Loretta L L Del Mercato

List of Publications by Year
in descending order

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	Co-loading of doxorubicin and iron oxide nanocubes in polycaprolactone fibers for combining Magneto-Thermal and chemotherapeutic effects on cancer cells. Journal of Colloid and Interface Science, 2022, 607, 34-44.	5.0	27
2	Fully Automated Computational Approach for Precisely Measuring Organelle Acidification with Optical pH Sensors. ACS Applied Materials & Interfaces, 2022, 14, 18133-18149.	4.0	7
3	A pH-sensor scaffold for mapping spatiotemporal gradients in three-dimensional in vitro tumour models. Biosensors and Bioelectronics, 2022, 212, 114401.	5.3	6
4	The Revolutionary Roads to Study Cellâ€“Cell Interactions in 3D In Vitro Pancreatic Cancer Models. Cancers, 2021, 13, 930.	1.7	18
5	Highly Sensitive Fluorescent pH Microsensors Based on the Ratiometric Dye Pyranine Immobilized on Silica Microparticles. Chemistry - A European Journal, 2021, 27, 13318-13324.	1.7	10
6	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
7	Promising 3D in vitro models for studying tumour heterogeneity and testing novel therapeutic approaches in pancreatic cancer. Biomedical Science and Engineering, 2021, 4, .	0.0	0
8	Electrospun polyvinyl-alcohol/gum arabic nanofibers: Biomimetic platform for in vitro cell growth and cancer nanomedicine delivery. International Journal of Biological Macromolecules, 2021, 188, 764-773.	3.6	20
9	Optical and magnetic resonance imaging approaches for investigating the tumour microenvironment: state-of-the-art review and future trends. Nanotechnology, 2021, 32, 062001.	1.3	10
10	Mixing enhancement induced by viscoelastic micromotors in microfluidic platforms. Chemical Engineering Journal, 2020, 391, 123572.	6.6	15
11	A synergic approach to enhance long-term culture and manipulation of MiaPaCa-2 pancreatic cancer spheroids. Scientific Reports, 2020, 10, 10192.	1.6	32
12	Beyond gold nanoparticles cytotoxicity: Potential to impair metastasis hallmarks. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 157, 221-232.	2.0	9
13	pH Monitoring: Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additiveâ€Manufactured Scaffolds (Small 34/2020). Small, 2020, 16, 2070187.	5.2	0
14	Electrospun nanofibers in cancer research: from engineering ofin vitro3D cancer models to therapy. Biomaterials Science, 2020, 8, 4887-4905.	2.6	55
15	Fluorescent nanoparticles for sensing. Frontiers of Nanoscience, 2020, 16, 117-149.	0.3	16
16	Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additiveâ€Manufactured Scaffolds. Small, 2020, 16, e2002258.	5.2	14
17	Abstract 1577: Gene expression studies using microgel embedded pancreatic cancer spheroids. , 2020, , .		0
18	Abstract 2967: Microgel-basedin vitrotumoroid platform for real time assessment of drug sensitivity and resistance. , 2020, , .		0

