Xinlei Li

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6842571/publications.pdf

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35	563	758635	642321
papers	citations	12 h-index	23 g-index

36	36	36	925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bactericidal mechanism of nanopatterned surfaces. Physical Chemistry Chemical Physics, 2016, 18, 1311-1316.	1.3	144
2	Enhancement and suppression effects of a nanopatterned surface on bacterial adhesion. Physical Review E, 2016, 93, 052419.	0.8	54
3	The effects of surface topography of nanostructure arrays on cell adhesion. Physical Chemistry Chemical Physics, 2018, 20, 22946-22951.	1.3	51
4	Origin of nanohole formation by etching based on droplet epitaxy. Nanoscale, 2014, 6, 2675.	2.8	37
5	Size and shape effects on receptor-mediated endocytosis of nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	30
6	Strain Self-Releasing Mechanism in Heteroepitaxy on Nanowires. Journal of Physical Chemistry C, 2009, 113, 12402-12406.	1.5	27
7	Selfâ€Assembly of Multiple Stacked Nanorings by Vertically Correlated Droplet Epitaxy. Advanced Functional Materials, 2014, 24, 530-535.	7.8	20
8	A simple method to evaluate the optimal size of nanoparticles for endocytosis based on kinetic diffusion of receptors. Applied Physics Letters, 2010, 97, .	1.5	19
9	Thermodynamic theory of two-dimensional to three-dimensional growth transition in quantum dots self-assembly. Physical Chemistry Chemical Physics, 2010, 12, 4768.	1.3	18
10	Modeling the size- and shape-dependent cohesive energy of nanomaterials and its applications in heterogeneous systems. Nanotechnology, 2014, 25, 185702.	1.3	18
11	Zinc oxide spiky nanoparticles: A promising nanomaterial for killing tumor cells. Materials Science and Engineering C, 2021, 124, 112071.	3.8	14
12	Size Limit and Energy Analysis of Nanoparticles during Wrapping Process by Membrane. Nanomaterials, 2018, 8, 899.	1.9	13
13	Toward a Better Understanding of Hemiwicking: A Simple Model to Comprehensive Prediction. Langmuir, 2019, 35, 2854-2864.	1.6	12
14	The influence of the atomic interactions in out-of-plane on surface energy and its applications in nanostructures. Journal of Applied Physics, 2012, 112, .	1.1	10
15	Theory of controllable shape of quantum structures upon droplet epitaxy. Journal of Crystal Growth, 2013, 377, 59-63.	0.7	9
16	Modeling the Effects of Nanopatterned Surfaces on Wetting States of Droplets. Nanoscale Research Letters, 2017, 12, 309.	3.1	9
17	Size effects of carbon nanotubes and graphene on cellular uptake. Europhysics Letters, 2012, 100, 46002.	0.7	7
18	Selective formation mechanisms of quantum dots on patterned substrates. Physical Chemistry Chemical Physics, 2013, 15, 5238.	1.3	7

#	Article	IF	Citations
19	A Thermodynamic Model of Diameter- and Temperature-dependent Semiconductor Nanowire Growth. Scientific Reports, 2017, 7, 15029.	1.6	7
20	Wavelength-tunable InAsP quantum dots in InP nanowires. Applied Physics Letters, 2019, 115, 053101.	1.5	7
21	Origin of efficiency enhancement in cell capture on nanostructured arrays. Journal of Materials Science, 2019, 54, 4236-4245.	1.7	7
22	Penetration mechanism of cells by vertical nanostructures. Physical Review E, 2020, 102, 052401.	0.8	7
23	Fabrication of ultralow-density quantum dots by droplet etching epitaxy. Journal of Materials Research, 2017, 32, 4095-4101.	1.2	6
24	Modification of Stranskiâ€“Krastanov growth on the surface of nanowires. Nanotechnology, 2014, 25, 435605.	1.3	5
25	Local release and isolation of circulating tumor cells captured by the nano-morphologic substrate coated with gelatin under near-infrared light. Journal of Materials Science, 2021, 56, 16634-16647.	1.7	5
26	Thermodynamic theory of controlled formation of strained quantum dots on hole-patterned substrates. Journal of Applied Physics, 2011, 109, .	1.1	4
27	Highâ€Efficiency Capture of Cells by Softening Cell Membrane. Small, 2022, 18, e2106547.	5.2	4
28	An analytical model for the bending of radial nanowire heterostructures. Physical Chemistry Chemical Physics, 2019, 21, 9477-9482.	1.3	3
29	Physical understanding of the bending of nanostructures caused by cellular force. Physical Review E, 2020, 101, 032406.	0.8	3
30	The effects of substrate morphology by regulating pseudopods formation on cell directional alignment and migration. Journal Physics D: Applied Physics, 2022, 55, 105401.	1.3	3
31	Towards a better understanding of the effects of the magnetic nanoparticles size and magnetic field on cellular endocytosis. Journal Physics D: Applied Physics, 2020, 53, 175401.	1.3	2
32	Thermodynamic stability of quantum dots on strained substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1755-1758.	1.3	1
33	The structural symmetry of nanoholes upon droplet epitaxy. Nanotechnology, 2021, 32, 225602.	1.3	0
34	Capture and isolation of tumor cells by graphene intercalated carbon film. Applied Physics Letters, 2022, 120, 063702.	1.5	0
35	Graphene oxide-doped photothermal heater in microchannel for thermophoretically shifting micro- and nano-particles. Journal of Applied Physics, 2021, 130, 244901.	1.1	0