Stefano Perni

List of Publications by Year
in descending order

79 papers	3,210 citations	136950 32 h-index	155660 55 g-index
83 all docs	83 docs citations	83 times ranked	4467 citing authors

#	Article	IF	Citations
1	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. Biomaterials, 2009, 30, 89-93.	11.4	231
2	Nanoparticles: their potential use in antibacterial photodynamic therapy. Photochemical and Photobiological Sciences, 2011, 10, 712-720.	2.9	173
3	Cold Atmospheric Plasma Decontamination of the Pericarps of Fruit. Journal of Food Protection, 2008, 71, 302-308.	1.7	153
4	Probing bactericidal mechanisms induced by cold atmospheric plasmas withEscherichia colimutants. Applied Physics Letters, 2007, 90, 073902.	3.3	147
5	Effects of cell surface loading and phase of growth in cold atmospheric gas plasma inactivation of Escherichia coli K12. Journal of Applied Microbiology, 2006, 101, 1323-1330.	3.1	135
6	Cold Atmospheric Plasma Disinfection of Cut Fruit Surfaces Contaminated with Migrating Microorganisms. Journal of Food Protection, 2008, 71, 1619-1625.	1.7	128
7	Silver nanoparticle based antibacterial methacrylate hydrogels potential for bone graft applications. Materials Science and Engineering C, 2015, 50, 332-340.	7.3	97
8	Surface Roughness Mediated Adhesion Forces between Borosilicate Glass and Gram-Positive Bacteria. Langmuir, 2014, 30, 9466-9476.	3.5	91
9	Antimicrobial activity of methylene blue and toluidine blue O covalently bound to a modified silicone polymer surface. Journal of Materials Chemistry, 2009, 19, 6167.	6.7	83
10	Success and failure of colloidal approaches in adhesion of microorganisms to surfaces. Advances in Colloid and Interface Science, 2014, 206, 265-274.	14.7	78
11	Estimating the maximum growth rate from microbial growth curves: definition is everything. Food Microbiology, 2005, 22, 491-495.	4.2	76
12	Occurrence and persistence of Listeria spp. in the environment of ewe and cow's milk cheese dairies in Portugal unveiled by an integrated analysis of identification, typing and spatialâ€“temporal mapping along production cycle. International Journal of Food Microbiology, 2007, 116, 52-63.	4.7	67
13	Marked intra-strain variation in response of Listeria monocytogenes dairy isolates to acid or salt stress and the effect of acid or salt adaptation on adherence to abiotic surfaces. International Journal of Food Microbiology, 2008, 123, 142-150.	4.7	62
14	Antibacterial Activity of Light-Activated Silicone Containing Methylene Blue and Gold Nanoparticles of Different Sizes. Journal of Cluster Science, 2010, 21, 427-438.	3.3	62
15	Incorporation of methylene blue and nanogold into polyvinyl chloride catheters; a new approach for light-activated disinfection of surfaces. Journal of Materials Chemistry, 2012, 22, 15388.	6.7	62
16	A novel bone cement impregnated with silver–tiopronin nanoparticles: its antimicrobial, cytotoxic, and mechanical properties. International Journal of Nanomedicine, 2013, 8, 2227.	6.7	62
17	Toluidine blue-containing polymers exhibit potent bactericidal activity when irradiated with red laser light. Journal of Materials Chemistry, 2009, 19, 2715.	6.7	59
18	Biogenic synthesis of antimicrobial silver nanoparticles capped with l-cysteine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 219-224.	4.7	58

