

Loretta L L Del Mercato

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,928
citations

304368

22
h-index

253896

43
g-index

56
all docs

56
docs citations

56
times ranked

3208
citing authors

#	ARTICLE	IF	CITATIONS
1	LbL multilayer capsules: recent progress and future outlook for their use in life sciences. <i>Nanoscale</i> , 2010, 2, 458.	2.8	208
2	Charge transport and intrinsic fluorescence in amyloid-like fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18019-18024.	3.3	192
3	Nanopharmacy: Inorganic nanoscale devices as vectors and active compounds. <i>Pharmacological Research</i> , 2010, 62, 115-125.	3.1	171
4	Biological applications of LbL multilayer capsules: From drug delivery to sensing. <i>Advances in Colloid and Interface Science</i> , 2014, 207, 139-154.	7.0	121
5	Multiplexed Sensing of Ions with Barcoded Polyelectrolyte Capsules. <i>ACS Nano</i> , 2011, 5, 9668-9674.	7.3	95
6	Nanoparticle-modified polyelectrolyte capsules. <i>Nano Today</i> , 2008, 3, 12-21.	6.2	93
7	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6257-6264.	1.5	83
8	Towards the development of human immune-system-on-a-chip platforms. <i>Drug Discovery Today</i> , 2019, 24, 517-525.	3.2	75
9	Amyloid-like Fibrils in Elastin-Related Polypeptides: Structural Characterization and Elastic Properties. <i>Biomacromolecules</i> , 2008, 9, 796-803.	2.6	68
10	Synthesis and Characterization of Ratiometric Ion-Sensitive Polyelectrolyte Capsules. <i>Small</i> , 2011, 7, 351-363.	5.2	65
11	Electrospun nanofibers in cancer research: from engineering of <i>in vitro</i> 3D cancer models to therapy. <i>Biomaterials Science</i> , 2020, 8, 4887-4905.	2.6	55
12	Exploring Local Flexibility/Rigidity in Psychrophilic and Mesophilic Carbonic Anhydrases. <i>Biophysical Journal</i> , 2009, 96, 1586-1596.	0.2	54
13	De Novo Design of Supercharged, Unfolded Protein Polymers, and Their Assembly into Supramolecular Aggregates. <i>Macromolecular Rapid Communications</i> , 2011, 32, 186-190.	2.0	46
14	Catalytic Self-Propulsion of Supramolecular Capsules Powered by Polyoxometalate Cargos. <i>Chemistry - A European Journal</i> , 2014, 20, 10910-10914.	1.7	45
15	One example on how colloidal nano- and microparticles could contribute to medicine. <i>Nanomedicine</i> , 2009, 4, 967-979.	1.7	42
16	Synthesis and evaluation of gold nanoparticle-modified polyelectrolyte capsules under microwave irradiation for remotely controlled release for cargo. <i>Journal of Materials Chemistry</i> , 2011, 21, 11468.	6.7	37
17	Fluorescence enhancement in colloidal semiconductor nanocrystals by metallic nanopatterns. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 187-192.	4.0	34
18	Biocompatible multilayer capsules engineered with a graphene oxide derivative: synthesis, characterization and cellular uptake. <i>Nanoscale</i> , 2016, 8, 7501-7512.	2.8	33

