

Lars David Renner

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,621
citations

21
h-index

40
g-index

41
ext. papers

1,927
ext. citations

6.7
avg, IF

4.91
L-index

#	Paper	IF	Citations
39	Physicochemical regulation of biofilm formation. <i>MRS Bulletin</i> , 2011 , 36, 347-355	3.2	352
38	Cardiolipin microdomains localize to negatively curved regions of Escherichia coli membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 6264-9	11.5	259
37	Measuring the stiffness of bacterial cells from growth rates in hydrogels of tunable elasticity. <i>Molecular Microbiology</i> , 2012 , 84, 874-91	4.1	146
36	MreB filaments align along greatest principal membrane curvature to orient cell wall synthesis. <i>ELife</i> , 2018 , 7,	8.9	95
35	MinD and MinE interact with anionic phospholipids and regulate division plane formation in Escherichia coli. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38835-44	5.4	64
34	Charging and structure of zwitterionic supported bilayer lipid membranes studied by streaming current measurements, fluorescence microscopy, and attenuated total reflection Fourier transform infrared spectroscopy. <i>Biointerphases</i> , 2009 , 4, 1-6	1.8	62
33	Archaeal cells share common size control with bacteria despite noisier growth and division. <i>Nature Microbiology</i> , 2018 , 3, 148-154	26.6	57
32	Fibronectin displacement at polymer surfaces. <i>Langmuir</i> , 2005 , 21, 4571-7	4	50
31	Mechanical strain sensing implicated in cell shape recovery in Escherichia coli. <i>Nature Microbiology</i> , 2017 , 2, 17115	26.6	43
30	Functional films of maleic anhydride copolymers under physiological conditions. <i>Macromolecular Bioscience</i> , 2005 , 5, 890-5	5.5	43
29	Dynamic alterations of fibronectin layers on copolymer substrates with graded physicochemical characteristics. <i>Langmuir</i> , 2004 , 20, 2928-33	4	41
28	Supported lipid bilayers on spacious and pH-responsive polymer cushions with varied hydrophilicity. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6373-8	3.4	36
27	Nanoscale features of fibronectin fibrillogenesis depend on protein-substrate interaction and cytoskeleton structure. <i>Biophysical Journal</i> , 2005 , 88, 527-34	2.9	34
26	Detection of ESKAPE Bacterial Pathogens at the Point of Care Using Isothermal DNA-Based Assays in a Portable Degas-Actuated Microfluidic Diagnostic Assay Platform. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	33
25	Hydrophobic and electrostatic interactions in the adsorption of fibronectin at maleic acid copolymer films. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12119-24	3.4	33
24	Studying biomolecule localization by engineering bacterial cell wall curvature. <i>PLoS ONE</i> , 2013 , 8, e84143	3.7	31
23	Controlled enhancement of transmembrane enzyme activity in polymer cushioned supported bilayer membranes. <i>Soft Matter</i> , 2010 , 6, 5382	3.6	30

22	Evaluation of the matrix effect of different sample matrices for 33 pharmaceuticals by post-column infusion. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1000, 84-94	3.2	28
21	Friction-controlled traction force in cell adhesion. <i>Biophysical Journal</i> , 2011 , 101, 1863-70	2.9	26
20	Fluidity modulation of phospholipid bilayers by electrolyte ions: insights from fluorescence microscopy and microslit electrokinetic experiments. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 6519-25	2.8	24
19	Polyacrylamide hydrogels as substrates for studying bacteria. <i>Chemical Communications</i> , 2012 , 48, 1595-7	3.8	23
18	Control of fibronectin displacement on polymer substrates to influence endothelial cell behaviour. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 387-90	4.5	16
17	A simple two-step silane-based (bio-) receptor molecule immobilization without additional binding site passivation. <i>RSC Advances</i> , 2015 , 5, 35631-35634	3.7	15
16	Tuneable swelling of thermo- and pH-responsive copolymer films. <i>Soft Matter</i> , 2010 , 6, 937	3.6	13
15	Recent advances in understanding how rod-like bacteria stably maintain their cell shapes. <i>F1000Research</i> , 2018 , 7, 241	3.6	13
14	Copper nanowire synthesis by directed electrochemical nanowire assembly. <i>RSC Advances</i> , 2014 , 4, 46363-46368	3.7	11
13	Cytoplasmic condensation induced by membrane damage is associated with antibiotic lethality. <i>Nature Communications</i> , 2021 , 12, 2321	17.4	9
12	Post-column infusion of internal standard quantification for liquid chromatography-electrospray ionization-tandem mass spectrometry analysis - Pharmaceuticals in urine as example approach. <i>Journal of Chromatography A</i> , 2018 , 1535, 80-87	4.5	7
11	Analyzing the antiseptic capacity of silver-functionalized poly(ethylene glycol)-heparin hydrogels after human whole blood exposure. <i>Biomaterials Science</i> , 2018 , 6, 1129-1139	7.4	6
10	Protein adsorption dynamics to polymer surfaces revisited-A multisystems approach. <i>Biointerphases</i> , 2019 , 14, 051005	1.8	6
9	Understanding Beta-Lactam-Induced Lysis at the Single-Cell Level. <i>Frontiers in Microbiology</i> , 2021 , 12, 712007	5.7	4
8	Electrostatic stretching of grafted maleic acid copolymer chains. <i>EXPRESS Polymer Letters</i> , 2009 , 3, 33-38	3.4	3
7	MreB Filaments Create Rod Shape By Aligning Along Principal Membrane Curvature		2
6	Engineering Bacterial Shape Using Soft Matter Microchambers. <i>Current Protocols in Chemical Biology</i> , 2019 , 11, e59	1.8	2
5	Amphiphilic Copolymers for Versatile, Facile, and In Situ Tunable Surface Biofunctionalization. <i>Advanced Materials</i> , 2021 , 33, e2102489	24	2

4	Fibronectin at Polymer Surfaces with Graduated Characteristics 2006 , 175-198		2
3	Combining microscopy assays of bacteria-surface interactions to better evaluate antimicrobial polymer coatings.. <i>Applied and Environmental Microbiology</i> , 2022 , aem0224121	4.8	o
2	Revealing spatio-temporal dynamics with long-term trypanosomatid live-cell imaging.. <i>PLoS Pathogens</i> , 2022 , 18, e1010218	7.6	
1	Amphiphilic Copolymers for Versatile, Facile, and In Situ Tunable Surface Biofunctionalization (Adv. Mater. 42/2021). <i>Advanced Materials</i> , 2021 , 33, 2170332	24	