

# Laura Pastorino

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5233261/publications.pdf>

Version: 2024-02-01

83  
papers

1,119  
citations

430874

18  
h-index

477307

29  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft chitosan microbeads scaffold for 3D functional neuronal networks. <i>Biomaterials</i> , 2018, 156, 159-171.	11.4	65
2	Lipase-catalyzed degradation of poly( $\mu$ -caprolactone). <i>Enzyme and Microbial Technology</i> , 2004, 35, 321-326.	3.2	59
3	Chitosan/dextran multilayer microcapsules for polyphenol co-delivery. <i>Materials Science and Engineering C</i> , 2015, 46, 374-380.	7.3	43
4	Collagen containing microcapsules: Smart containers for disease controlled therapy. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 56-62.	9.4	42
5	3D Porous Gelatin/PVA Hydrogel as Meniscus Substitute Using Alginate Micro-Particles as Porogens. <i>Polymers</i> , 2018, 10, 380.	4.5	40
6	Oriented collagen nanocoatings for tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 372-378.	5.0	39
7	New in-situ synthesized hydrogel composite based on alginate and brushite as a potential pH sensitive drug delivery system. <i>Carbohydrate Polymers</i> , 2017, 177, 324-333.	10.2	38
8	Nanoengineered polymeric S-layers based capsules with targeting activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 366-372.	5.0	37
9	Full Fabrication and Packaging of an Implantable Multi-Panel Device for Monitoring of Metabolites in Small Animals. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014, 8, 636-647.	4.0	34
10	Alginate microbeads with internal microvoids for the sustained release of drugs. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 454-461.	7.5	34
11	Adhesion and Proliferation of Osteoblast-Like Cells on Anodic Porous Alumina Substrates With Different Morphology. <i>IEEE Transactions on Nanobioscience</i> , 2013, 12, 106-111.	3.3	33
12	Smart Nanoengineered Polymeric Capsules as Ideal Pharmaceutical Carriers. <i>Current Organic Chemistry</i> , 2013, 17, 58-64.	1.6	32
13	Paclitaxel-Containing Nano-Engineered Polymeric Capsules Towards Cancer Therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6753-6759.	0.9	29
14	Disassembling the complexity of mucus barriers to develop a fast screening tool for early drug discovery. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4940-4952.	5.8	27
15	Encapsulated functionalized stereocomplex PLA particles: An effective system to support mucolytic enzymes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 190-198.	5.0	26
16	Characterization of alginate-brushite in-situ hydrogel composites. <i>Materials Science and Engineering C</i> , 2016, 67, 502-510.	7.3	22
17	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. <i>Biomaterials Science</i> , 2019, 8, 174-188.	5.4	22
18	Human osteoblast-like cells response to nanofunctionalized surfaces for tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 249-255.	3.4	20