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19	Characterization of cellulose based sponges for wound dressings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 336-342.	4.7	58
20	Listeria monocytogenes Biofilm-Associated Protein (BapL) May Contribute to Surface Attachment of L. monocytogenes but Is Absent from Many Field Isolates. Applied and Environmental Microbiology, 2008, 74, 5451-5456.	3.1	57
21	Visible light photocatalystsâ€"N-doped TiO2 by solâ€“gel, enhanced with surface bound silver nanoparticle islands. Journal of Materials Chemistry, 2011, 21, 11854.	6.7	56
22	Multiasperity Contact Adhesion Model for Universal Asperity Height and Radius of Curvature Distributions. Langmuir, 2010, 26, 17028-17036.	3.5	54
23	Comparison of JKR- and DMT-based multi-asperity adhesion model: Theory and experiment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 383, 95-101.	4.7	53
24	Potent antimicrobial activity of bone cement encapsulating silver nanoparticles capped with oleic acid. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 273-281.	3.4	52
25	Poly-beta-amino-esters nano-vehicles based drug delivery system for cartilage. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 539-548.	3.3	49
26	Nano-carrier based drug delivery systems for sustained antimicrobial agent release from orthopaedic cementous material. Advances in Colloid and Interface Science, 2017, 249, 234-247.	14.7	49
27	Micropatterning with conical features can control bacterial adhesion on silicone. Soft Matter, 2013, 9, 1844-1851.	2.7	47
28	Novel process for coating textile materials with silver to prepare antimicrobial fabrics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 442, 146-151.	4.7	44
29	Bacterial cells exposed to nanosecond pulsed electric fields show lethal and sublethal effects. International Journal of Food Microbiology, 2007, 120, 311-314.	4.7	40
30	InÂvitro growth factor-induced bio engineering of mature articular cartilage. Biomaterials, 2013, 34, 1478-1487.	11.4	38
31	Adhesive forces and surface properties of cold gas plasma treated UHMWPE. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 83-89.	4.7	35
32	Prevention of biofilm accumulation on a light-activated antimicrobial catheter material. Journal of Materials Chemistry, 2010, 20, 8668.	6.7	33
33	Influence of operating parameters on surface properties of RF glow discharge oxygen plasma treated TiO2/PET film for biomedical application. Materials Science and Engineering C, 2014, 36, 309-319.	7.3	32
34	Continuous release of gentamicin from gold nanocarriers. RSC Advances, 2014, 4, 51904-51910.	3.6	32
35	Role of poly-beta-amino-esters hydrolysis and electrostatic attraction in gentamicin release from layer-by-layer coatings. Journal of Colloid and Interface Science, 2018, 526, 35-42.	9.4	31
36	The resistance to detachment of dairy strains of Listeria monocytogenes from stainless steel by shear stress is related to the fluid dynamic characteristics of the location of isolation. International Journal of Food Microbiology, 2007, 116, 384-390.	4.7	30

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37	Cold atmospheric pressure gas plasma enhances the wear performance of ultra-high molecular weight polyethylene. Acta Biomaterialia, 2012, 8, 1357-1365.	8.3	30
38	An investigation of microbial adhesion to natural and synthetic polysaccharide-based films and its relationship with the surface energy components. Journal of Materials Science: Materials in Medicine, 2009, 20, 195-202.	3.6	29
39	Biofilm development by Listeria innocua in turbulent flow regimes. Food Control, 2006, 17, 875-883.	5.5	28
40	Efficacy of a Novel Light-Activated Antimicrobial Coating for Disinfecting Hospital Surfaces. Infection Control and Hospital Epidemiology, 2011, 32, 1130-1132.	1.8	27
41	Biofilms and their engineered counterparts: A new generation of immobilised biocatalysts. Catalysis Science and Technology, 2012, 2, 1544.	4.1	27
42	An Injectable Hydrogel as Bone Graft Material with Added Antimicrobial Properties. Tissue Engineering - Part A, 2016, 22, 862-872.	3.1	26
43	Antimicrobial Properties of Light-activated Polyurethane Containing Indocyanine Green. Journal of Biomaterials Applications, 2011, 25, 387-400.	2.4	25
44	Lethality mechanisms in Escherichia coli induced by intense sub-microsecond electrical pulses. Applied Physics Letters, 2006, 89, 153902.	3.3	23
45	Optimisation of engineered Escherichia coli biofilms for enzymatic biosynthesis of l-halotryptophans. AMB Express, 2013, 3, 66.	3.0	23
46	Role of processing parameters on surface and wetting properties controlling the behaviour of layer-by-layer coated nanoparticles. Current Opinion in Colloid and Interface Science, 2018, 36, 130-142.	7.4	23
47	Modeling the Inactivation Kinetics of Bacillus subtilis Spores by Nonthermal Plasmas. IEEE Transactions on Plasma Science, 2006, 34, 1297-1303.	1.3	22
48	LbL-assembled gentamicin delivery system for PMMA bone cements to prolong antimicrobial activity. PLoS ONE, 2018, 13, e0207753.	2.5	22
49	Spatial variation of wear on CharitÃ© lumbar discs. Acta Biomaterialia, 2011, 7, 3914-3926.	8.3	18
50	Prolonged Antimicrobial Activity of PMMA Bone Cement with Embedded Gentamicin-Releasing Silica Nanocarriers. ACS Applied Bio Materials, 2019, 2, 1850-1861.	4.6	18
51	Frictional properties of light-activated antimicrobial polymers in blood vessels. Journal of Materials Science: Materials in Medicine, 2010, 21, 815-821.	3.6	17
52	Prediction of the frictional behavior of mammalian tissues against biomaterials. Acta Biomaterialia, 2010, 6, 4052-4059.	8.3	17
53	Controlling release kinetics of gentamicin from silica nano-carriers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 541, 212-221.	4.7	17
54	Antimicrobial activity of bone cements embedded with organic nanoparticles. International Journal of Nanomedicine, 2015, 10, 6317.	6.7	16

