

# Stefano Perni

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Amplify antimicrobial photo dynamic therapy efficacy with poly-beta-amino esters (PBAs). Scientific Reports, 2021, 11, 7275.	3.3	6
2	Rheometer enabled study of cartilage frequency-dependent properties. Scientific Reports, 2020, 10, 20696.	3.3	9
3	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
4	Long acting anti-infection constructs on titanium. Journal of Controlled Release, 2020, 326, 91-105.	9.9	12
5	Nanostructured coatings for antimicrobial applications. , 2020, , 115-140.		1
6	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
7	<p></p>Nanoparticle-based model of anti-inflammatory drug releasing LbL coatings for uncemented prosthesis aseptic loosening prevention</p>. International Journal of Nanomedicine, 2019, Volume 14, 7309-7322.	6.7	8
8	Prolonged Antimicrobial Activity of PMMA Bone Cement with Embedded Gentamicin-Releasing Silica Nanocarriers. ACS Applied Bio Materials, 2019, 2, 1850-1861.	4.6	18
9	<p></p>Anti-inflammatory drug-eluting implant model system to prevent wear particle-induced periprosthetic osteolysis</p>. International Journal of Nanomedicine, 2019, Volume 14, 1069-1084.	6.7	14
10	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
11	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
12	Controlling release kinetics of gentamicin from silica nano-carriers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 541, 212-221.	4.7	17
13	LbL-assembled gentamicin delivery system for PMMA bone cements to prolong antimicrobial activity. PLoS ONE, 2018, 13, e0207753.	2.5	22
14	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
15	Poly-beta-amino-esters nano-vehicles based drug delivery system for cartilage. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 539-548.	3.3	49
16	Cobalt and titanium nanoparticles influence on mesenchymal stem cell elasticity and turgidity. Colloids and Surfaces B: Biointerfaces, 2017, 157, 146-156.	5.0	9
17	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
18	An Injectable Hydrogel as Bone Graft Material with Added Antimicrobial Properties. Tissue Engineering - Part A, 2016, 22, 862-872.	3.1	26

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19	Lethal photosensitisation of bacteria using silica-TBO nanoconjugates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 510, 293-299.	4.7	7
20	Influence of <i>csgD</i> and <i>ompR</i> on Nanomechanics, Adhesion Forces, and Curli Properties of <i>E. coli</i> . <i>Langmuir</i> , 2016, 32, 7965-7974.	3.5	9
21	Nanomechanical and surface properties of rMSCs post-exposure to CAP treated UHMWPE wear particles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 723-734.	3.3	8
22	Antimicrobial activity of bone cements embedded with organic nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 6317.	6.7	16
23	Multi-asperity elliptical JKR model for adhesion of a surface with non-axially symmetric asperities. <i>Tribology International</i> , 2015, 88, 107-114.	5.9	8
24	Silver nanoparticle based antibacterial methacrylate hydrogels potential for bone graft applications. <i>Materials Science and Engineering C</i> , 2015, 50, 332-340.	7.3	97
25	Light-activated antimicrobial nanoparticles. , 2015, , 415-427.		0
26	A galvanic-chemical method for preparing diamond containing coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 384-389.	4.7	6
27	Cobalt, titanium and PMMA bone cement debris influence on mouse osteoblast cell elasticity, spring constant and calcium production activity. <i>RSC Advances</i> , 2015, 5, 83885-83898.	3.6	12
28	Potent antimicrobial activity of bone cement encapsulating silver nanoparticles capped with oleic acid. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 273-281.	3.4	52
29	Characterization of cellulose based sponges for wound dressings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 336-342.	4.7	58
30	Novel process for coating textile materials with silver to prepare antimicrobial fabrics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 442, 146-151.	4.7	44
31	Influence of operating parameters on surface properties of RF glow discharge oxygen plasma treated TiO <sub>2</sub> /PET film for biomedical application. <i>Materials Science and Engineering C</i> , 2014, 36, 309-319.	7.3	32
32	Biogenic synthesis of antimicrobial silver nanoparticles capped with l-cysteine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 460, 219-224.	4.7	58
33	Success and failure of colloidal approaches in adhesion of microorganisms to surfaces. <i>Advances in Colloid and Interface Science</i> , 2014, 206, 265-274.	14.7	78
34	Continuous release of gentamicin from gold nanocarriers. <i>RSC Advances</i> , 2014, 4, 51904-51910.	3.6	32
35	Surface Roughness Mediated Adhesion Forces between Borosilicate Glass and Gram-Positive Bacteria. <i>Langmuir</i> , 2014, 30, 9466-9476.	3.5	91
36	Obtaining new composite biomaterials by means of mineralization of methacrylate hydrogels using the reactionâ€“diffusion method. <i>Materials Science and Engineering C</i> , 2014, 42, 696-704.	7.3	13