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19	A synergic approach to enhance long-term culture and manipulation of MiaPaCa-2 pancreatic cancer spheroids. <i>Scientific Reports</i> , 2020, 10, 10192.	1.6	32
20	Co-loading of doxorubicin and iron oxide nanocubes in polycaprolactone fibers for combining Magneto-Thermal and chemotherapeutic effects on cancer cells. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 34-44.	5.0	27
21	Emerging Technologies for Cancer Research: Towards Personalized Medicine with Microfluidic Platforms and 3D Tumor Models. <i>Current Medicinal Chemistry</i> , 2018, 25, 4616-4637.	1.2	26
22	Advances in Use of Capsule-Based Fluorescent Sensors for Measuring Acidification of Endocytic Compartments in Cells with Altered Expression of V-ATPase Subunit V ₁ G ₁ . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15052-15060.	4.0	24
23	Fluorescence resonance energy transfer induced by conjugation of metalloproteins to nanoparticles. <i>Chemical Physics Letters</i> , 2006, 417, 351-357.	1.2	22
24	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution. <i>Small</i> , 2015, 11, 6417-6424.	5.2	22
25	Anticancer effects of novel resveratrol analogues on human ovarian cancer cells. <i>Molecular BioSystems</i> , 2017, 13, 1131-1141.	2.9	21
26	Cytoskeletal Alterations and Biomechanical Properties of parkin-Mutant Human Primary Fibroblasts. <i>Cell Biochemistry and Biophysics</i> , 2015, 71, 1395-1404.	0.9	20
27	Electrospun polyvinyl-alcohol/gum arabic nanofibers: Biomimetic platform for in vitro cell growth and cancer nanomedicine delivery. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 764-773.	3.6	20
28	Relaxation times of colloidal iron platinum in polymer matrixes. <i>Journal of Materials Chemistry</i> , 2009, 19, 6381.	6.7	19
29	The Revolutionary Roads to Study Cell-Cell Interactions in 3D In Vitro Pancreatic Cancer Models. <i>Cancers</i> , 2021, 13, 930.	1.7	18
30	Design and characterization of microcapsules-integrated collagen matrixes as multifunctional three-dimensional scaffolds for soft tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 209-221.	1.5	17
31	Fluorescent nanoparticles for sensing. <i>Frontiers of Nanoscience</i> , 2020, 16, 117-149.	0.3	16
32	Mixing enhancement induced by viscoelastic micromotors in microfluidic platforms. <i>Chemical Engineering Journal</i> , 2020, 391, 123572.	6.6	15
33	Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds. <i>Small</i> , 2020, 16, e2002258.	5.2	14
34	Catalytic oxygen production mediated by smart capsules to modulate elastic turbulence under a laminar flow regime. <i>Lab on A Chip</i> , 2014, 14, 4391-4397.	3.1	13
35	Highly Sensitive Fluorescent pH Microsensors Based on the Ratiometric Dye Pyranine Immobilized on Silica Microparticles. <i>Chemistry - A European Journal</i> , 2021, 27, 13318-13324.	1.7	10
36	Optical and magnetic resonance imaging approaches for investigating the tumour microenvironment: state-of-the-art review and future trends. <i>Nanotechnology</i> , 2021, 32, 062001.	1.3	10

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37	Multilayered Magnetic Nanobeads for the Delivery of Peptides Molecules Triggered by Intracellular Proteases. ACS Applied Materials & Interfaces, 2017, 9, 35095-35104.	4.0	9
38	Beyond gold nanoparticles cytotoxicity: Potential to impair metastasis hallmarks. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 157, 221-232.	2.0	9
39	Ageing of solid-state protein films: Behavior of azurin at ambient conditions. Chemical Physics Letters, 2005, 404, 59-62.	1.2	8
40	Charge transport in disordered films of non-redox proteins. Journal of Chemical Physics, 2006, 125, 021103.	1.2	7
41	Highly Sensitive Membrane-Based Pressure Sensors (MePS) for Real-Time Monitoring of Catalytic Reactions. Analytical Chemistry, 2018, 90, 7659-7665.	3.2	7
42	Fully Automated Computational Approach for Precisely Measuring Organelle Acidification with Optical pH Sensors. ACS Applied Materials & Interfaces, 2022, 14, 18133-18149.	4.0	7
43	A pH-sensor scaffold for mapping spatiotemporal gradients in three-dimensional in vitro tumour models. Biosensors and Bioelectronics, 2022, 212, 114401.	5.3	6
44	Self-powered catalytic microfluidic platforms for fluid delivery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 257-262.	2.3	3
45	Effects of high external electric fields on protein conformation. , 2005, , .		2
46	Interconnection of specific nano-objects by electron beam lithography " A controllable method. Materials Science and Engineering C, 2008, 28, 299-302.	3.8	2
47	Correction for del Mercato <i>et al.</i> , Charge transport and intrinsic fluorescence in amyloid-like fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6208-6208.	3.3	2
48	Highly Sensitive Fluorescent pH Microsensors Based on the Ratiometric Dye Pyranine Immobilized on Silica Microparticles. Chemistry - A European Journal, 2021, 27, 13279-13279.	1.7	2
49	Interconnecting single nano-objects on surfaces for transport experiments. Journal of Vacuum Science & Technology B, 2006, 24, 2765.	1.3	1
50	Cytoskeletal alterations of parkin-mutant human primary fibroblasts. Journal of Biotechnology, 2014, 185, S27-S28.	1.9	0
51	Nanofibers: Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution (Small 48/2015). Small, 2015, 11, 6416-6416.	5.2	0
52	pH Monitoring: Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds (Small 34/2020). Small, 2020, 16, 2070187.	5.2	0
53	Promising 3D <i>in vitro</i> models for studying tumour heterogeneity and testing novel therapeutic approaches in pancreatic cancer. Biomedical Science and Engineering, 2021, 4, .	0.0	0
54	Abstract 1577: Gene expression studies using microgel embedded pancreatic cancer spheroids. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Abstract 2967: Microgel-based in vitro tumoroid platform for real time assessment of drug sensitivity and resistance. , 2020, , .		0