

Luca Digiacomo

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

3,048
citations

201575

27
h-index

168321

53
g-index

71
all docs

71
docs citations

71
times ranked

3972
citing authors

#	ARTICLE	IF	CITATIONS
1	The protein corona of circulating PEGylated liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 189-196.	1.4	178
2	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , 2014, 5, 5891.	5.8	175
3	Fast spatiotemporal correlation spectroscopy to determine protein lateral diffusion laws in live cell membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12307-12312.	3.3	160
4	Interplay of protein corona and immune cells controls blood residency of liposomes. <i>Nature Communications</i> , 2019, 10, 3686.	5.8	160
5	The intracellular trafficking mechanism of Lipofectamine-based transfection reagents and its implication for gene delivery. <i>Scientific Reports</i> , 2016, 6, 25879.	1.6	158
6	Selective Targeting Capability Acquired with a Protein Corona Adsorbed on the Surface of 1,2-Dioleoyl-3-trimethylammonium Propane/DNA Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13171-13179.	4.0	150
7	The biomolecular corona of nanoparticles in circulating biological media. <i>Nanoscale</i> , 2015, 7, 13958-13966.	2.8	127
8	Personalized liposomeâ€“protein corona in the blood of breast, gastric and pancreatic cancer patients. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 180-187.	1.2	112
9	Transfection efficiency boost of cholesterol-containing lipoplexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2335-2343.	1.4	102
10	Stealth Effect of Biomolecular Corona on Nanoparticle Uptake by Immune Cells. <i>Langmuir</i> , 2015, 31, 10764-10773.	1.6	102
11	Cholesterol-Dependent Macropinocytosis and Endosomal Escape Control the Transfection Efficiency of Lipoplexes in CHO Living Cells. <i>Molecular Pharmaceutics</i> , 2012, 9, 334-340.	2.3	90
12	Influence of dynamic flow environment on nanoparticle-protein corona: From protein patterns to uptake in cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 263-271.	2.5	86
13	A protein corona-enabled blood test for early cancer detection. <i>Nanoscale</i> , 2017, 9, 349-354.	2.8	77
14	Nanoparticles-cell association predicted by protein corona fingerprints. <i>Nanoscale</i> , 2016, 8, 12755-12763.	2.8	75
15	Clinically approved PEGylated nanoparticles are covered by a protein corona that boosts the uptake by cancer cells. <i>Nanoscale</i> , 2017, 9, 10327-10334.	2.8	74
16	An apolipoprotein-enriched biomolecular corona switches the cellular uptake mechanism and trafficking pathway of lipid nanoparticles. <i>Nanoscale</i> , 2017, 9, 17254-17262.	2.8	73
17	Disease-specific protein corona sensor arrays may have disease detection capacity. <i>Nanoscale Horizons</i> , 2019, 4, 1063-1076.	4.1	68
18	Microfluidic manufacturing of surface-functionalized graphene oxide nanoflakes for gene delivery. <i>Nanoscale</i> , 2019, 11, 2733-2741.	2.8	67

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19	In vivo protein corona patterns of lipid nanoparticles. RSC Advances, 2017, 7, 1137-1145.	1.7	59
20	Brain Targeting by Liposomeâ€“Biomolecular Corona Boosts Anticancer Efficacy of Temozolomide in Glioblastoma Cells. ACS Chemical Neuroscience, 2018, 9, 3166-3174.	1.7	53
21	Human Biomolecular Corona of Liposomal Doxorubicin: The Overlooked Factor in Anticancer Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 22951-22962.	4.0	51
22	Personalized Graphene Oxide-Protein Corona in the Human Plasma of Pancreatic Cancer Patients. Frontiers in Bioengineering and Biotechnology, 2020, 8, 491.	2.0	45
23	Impact of the protein corona on nanomaterial immune response and targeting ability. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1615.	3.3	44
24	Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. Nanoscale, 2019, 11, 15339-15346.	2.8	42
25	The biomolecular corona of gold nanoparticles in a controlled microfluidic environment. Lab on A Chip, 2019, 19, 2557-2567.	3.1	40
26	Protein Corona Fingerprints of Liposomes: New Opportunities for Targeted Drug Delivery and Early Detection in Pancreatic Cancer. Pharmaceutics, 2019, 11, 31.	2.0	39
27	The role of helper lipids in the intracellular disposition and transfection efficiency of niosome formulations for gene delivery to retinal pigment epithelial cells. International Journal of Pharmaceutics, 2016, 503, 115-126.	2.6	34
28	Oponin-Deficient Nucleoproteic Corona Endows UnPEGylated Liposomes with Stealth Properties <i>in Vivo</i> . ACS Nano, 2022, 16, 2088-2100.	7.3	28
29	Manipulation of lipoplex concentration at the cell surface boosts transfection efficiency in hard-to-transfect cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 681-691.	1.7	25
30	Exploitation of nanoparticle-protein interactions for early disease detection. Applied Physics Letters, 2019, 114, 163702.	1.5	25
31	Microfluidic Formulation of DNA-Loaded Multicomponent Lipid Nanoparticles for Gene Delivery. Pharmaceutics, 2021, 13, 1292.	2.0	25
32	Impact of the biomolecular corona on the structure of PEGylated liposomes. Biomaterials Science, 2017, 5, 1884-1888.	2.6	24
33	Insulin secretory granules labelled with phogrin-fluorescent proteins show alterations in size, mobility and responsiveness to glucose stimulation in living β^2 -cells. Scientific Reports, 2019, 9, 2890.	1.6	24
34	Intracellular trafficking of cationic liposomeâ€“DNA complexes in living cells. Soft Matter, 2012, 8, 7919.	1.2	22
35	The role of cytoskeleton networks on lipid-mediated delivery of DNA. Therapeutic Delivery, 2013, 4, 191-202.	1.2	22
36	Nanoparticleâ€“biomolecular corona: A new approach for the early detection of nonâ€“smallâ€“cell lung cancer. Journal of Cellular Physiology, 2019, 234, 9378-9386.	2.0	22