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19	Towards the development of human immune-system-on-a-chip platforms. Drug Discovery Today, 2019, 24, 517-525.	3.2	75
20	Emerging Technologies for Cancer Research: Towards Personalized Medicine with Microfluidic Platforms and 3D Tumor Models. Current Medicinal Chemistry, 2018, 25, 4616-4637.	1.2	26
21	Highly Sensitive Membrane-Based Pressure Sensors (MePS) for Real-Time Monitoring of Catalytic Reactions. Analytical Chemistry, 2018, 90, 7659-7665.	3.2	7
22	Anticancer effects of novel resveratrol analogues on human ovarian cancer cells. Molecular BioSystems, 2017, 13, 1131-1141.	2.9	21
23	Self-powered catalytic microfluidic platforms for fluid delivery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 257-262.	2.3	3
24	Multilayered Magnetic Nanobeads for the Delivery of Peptides Molecules Triggered by Intracellular Proteases. ACS Applied Materials & Interfaces, 2017, 9, 35095-35104.	4.0	9
25	Design and characterization of microcapsules-integrated collagen matrixes as multifunctional three-dimensional scaffolds for soft tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 62, 209-221.	1.5	17
26	Biocompatible multilayer capsules engineered with a graphene oxide derivative: synthesis, characterization and cellular uptake. Nanoscale, 2016, 8, 7501-7512.	2.8	33
27	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometerâ€Scale Spatial Resolution. Small, 2015, 11, 6417-6424.	5.2	22
28	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
29	Advances in Use of Capsule-Based Fluorescent Sensors for Measuring Acidification of Endocytic Compartments in Cells with Altered Expression of V-ATPase Subunit V₁G₁. ACS Applied Materials & Interfaces, 2015, 7, 15052-15060.	4.0	24
30	Cytoskeletal Alterations and Biomechanical Properties of parkin-Mutant Human Primary Fibroblasts. Cell Biochemistry and Biophysics, 2015, 71, 1395-1404.	0.9	20
31	Catalytic Selfâ€Propulsion of Supramolecular Capsules Powered by Polyoxometalate Cargos. Chemistry - A European Journal, 2014, 20, 10910-10914.	1.7	45
32	Biological applications of LbL multilayer capsules: From drug delivery to sensing. Advances in Colloid and Interface Science, 2014, 207, 139-154.	7.0	121
33	Catalytic oxygen production mediated by smart capsules to modulate elastic turbulence under a laminar flow regime. Lab on A Chip, 2014, 14, 4391-4397.	3.1	13
34	Cytoskeletal alterations of parkin-mutant human primary fibroblasts. Journal of Biotechnology, 2014, 185, S27-S28.	1.9	0
35	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. Journal of Physical Chemistry C, 2011, 115, 6257-6264.	1.5	83
36	Synthesis and evaluation of gold nanoparticle-modified polyelectrolyte capsules under microwave irradiation for remotely controlled release for cargo. Journal of Materials Chemistry, 2011, 21, 11468.	6.7	37

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37	Multiplexed Sensing of Ions with Barcoded Polyelectrolyte Capsules. ACS Nano, 2011, 5, 9668-9674.	7.3	95
38	Synthesis and Characterization of Ratiometric Ionâ€Sensitive Polyelectrolyte Capsules. Small, 2011, 7, 351-363.	5.2	65
39	De Novo Design of Supercharged, Unfolded Protein Polymers, and Their Assembly into Supramolecular Aggregates. Macromolecular Rapid Communications, 2011, 32, 186-190.	2.0	46
40	LbL multilayer capsules: recent progress and future outlook for their use in life sciences. Nanoscale, 2010, 2, 458.	2.8	208
41	Nanopharmacy: Inorganic nanoscale devices as vectors and active compounds. Pharmacological Research, 2010, 62, 115-125.	3.1	171
42	Exploring Local Flexibility/Rigidity in Psychrophilic and Mesophilic Carbonic Anhydrases. Biophysical Journal, 2009, 96, 1586-1596.	0.2	54
43	One example on how colloidal nano- and microparticles could contribute to medicine. Nanomedicine, 2009, 4, 967-979.	1.7	42
44	Relaxation times of colloidal iron platinum in polymer matrixes. Journal of Materials Chemistry, 2009, 19, 6381.	6.7	19
45	Nanoparticle-modified polyelectrolyte capsules. Nano Today, 2008, 3, 12-21.	6.2	93
46	Interconnection of specific nano-objects by electron beam lithography â€" A controllable method. Materials Science and Engineering C, 2008, 28, 299-302.	3.8	2
47	Amyloid-like Fibrils in Elastin-Related Polypeptides: Structural Characterization and Elastic Properties. Biomacromolecules, 2008, 9, 796-803.	2.6	68
48	Correction for del Mercato et al. , 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
49	Charge transport and intrinsic fluorescence in amyloid-like fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18019-18024.	3.3	192
50	Fluorescence enhancement in colloidal semiconductor nanocrystals by metallic nanopatterns. Sensors and Actuators B: Chemical, 2007, 126, 187-192.	4.0	34
51	Fluorescence resonance energy transfer induced by conjugation of metalloproteins to nanoparticles. Chemical Physics Letters, 2006, 417, 351-357.	1.2	22
52	Interconnecting single nano-objects on surfaces for transport experiments. Journal of Vacuum Science & Technology B, 2006, 24, 2765.	1.3	1
53	Charge transport in disordered films of non-redox proteins. Journal of Chemical Physics, 2006, 125, 021103.	1.2	7
54	Ageing of solid-state protein films: Behavior of azurin at ambient conditions. Chemical Physics Letters, 2005, 404, 59-62.	1.2	8

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55	Effects of high external electric fields on protein conformation. , 2005, , .		2