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37	Adhesive forces and surface properties of cold gas plasma treated UHMWPE. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 460, 83-89.	4.7	35
38	Adhesion Phenomena in Pharmaceutical Products and Applications of AFM. <i>Reviews of Adhesion and Adhesives</i> , 2014, 2, 226-252.	3.4	2
39	Contact interactions of aorta against PVC catheters. <i>Tribology International</i> , 2013, 66, 157-164.	5.9	4
40	Micropatterning with conical features can control bacterial adhesion on silicone. <i>Soft Matter</i> , 2013, 9, 1844-1851.	2.7	47
41	InÂvitro growth factor-induced bio engineering of mature articular cartilage. <i>Biomaterials</i> , 2013, 34, 1478-1487.	11.4	38
42	Microbial control and safety in inhalation devices. , 2013, , 51-74.		1
43	Optimisation of engineered <i>Escherichia coli</i> biofilms for enzymatic biosynthesis of l-halotryptophans. <i>AMB Express</i> , 2013, 3, 66.	3.0	23
44	A novel bone cement impregnated with silver&ndash;tiopronin nanoparticles: its antimicrobial, cytotoxic, and mechanical properties. <i>International Journal of Nanomedicine</i> , 2013, 8, 2227.	6.7	62
45	Incorporation of methylene blue and nanogold into polyvinyl chloride catheters; a new approach for light-activated disinfection of surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 15388.	6.7	62
46	Biofilms and their engineered counterparts: A new generation of immobilised biocatalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 1544.	4.1	27
47	Cold atmospheric pressure gas plasma enhances the wear performance of ultra-high molecular weight polyethylene. <i>Acta Biomaterialia</i> , 2012, 8, 1357-1365.	8.3	30
48	Efficacy of a Novel Light-Activated Antimicrobial Coating for Disinfecting Hospital Surfaces. <i>Infection Control and Hospital Epidemiology</i> , 2011, 32, 1130-1132.	1.8	27
49	Nanoparticles: their potential use in antibacterial photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 712-720.	2.9	173
50	Antimicrobial Properties of Light-activated Polyurethane Containing Indocyanine Green. <i>Journal of Biomaterials Applications</i> , 2011, 25, 387-400.	2.4	25
51	Visible light photocatalystsâ€”N-doped TiO2 by solâ€“gel, enhanced with surface bound silver nanoparticle islands. <i>Journal of Materials Chemistry</i> , 2011, 21, 11854.	6.7	56
52	Spatial variation of wear on CharitÃ© lumbar discs. <i>Acta Biomaterialia</i> , 2011, 7, 3914-3926.	8.3	18
53	Comparison of JKR- and DMT-based multi-asperity adhesion model: Theory and experiment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 383, 95-101.	4.7	53
54	Frictional properties of light-activated antimicrobial polymers in blood vessels. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 815-821.	3.6	17

