

Polina Prokopovich

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,891
citations

218677

26
h-index

265206

42
g-index

63
all docs

63
docs citations

63
times ranked

2848
citing authors

#	ARTICLE	IF	CITATIONS
1	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. <i>Biomaterials</i> , 2009, 30, 89-93.	11.4	231
2	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
3	Surface Roughness Mediated Adhesion Forces between Borosilicate Glass and Gram-Positive Bacteria. <i>Langmuir</i> , 2014, 30, 9466-9476.	3.5	91
4	Adhesion models: From single to multiple asperity contacts. <i>Advances in Colloid and Interface Science</i> , 2011, 168, 210-222.	14.7	85
5	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
6	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
7	A novel bone cement impregnated with silver–tiopronin nanoparticles: its antimicrobial, cytotoxic, and mechanical properties. <i>International Journal of Nanomedicine</i> , 2013, 8, 2227.	6.7	62
8	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
9	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
10	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
11	Multiasperity Contact Adhesion Model for Universal Asperity Height and Radius of Curvature Distributions. <i>Langmuir</i> , 2010, 26, 17028-17036.	3.5	54
12	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
13	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
14	Poly-beta-amino-esters nano-vehicles based drug delivery system for cartilage. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 539-548.	3.3	49
15	Nano-carrier based drug delivery systems for sustained antimicrobial agent release from orthopaedic cementous material. <i>Advances in Colloid and Interface Science</i> , 2017, 249, 234-247.	14.7	49
16	Micropatterning with conical features can control bacterial adhesion on silicone. <i>Soft Matter</i> , 2013, 9, 1844-1851.	2.7	47
17	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
18	InÂvitro growth factor-induced bio engineering of mature articular cartilage. <i>Biomaterials</i> , 2013, 34, 1478-1487.	11.4	38

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19	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
20	Interactions between mammalian cells and nano- or micro-sized wear particles: Physico-chemical views against biological approaches. <i>Advances in Colloid and Interface Science</i> , 2014, 213, 36-47.	14.7	34
21	Influence of operating parameters on surface properties of RF glow discharge oxygen plasma treated TiO ₂ /PET film for biomedical application. <i>Materials Science and Engineering C</i> , 2014, 36, 309-319.	7.3	32
22	Continuous release of gentamicin from gold nanocarriers. <i>RSC Advances</i> , 2014, 4, 51904-51910.	3.6	32
23	Role of poly-beta-amino-esters hydrolysis and electrostatic attraction in gentamicin release from layer-by-layer coatings. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 35-42.	9.4	31
24	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
25	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
26	An Injectable Hydrogel as Bone Graft Material with Added Antimicrobial Properties. <i>Tissue Engineering - Part A</i> , 2016, 22, 862-872.	3.1	26
27	Antimicrobial Properties of Light-activated Polyurethane Containing Indocyanine Green. <i>Journal of Biomaterials Applications</i> , 2011, 25, 387-400.	2.4	25
28	Polymer colloids as drug delivery systems for the treatment of arthritis. <i>Advances in Colloid and Interface Science</i> , 2020, 285, 102273.	14.7	24
29	Role of processing parameters on surface and wetting properties controlling the behaviour of layer-by-layer coated nanoparticles. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 36, 130-142.	7.4	23
30	LbL-assembled gentamicin delivery system for PMMA bone cements to prolong antimicrobial activity. <i>PLoS ONE</i> , 2018, 13, e0207753.	2.5	22
31	Prolonged Antimicrobial Activity of PMMA Bone Cement with Embedded Gentamicin-Releasing Silica Nanocarriers. <i>ACS Applied Bio Materials</i> , 2019, 2, 1850-1861.	4.6	18
32	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
33	Prediction of the frictional behavior of mammalian tissues against biomaterials. <i>Acta Biomaterialia</i> , 2010, 6, 4052-4059.	8.3	17
34	The Effect of Anterior-Posterior Shear on the Wear of CHARITÄ% Total Disc Replacement. <i>Spine</i> , 2012, 37, E528-E534.	2.0	17
35	Controlling release kinetics of gentamicin from silica nano-carriers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 541, 212-221.	4.7	17
36	Antimicrobial activity of bone cements embedded with organic nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 6317.	6.7	16

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37	<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
38	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
39	Obtaining new composite biomaterials by means of mineralization of methacrylate hydrogels using the reaction"diffusion method. Materials Science and Engineering C, 2014, 42, 696-704.	7.3	13
40	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
41	Long acting anti-infection constructs on titanium. Journal of Controlled Release, 2020, 326, 91-105.	9.9	12
42	PMMA bone cement containing long releasing silica-based chlorhexidine nanocarriers. PLoS ONE, 2021, 16, e0257947.	2.5	11
43	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
44	Influence of csgD and ompR on Nanomechanics, Adhesion Forces, and Curli Properties of <i>E. coli</i>. Langmuir, 2016, 32, 7965-7974.	3.5	9
45	Cobalt and titanium nanoparticles influence on mesenchymal stem cell elasticity and turgidity. Colloids and Surfaces B: Biointerfaces, 2017, 157, 146-156.	5.0	9
46	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
47	Rheometer enabled study of cartilage frequency-dependent properties. Scientific Reports, 2020, 10, 20696.	3.3	9
48	Multi-asperity elliptical JKR model for adhesion of a surface with non-axially symmetric asperities. Tribology International, 2015, 88, 107-114.	5.9	8
49	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
50	<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
51	Lethal photosensitisation of bacteria using silica-TBO nanoconjugates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 510, 293-299.	4.7	7
52	Amplify antimicrobial photo dynamic therapy efficacy with poly-beta-amino esters (PBAEs). Scientific Reports, 2021, 11, 7275.	3.3	6
53	Poly beta amino ester coated emulsions of NSAIDs for cartilage treatment. Journal of Materials Chemistry B, 2021, 9, 5837-5847.	5.8	5
54	Contact interactions of aorta against PVC catheters. Tribology International, 2013, 66, 157-164.	5.9	4

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55	Preface. <i>Advances in Colloid and Interface Science</i> , 2017, 249, 1.	14.7	3
56	Adhesion Phenomena in Pharmaceutical Products and Applications of AFM. <i>Reviews of Adhesion and Adhesives</i> , 2014, 2, 226-252.	3.4	2
57	Sunlight induced synthesis of silver nanoparticles on cellulose for the preparation of antimicrobial textiles. <i>Journal of Photochemistry and Photobiology</i> , 2022, 11, 100134.	2.5	2
58	Nano- and Component Level Friction of Rubber Seals in Dispensing Devices. , 2009, , .		1
59	Nanostructured coatings for antimicrobial applications. , 2020, , 115-140.		1
60	A Dimensionless Analysis of the Effect of Material and Surface Properties on Adhesion. Applications to Medical Device Design. , 2012, , 59-65.		1