

Li-Chong Xu

List of Publications by Year in descending order

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37
papers

2,331
citations

304743

22
h-index

414414

32
g-index

37
all docs

37
docs citations

37
times ranked

4000
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of surface wettability and contact time on protein adhesion to biomaterial surfaces. <i>Biomaterials</i> , 2007, 28, 3273-3283.	11.4	586
2	Proteins, platelets, and blood coagulation at biomaterial interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 124, 49-68.	5.0	290
3	Quantification of bacterial adhesion forces using atomic force microscopy (AFM). <i>Journal of Microbiological Methods</i> , 2000, 40, 89-97.	1.6	227
4	A Comparison of Phase Organization of Model Segmented Polyurethanes with Different Intersegment Compatibilities. <i>Macromolecules</i> , 2008, 41, 9767-9776.	4.8	154
5	Submicron-textured biomaterial surface reduces staphylococcal bacterial adhesion and biofilm formation. <i>Acta Biomaterialia</i> , 2012, 8, 72-81.	8.3	143
6	Liquid Biopsy of Vitreous Reveals an Abundant Vesicle Population Consistent With the Size and Morphology of Exosomes. <i>Translational Vision Science and Technology</i> , 2018, 7, 6.	2.2	86
7	Effect of surface nanoscale topography on elastic modulus of individual osteoblastic cells as determined by atomic force microscopy. <i>Journal of Biomechanics</i> , 2007, 40, 2865-2871.	2.1	73
8	Inhibition of bacterial adhesion and biofilm formation by dual functional textured and nitric oxide releasing surfaces. <i>Acta Biomaterialia</i> , 2017, 51, 53-65.	8.3	66
9	Blood coagulation response and bacterial adhesion to biomimetic polyurethane biomaterials prepared with surface texturing and nitric oxide release. <i>Acta Biomaterialia</i> , 2019, 84, 77-87.	8.3	61
10	<i>Staphylococcus epidermidis</i> adhesion on hydrophobic and hydrophilic textured biomaterial surfaces. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 035003.	3.3	55
11	Substrate curvature sensing through Myosin IIa upregulates early osteogenesis. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1407.	1.3	45
12	Protein adsorption, platelet adhesion, and bacterial adhesion to polyethylene-glycol-textured polyurethane biomaterial surfaces. , 2017, 105, 668-678.		45
13	Interleukin-13 conjugated quantum dots for identification of glioma initiating cells and their extracellular vesicles. <i>Acta Biomaterialia</i> , 2017, 58, 205-213.	8.3	45
14	Application of atomic force microscopy in the study of microbiologically influenced corrosion. <i>Materials Characterization</i> , 2002, 48, 195-203.	4.4	43
15	Atomic Force Microscopy Studies of the Initial Interactions between Fibrinogen and Surfaces. <i>Langmuir</i> , 2009, 25, 3675-3681.	3.5	39
16	Dynamics of hydrated polyurethane biomaterials: Surface microphase restructuring, protein activity and platelet adhesion. <i>Acta Biomaterialia</i> , 2010, 6, 1938-1947.	8.3	37
17	Reduction of Endothelial Nitric Oxide Increases the Adhesiveness of Constitutive Endothelial Membrane ICAM-1 through Src-Mediated Phosphorylation. <i>Frontiers in Physiology</i> , 2017, 8, 1124.	2.8	34
18	The role of substrate topography on the cellular uptake of nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 488-495.	3.4	31

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19	Antimicrobial nitric oxide releasing surfaces based on S-nitroso-N-acetylpenicillamine impregnated polymers combined with submicron-textured surface topography. <i>Biomaterials Science</i> , 2017, 5, 1265-1278.	5.4	30
20	A new textured polyphosphazene biomaterial with improved blood coagulation and microbial infection responses. <i>Acta Biomaterialia</i> , 2018, 67, 87-98.	8.3	28
21	Interaction Forces Measured Using AFM between Colloids and Surfaces Coated with Both Dextran and Protein. <i>Langmuir</i> , 2006, 22, 4720-4727.	3.5	25
22	Adhesion forces between functionalized latex microspheres and protein-coated surfaces evaluated using colloid probe atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 48, 84-94.	5.0	24
23	Inhibition of bacterial adhesion and biofilm formation by a textured fluorinated alkoxyphosphazene surface. <i>Bioactive Materials</i> , 2021, 6, 447-459.	15.6	24
24	Microphase separation structure influences protein interactions with poly(urethane urea) surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 126-136.	4.0	23
25	Effects of membrane cholesterol depletion and GPIIb/IIIa anchored protein reduction on osteoblastic mechanotransduction. <i>Journal of Cellular Physiology</i> , 2011, 226, 2350-2359.	4.1	20
26	Influence of Cr ³⁺ on microbial cluster formation in biofilm and on steel corrosion. <i>Biotechnology Letters</i> , 2000, 22, 801-805.	2.2	18
27	Characterization of surface microphase structures of poly(urethane urea) biomaterials by nanoscale indentation with AFM. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 353-368.	3.5	17
28	Surface dependent contact activation of factor XII and blood plasma coagulation induced by mixed thiol surfaces. <i>Biointerphases</i> , 2017, 12, 02D410.	1.6	15
29	Effects of Plasma Proteins on <i>Staphylococcus epidermidis</i> RP62A Adhesion and Interaction with Platelets on Polyurethane Biomaterial Surfaces. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2012, 03, 487-498.	0.5	15
30	New crosslinkable poly[bis(octafluoropentoxy) phosphazene] biomaterials: Synthesis, surface characterization, bacterial adhesion, and plasma coagulation responses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 3250-3260.	3.4	11
31	Submicron topography design for controlling staphylococcal bacterial adhesion and biofilm formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1238-1250.	4.0	10
32	Increased circulating microparticles in streptozotocin-induced diabetes propagate inflammation contributing to microvascular dysfunction. <i>Journal of Physiology</i> , 2019, 597, 781-798.	2.9	9
33	Measurement of Time-Dependent Functional Activity of Adsorbed Fibrinogen and Platelet Adhesion on Material Surfaces. <i>ACS Symposium Series</i> , 2012, , 373-394.	0.5	1
34	Atomic Force Microscopy Methods for Characterizing Protein Interactions with Microphase-Separated Polyurethane Biomaterials. , 2009, , 43-67.		1
35	Effects of Biomaterial Chemical Heterogeneity on Fibrinogen Activity-Platelet Adhesion Relationships. <i>Biophysical Journal</i> , 2012, 102, 716a.	0.5	0
36	CHAPTER 13. Bacterial Adhesion and Interaction with Biomaterial Surfaces. <i>RSC Smart Materials</i> , 2014, , 363-398.	0.1	0

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37	Bacterial cell-biomaterials interactions. , 2020, , 11-42.		0