial Packaging Materials. ACS Applied Nano Materials, 2022, 5, 2578-2591.	5.0	18
170	Feasibility of using carboxylic-rich polymeric surfaces for the covalent binding of oligonucleotides for microPCR applications. Smart Materials and Structures, 2002, 11, 783-791.	3.5	17
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