

Xinlei Li

List of Publications by Year in descending order

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35
papers

563
citations

758635

12
h-index

642321

23
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36
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docs citations

36
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of substrate morphology by regulating pseudopods formation on cell directional alignment and migration. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 105401.	1.3	3
2	High-efficiency Capture of Cells by Softening Cell Membrane. <i>Small</i> , 2022, 18, e2106547.	5.2	4
3	Capture and isolation of tumor cells by graphene intercalated carbon film. <i>Applied Physics Letters</i> , 2022, 120, 063702.	1.5	0
4	The structural symmetry of nanoholes upon droplet epitaxy. <i>Nanotechnology</i> , 2021, 32, 225602.	1.3	0
5	Zinc oxide spiky nanoparticles: A promising nanomaterial for killing tumor cells. <i>Materials Science and Engineering C</i> , 2021, 124, 112071.	3.8	14
6	Local release and isolation of circulating tumor cells captured by the nano-morphologic substrate coated with gelatin under near-infrared light. <i>Journal of Materials Science</i> , 2021, 56, 16634-16647.	1.7	5
7	Graphene oxide-doped photothermal heater in microchannel for thermophoretically shifting micro- and nano-particles. <i>Journal of Applied Physics</i> , 2021, 130, 244901.	1.1	0
8	Penetration mechanism of cells by vertical nanostructures. <i>Physical Review E</i> , 2020, 102, 052401.	0.8	7
9	Towards a better understanding of the effects of the magnetic nanoparticles size and magnetic field on cellular endocytosis. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 175401.	1.3	2
10	Physical understanding of the bending of nanostructures caused by cellular force. <i>Physical Review E</i> , 2020, 101, 032406.	0.8	3
11	Wavelength-tunable InAsP quantum dots in InP nanowires. <i>Applied Physics Letters</i> , 2019, 115, 053101.	1.5	7
12	Toward a Better Understanding of Hemiwicking: A Simple Model to Comprehensive Prediction. <i>Langmuir</i> , 2019, 35, 2854-2864.	1.6	12
13	An analytical model for the bending of radial nanowire heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9477-9482.	1.3	3
14	Origin of efficiency enhancement in cell capture on nanostructured arrays. <i>Journal of Materials Science</i> , 2019, 54, 4236-4245.	1.7	7
15	Size Limit and Energy Analysis of Nanoparticles during Wrapping Process by Membrane. <i>Nanomaterials</i> , 2018, 8, 899.	1.9	13
16	The effects of surface topography of nanostructure arrays on cell adhesion. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22946-22951.	1.3	51
17	Fabrication of ultralow-density quantum dots by droplet etching epitaxy. <i>Journal of Materials Research</i> , 2017, 32, 4095-4101.	1.2	6
18	A Thermodynamic Model of Diameter- and Temperature-dependent Semiconductor Nanowire Growth. <i>Scientific Reports</i> , 2017, 7, 15029.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Modeling the Effects of Nanopatterned Surfaces on Wetting States of Droplets. <i>Nanoscale Research Letters</i> , 2017, 12, 309.	3.1	9
20	Enhancement and suppression effects of a nanopatterned surface on bacterial adhesion. <i>Physical Review E</i> , 2016, 93, 052419.	0.8	54
21	Bactericidal mechanism of nanopatterned surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1311-1316.	1.3	144
22	Self-Assembly of Multiple Stacked Nanorings by Vertically Correlated Droplet Epitaxy. <i>Advanced Functional Materials</i> , 2014, 24, 530-535.	7.8	20
23	Modeling the size- and shape-dependent cohesive energy of nanomaterials and its applications in heterogeneous systems. <i>Nanotechnology</i> , 2014, 25, 185702.	1.3	18
24	Modification of Stranski-Krastanov growth on the surface of nanowires. <i>Nanotechnology</i> , 2014, 25, 435605.	1.3	5
25	Origin of nanohole formation by etching based on droplet epitaxy. <i>Nanoscale</i> , 2014, 6, 2675.	2.8	37
26	Selective formation mechanisms of quantum dots on patterned substrates. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5238.	1.3	7
27	Theory of controllable shape of quantum structures upon droplet epitaxy. <i>Journal of Crystal Growth</i> , 2013, 377, 59-63.	0.7	9
28	Size effects of carbon nanotubes and graphene on cellular uptake. <i>Europhysics Letters</i> , 2012, 100, 46002.	0.7	7
29	Size and shape effects on receptor-mediated endocytosis of nanoparticles. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	30
30	The influence of the atomic interactions in out-of-plane on surface energy and its applications in nanostructures. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	10
31	Thermodynamic theory of controlled formation of strained quantum dots on hole-patterned substrates. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	4
32	Thermodynamic stability of quantum dots on strained substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1755-1758.	1.3	1
33	A simple method to evaluate the optimal size of nanoparticles for endocytosis based on kinetic diffusion of receptors. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	19
34	Thermodynamic theory of two-dimensional to three-dimensional growth transition in quantum dots self-assembly. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4768.	1.3	18
35	Strain Self-Releasing Mechanism in Heteroepitaxy on Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12402-12406.	1.5	27