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55	Antibacterial Activity of Light-Activated Silicone Containing Methylene Blue and Gold Nanoparticles of Different Sizes. <i>Journal of Cluster Science</i> , 2010, 21, 427-438.	3.3	62
56	Prediction of the frictional behavior of mammalian tissues against biomaterials. <i>Acta Biomaterialia</i> , 2010, 6, 4052-4059.	8.3	17
57	Multiasperity Contact Adhesion Model for Universal Asperity Height and Radius of Curvature Distributions. <i>Langmuir</i> , 2010, 26, 17028-17036.	3.5	54
58	Prevention of biofilm accumulation on a light-activated antimicrobial catheter material. <i>Journal of Materials Chemistry</i> , 2010, 20, 8668.	6.7	33
59	Multi-Tools Approach for Food Safety Risk Management of Steam Meals. <i>Journal of Food Protection</i> , 2009, 72, 2638-2645.	1.7	10
60	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. <i>Biomaterials</i> , 2009, 30, 89-93.	11.4	231
61	An investigation of microbial adhesion to natural and synthetic polysaccharide-based films and its relationship with the surface energy components. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 195-202.	3.6	29
62	Antimicrobial activity of methylene blue and toluidine blue O covalently bound to a modified silicone polymer surface. <i>Journal of Materials Chemistry</i> , 2009, 19, 6167.	6.7	83
63	Toluidine blue-containing polymers exhibit potent bactericidal activity when irradiated with red laser light. <i>Journal of Materials Chemistry</i> , 2009, 19, 2715.	6.7	59
64	Detachment of <i>Listeria innocua</i> and <i>Pantoea agglomerans</i> from cylinders of agar and potato tissue under conditions of Couette flow. <i>Journal of Food Engineering</i> , 2008, 89, 355-359.	5.2	6
65	Marked intra-strain variation in response of <i>Listeria monocytogenes</i> dairy isolates to acid or salt stress and the effect of acid or salt adaptation on adherence to abiotic surfaces. <i>International Journal of Food Microbiology</i> , 2008, 123, 142-150.	4.7	62
66	<i>Listeria monocytogenes</i> Biofilm-Associated Protein (BapL) May Contribute to Surface Attachment of <i>L. monocytogenes</i> but Is Absent from Many Field Isolates. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5451-5456.	3.1	57
67	Cold Atmospheric Plasma Disinfection of Cut Fruit Surfaces Contaminated with Migrating Microorganisms. <i>Journal of Food Protection</i> , 2008, 71, 1619-1625.	1.7	128
68	Cold Atmospheric Plasma Decontamination of the Pericarps of Fruit. <i>Journal of Food Protection</i> , 2008, 71, 302-308.	1.7	153
69	Probing bactericidal mechanisms induced by cold atmospheric plasmas with <i>Escherichia coli</i> mutants. <i>Applied Physics Letters</i> , 2007, 90, 073902.	3.3	147
70	Occurrence and persistence of <i>Listeria</i> spp. in the environment of ewe and cow's milk cheese dairies in Portugal unveiled by an integrated analysis of identification, typing and spatial-temporal mapping along production cycle. <i>International Journal of Food Microbiology</i> , 2007, 116, 52-63.	4.7	67
71	The resistance to detachment of dairy strains of <i>Listeria monocytogenes</i> from stainless steel by shear stress is related to the fluid dynamic characteristics of the location of isolation. <i>International Journal of Food Microbiology</i> , 2007, 116, 384-390.	4.7	30
72	Bacterial cells exposed to nanosecond pulsed electric fields show lethal and sublethal effects. <i>International Journal of Food Microbiology</i> , 2007, 120, 311-314.	4.7	40

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73	Lethality mechanisms in Escherichia coli induced by intense sub-microsecond electrical pulses. Applied Physics Letters, 2006, 89, 153902.	3.3	23
74	Modeling the Inactivation Kinetics of Bacillus subtilis Spores by Nonthermal Plasmas. IEEE Transactions on Plasma Science, 2006, 34, 1297-1303.	1.3	22
75	Biofilm development by Listeria innocua in turbulent flow regimes. Food Control, 2006, 17, 875-883.	5.5	28
76	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
77	Boron Mass Transfer During Seeded Microfiltration. Chemical Engineering Research and Design, 2006, 84, 60-68.	5.6	8
78	Interaction of Sub-Microsecond Pulsed Electric Field With Bacterial Cells. , 2006, , .		1
79	Estimating the maximum growth rate from microbial growth curves: definition is everything. Food Microbiology, 2005, 22, 491-495.	4.2	76