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55	Anti-inflammatory drug-eluting implant model system to prevent wear particle-induced periprosthetic osteolysis . International Journal of Nanomedicine, 2019, Volume 14, 1069-1084.	6.7	14
56	Optimisation and feature selection of poly-beta-amino-ester as a drug delivery system for cartilage. Journal of Materials Chemistry B, 2020, 8, 5096-5108.	5.8	14
57	Obtaining new composite biomaterials by means of mineralization of methacrylate hydrogels using the reactionâ€“diffusion method. Materials Science and Engineering C, 2014, 42, 696-704.	7.3	13
58	Cobalt, titanium and PMMA bone cement debris influence on mouse osteoblast cell elasticity, spring constant and calcium production activity. RSC Advances, 2015, 5, 83885-83898.	3.6	12
59	Long acting anti-infection constructs on titanium. Journal of Controlled Release, 2020, 326, 91-105.	9.9	12
60	Multi-Tools Approach for Food Safety Risk Management of Steam Meals. Journal of Food Protection, 2009, 72, 2638-2645.	1.7	10
61	Systematic Review and Meta-Analysis of Tobacco Use as a Risk Factor for Prosthetic Joint Infection After Total Hip Replacement. Arthroplasty Today, 2020, 6, 959-971.	1.6	10
62	Influence of csgD and ompR on Nanomechanics, Adhesion Forces, and Curli Properties of E. coli. Langmuir, 2016, 32, 7965-7974.	3.5	9
63	Cobalt and titanium nanoparticles influence on mesenchymal stem cell elasticity and turgidity. Colloids and Surfaces B: Biointerfaces, 2017, 157, 146-156.	5.0	9
64	Cobalt and Titanium nanoparticles influence on human osteoblast mitochondrial activity and biophysical properties of their cytoskeleton. Journal of Colloid and Interface Science, 2018, 531, 410-420.	9.4	9
65	Rheometer enabled study of cartilage frequency-dependent properties. Scientific Reports, 2020, 10, 20696.	3.3	9
66	Boron Mass Transfer During Seeded Microfiltration. Chemical Engineering Research and Design, 2006, 84, 60-68.	5.6	8
67	Multi-asperity elliptical JKR model for adhesion of a surface with non-axially symmetric asperities. Tribology International, 2015, 88, 107-114.	5.9	8
68	Nanomechanical and surface properties of rMSCs post-exposure to CAP treated UHMWPE wear particles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 723-734.	3.3	8
69	Nanoparticle-based model of anti-inflammatory drug releasing LbL coatings for uncemented prosthesis aseptic loosening prevention . International Journal of Nanomedicine, 2019, Volume 14, 7309-7322.	6.7	8
70	Lethal photosensitisation of bacteria using silica-TBO nanoconjugates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 510, 293-299.	4.7	7
71	Detachment of Listeria innocua and Pantoea agglomerans from cylinders of agar and potato tissue under conditions of Couette flow. Journal of Food Engineering, 2008, 89, 355-359.	5.2	6
72	A galvanic-chemical method for preparing diamond containing coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 384-389.	4.7	6

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73	Amplify antimicrobial photo dynamic therapy efficacy with poly-beta-amino esters (PBAEs). Scientific Reports, 2021, 11, 7275.	3.3	6
74	Contact interactions of aorta against PVC catheters. Tribology International, 2013, 66, 157-164.	5.9	4
75	Adhesion Phenomena in Pharmaceutical Products and Applications of AFM. Reviews of Adhesion and Adhesives, 2014, 2, 226-252.	3.4	2
76	Interaction of Sub-Microsecond Pulsed Electric Field With Bacterial Cells. , 2006, , .		1
77	Microbial control and safety in inhalation devices. , 2013, , 51-74.		1
78	Nanostructured coatings for antimicrobial applications. , 2020, , 115-140.		1
79	Light-activated antimicrobial nanoparticles. , 2015, , 415-427.		0