#	ARTICLE	IF	CITATIONS
19	Biocatalytic Langmuir-Blodgett assemblies based on penicillin G acylase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 23, 357-363.	5.0	19
20	Complex catalytic colloids on the basis of firefly luciferase as optical nanosensor platform. <i>Biotechnology and Bioengineering</i> , 2003, 84, 286-291.	3.3	18
21	Nanofunctionalisation for the treatment of peripheral nervous system injuries. <i>IET Nanobiotechnology</i> , 2006, 153, 16.	2.1	18
22	Development of a piezoelectric immunosensor for the measurement of paclitaxel. <i>Journal of Immunological Methods</i> , 2006, 313, 191-198.	1.4	18
23	Fabrication and characterization of novel multilayered structures by stereocomplexion of poly(D-lactic acid)/poly(L-lactic acid) and self-assembly of polyelectrolytes. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 81-90.	2.8	18
24	Nanostructured polysaccharidic microcapsules for intracellular release of cisplatin. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 187-195.	7.5	18
25	Increase of catalytic activity of lipase towards olive oil by Langmuir-film immobilization of lipase. <i>Enzyme and Microbial Technology</i> , 2009, 44, 72-76.	3.2	17
26	Release kinetics of gold nanoparticles from collagen microcapsules by total reflection X-ray fluorescence. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 417, 83-88.	4.7	17
27	Biodegradable Defined Shaped Printed Polymer Microcapsules for Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2371-2381.	8.0	17
28	Dextran/poly-L-arginine multi-layered CaCO <sub>3</sub> -based nanosystem for vascular drug delivery. <i>International Journal of Biological Macromolecules</i> , 2021, 177, 548-558.	7.5	17
29	Preliminary electrochemical characterisation of cytochrome P4501A2-clozapine interaction. <i>IET Nanobiotechnology</i> , 2003, 150, 31.	2.1	16
30	Polyelectrolyte based molecular carriers: The role of self-assembled proteins in permeability properties. <i>Journal of Biomaterials Applications</i> , 2013, 28, 262-269.	2.4	15
31	A new approach to the deposition of nanostructured biocatalytic films. <i>Nanotechnology</i> , 2003, 14, 597-602.	2.6	14
32	Fabrication and Characterization of Chitosan and Pectin Nanostructured Multilayers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1067-1075.	2.2	14
33	Stereocomplex poly(lactic acid) nanocoated chitosan microparticles for the sustained release of hydrophilic drugs. <i>Materials Science and Engineering C</i> , 2017, 76, 1129-1135.	7.3	14
34	Characterization of Nanomaterials by Locally Determining Their Complex Permittivity with Scattering-Type Scanning Near-Field Optical Microscopy. <i>ACS Applied Nano Materials</i> , 2020, 3, 1250-1262.	5.0	14
35	Langmuir-Blodgett films of lipase for biocatalysis. <i>Materials Science and Engineering C</i> , 2002, 22, 419-422.	7.3	13
36	Investigation of integrin expression on the surface of osteoblast-like cells by atomic force microscopy. <i>Ultramicroscopy</i> , 2010, 110, 330-338.	1.9	13

#	ARTICLE	IF	CITATIONS
37	Assembly of chitosan-graphite oxide nanoplatelets core shell microparticles for advanced 3D scaffolds supporting neuronal networks growth. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111295.	5.0	13
38	A facile approach for the development of high mechanical strength 3D neuronal network scaffold based on chitosan and graphite nanoplatelets. <i>Carbohydrate Polymers</i> , 2021, 271, 118420.	10.2	12
39	Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. <i>Materials Letters</i> , 2016, 183, 105-108.	2.6	11
40	Hydrothermal synthesis of pectin derived nanoporous carbon material. <i>Materials Letters</i> , 2016, 171, 212-215.	2.6	11
41	Poly(styrene- co -maleic anhydride) nanoparticles as protein carriers. <i>Materials Letters</i> , 2018, 220, 241-244.	2.6	11
42	Fabrication of alginate modified brushite cement impregnated with antibiotic: Mechanical, thermal, and biological characterizations. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2063-2075.	4.0	11
43	On an effective approach to improve the properties and the drug release of chitosan-based microparticles. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 393-401.	7.5	11
44	Polyelectrolyte multilayers and capsules: S-layer functionalization for improving stability and biocompatibility. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 38, 1-8.	3.0	8
45	Engineered CaCO <sub>3</sub> nanoparticles with targeting activity: A simple approach for a vascular intended drug delivery system. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1683-1689.	1.7	8
46	Rapid generation of functional engineered 3D human neuronal assemblies: network dynamics evaluated by Micro-Electrodes Arrays. <i>Journal of Neural Engineering</i> , 2021, 18, .	3.5	8
47	Application of monolayer engineering for immobilization of penicillin G acylase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 23, 289-293.	5.0	7
48	Nanotechnology based targeted drug delivery. , 2010, 2010, 3731-2.		7
49	Permeability Variation Study in Collagen-Based Polymeric Capsules. <i>BioNanoScience</i> , 2011, 1, 192-197.	3.5	7
50	Towards the Fabrication of Polyelectrolyte-Based Nanocapsules for Bio-Medical Applications. <i>BioNanoScience</i> , 2016, 6, 496-501.	3.5	7
51	Self-assembly and recrystallization of bacterial S-layer proteins of <i>Bacillus sphaericus</i> and <i>Bacillus thuringiensis</i> on silicone, mica and quartz crystal supports. , 2010, 2010, 3739-42.		6
52	Functionalized biocompatible polyelectrolyte multilayers for drug delivery: In situ investigation of mechanical properties by dissipative quartz crystal microbalance. <i>Materials Science and Engineering C</i> , 2014, 35, 15-20.	7.3	6
53	Multilayered Polyelectrolyte Microcapsules: Interaction with the Enzyme Cytochrome C Oxidase. <i>PLoS ONE</i> , 2014, 9, e112192.	2.5	6
54	Permeability of S-layer coated polyelectrolyte capsules. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
55	Fabrication and packaging of a fully implantable biosensor array. , 2013, , .		4
56	Chitosan biopolymer: Alternative adhesion factor and scaffold matrix for 2D and 3D neuronal cultures. Biomedical Science and Engineering, 2020, , .	0.0	4
57	Liperoxide Nanoemulsion as Adjuvant in Cisplatin Cancer Therapy: In Vitro Study on Human Colon Adenocarcinoma DLD-1 Cells. Nanomaterials, 2021, 11, 1365.	4.1	4
58	Layer by layer self assembly of Polyelectrolytes and S-layers. , 2010, , .		3
59	Letter to editor for supporting "Characterization of alginate-brushite in-situ hydrogel composites", Materials Science and Engineering C, 2017, 74, 410-412.	7.3	3
60	Image-Based Tracking of Anticancer Drug-Loaded Nanoengineered Polyelectrolyte Capsules in Cellular Environments Using a Fast Benchtop Mid-Infrared (MIR) Microscope. ACS Omega, 2018, 3, 6143-6150.	3.5	3
61	Biomimetic structures: Incorporation of active bio-molecules in polyelectrolyte shells. , 2012, , .		2
62	Nanoengineered polymeric capsules as elements of unconventional computing systems. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 175-180.	0.8	2
63	Nanoengineered polymeric capsules for bio-computing. AIP Conference Proceedings, 2015, , .	0.4	2
64	Osteoblast-like cells response to layer by layer self assembled biomimetic coatings. , 2007, , .		1
65	Development of a piezoelectric immunosensor for matrix metalloproteinase-1 detection. , 2009, 2009, 2775-8.		1
66	Development of nanostructured magnetic capsules by means of the layer by layer technique. , 2010, 2010, 6477-80.		1
67	3D engineered neural networks coupled to Micro-Electrode based devices: a new experimental model for neurophysiological applications. , 2015, , .		1
68	Enzymatic degradation of chitosan scaffold supporting 3D neuronal networks. Materials Letters, 2022, 308, 131196.	2.6	1
69	Multicompartment Hydrogels for the Local Delivery of Chemotherapeutic Drugs. Studies in Health Technology and Informatics, 2019, 261, 261-265.	0.3	1
70	Layer by Layer Self-Assembly of Immunoglobulins for Piezoelectric Biosensors. , 2007, , .		0
71	Nanostructured Thin Films for the Development of Piezoelectric Immunosensors. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2257-60.	0.5	0
72	Functionalised AFM Probes for the Investigation of Integrin Distribution on the Surface of Osteosarcoma-Derived Osteoblasts. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
73	Protein Thin Films. , 2010, , 97-168.		0
74	Polyelectrolyte multilayer coatings for implant osseointegration. , 2013, , .		0
75	Biomimetic polyelectrolyte multilayer ultrathin films to promote osseointegration. , 2013, , .		0
76	Self-assembled polyelectrolyte capsule for drug delivery: In vitro evaluation of their interaction with cell. , 2014, , .		0
77	Electrospun chitosan nanofibers for tissue engineering. , 2014, , .		0
78	Peroxidated olive oil nanoemulsion for cancer targeted therapy. , 2015, 2015, 2580-3.		0
79	On The Decoration of Layer-By-Layer Films for the X-Ray Reflectivity Study at the Solid-Liquid Interface. BioNanoScience, 2015, 5, 39-41.	3.5	0
80	Enzyme-induced pore formation in smart polymeric micro-containers for drug design and programming of biochemical computers. , 2015, , .		0
81	Ultrathin Films by LbL Self-assembly for Biomimetic Coatings of Implants. IFMBE Proceedings, 2014, , 1609-1612.	0.3	0
82	Smart containers for reagents delivery and release in bio-chemical computational systems. Sample of Science, 2014, 1, .	0.0	0
83	Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. , 2019, , .		0