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37	The role of sex as a biological variable in the efficacy and toxicity of therapeutic nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 337-347.	6.6	21
38	Synergistic Analysis of Protein Corona and Haemoglobin Levels Detects Pancreatic Cancer. <i>Cancers</i> , 2021, 13, 93.	1.7	21
39	Mechanistic Insights into the Release of Doxorubicin from Graphene Oxide in Cancer Cells. <i>Nanomaterials</i> , 2020, 10, 1482.	1.9	20
40	Dynamic fingerprinting of sub-cellular nanostructures by image mean square displacement analysis. <i>Scientific Reports</i> , 2017, 7, 14836.	1.6	18
41	Immune complexes exposed on mast cell-derived nanovesicles amplify allergic inflammation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1260-1263.	2.7	18
42	Spatiotemporal Fluctuation Analysis: A Powerful Tool for the Future Nanoscopy of Molecular Processes. <i>Biophysical Journal</i> , 2016, 111, 679-685.	0.2	17
43	Effect of molecular crowding on the biological identity of liposomes: an overlooked factor at the bio-nano interface. <i>Nanoscale Advances</i> , 2019, 1, 2518-2522.	2.2	17
44	A protein corona sensor array detects breast and prostate cancers. <i>Nanoscale</i> , 2020, 12, 16697-16704.	2.8	17
45	Time-lapse confocal imaging datasets to assess structural and dynamic properties of subcellular nanostructures. <i>Scientific Data</i> , 2018, 5, 180191.	2.4	16
46	Capturing Metabolism-Dependent Solvent Dynamics in the Lumen of a Trafficking Lysosome. <i>ACS Nano</i> , 2019, 13, 1670-1682.	7.3	15
47	Effect of Protein Corona on The Transfection Efficiency of Lipid-Coated Graphene Oxide-Based Cell Transfection Reagents. <i>Pharmaceutics</i> , 2020, 12, 113.	2.0	15
48	Development of an image Mean Square Displacement (iMSD)-based method as a novel approach to study the intracellular trafficking of nanoparticles. <i>Acta Biomaterialia</i> , 2016, 42, 189-198.	4.1	14
49	Metabolic response of Insulinoma 1E cells to glucose stimulation studied by fluorescence lifetime imaging. <i>FASEB BioAdvances</i> , 2020, 2, 409-418.	1.3	12
50	Optimal centrifugal isolating of liposome-protein complexes from human plasma. <i>Nanoscale Advances</i> , 2021, 3, 3824-3834.	2.2	12
51	Inhibiting the Growth of 3D Brain Cancer Models with Bio-Coronated Liposomal Temozolomide. <i>Pharmaceutics</i> , 2021, 13, 378.	2.0	12
52	From Fast Fluorescence Imaging to Molecular Diffusion Law on Live Cell Membranes in a Commercial Microscope. <i>Journal of Visualized Experiments</i> , 2014, , e51994.	0.2	11
53	Cationic lipid/DNA complexes manufactured by microfluidics and bulk self-assembly exhibit different transfection behavior. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 508-512.	1.0	11
54	Effect of Glucose on Liposome-Plasma Protein Interactions: Relevance for the Physiological Response of Clinically Approved Liposomal Formulations. <i>Advanced Biology</i> , 2019, 3, e1800221.	3.0	11

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55	Protein corona profile of graphene oxide allows detection of glioblastoma multiforme using a simple one-dimensional gel electrophoresis technique: a proof-of-concept study. <i>Biomaterials Science</i> , 2021, 9, 4671-4678.	2.6	11
56	The Possible Role of Sex As an Important Factor in Development and Administration of Lipid Nanomedicine-Based COVID-19 Vaccine. <i>Molecular Pharmaceutics</i> , 2021, 18, 2448-2453.	2.3	11
57	Detection of Pancreatic Ductal Adenocarcinoma by Ex Vivo Magnetic Levitation of Plasma Protein-Coated Nanoparticles. <i>Cancers</i> , 2021, 13, 5155.	1.7	11
58	Fluorescence lifetime microscopy unveils the supramolecular organization of liposomal Doxorubicin. <i>Nanoscale</i> , 2022, 14, 8901-8905.	2.8	11
59	A mechanistic explanation of the inhibitory role of the protein corona on liposomal gene expression. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183159.	1.4	10
60	Efficient pancreatic cancer detection through personalized protein corona of gold nanoparticles. <i>Biointerphases</i> , 2021, 16, 011010.	0.6	10
61	A Proteomic Study on the Personalized Protein Corona of Liposomes. Relevance for Early Diagnosis of Pancreatic DUCTAL Adenocarcinoma and Biomarker Detection. <i>Journal of Nanotheranostics</i> , 2021, 2, 82-93.	1.7	10
62	Lysosome Dynamic Properties during Neuronal Stem Cell Differentiation Studied by Spatiotemporal Fluctuation Spectroscopy and Organelle Tracking. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3397.	1.8	8
63	Magnetic Levitation of Personalized Nanoparticleâ€“Protein Corona as an Effective Tool for Cancer Detection. <i>Nanomaterials</i> , 2022, 12, 1397.	1.9	8
64	Magnetic Levitation Patterns of Microfluidic-Generated Nanoparticleâ€“Protein Complexes. <i>Nanomaterials</i> , 2022, 12, 2376.	1.9	7
65	Î²-Cell Pathophysiology: A Review of Advanced Optical Microscopy Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12820.	1.8	5
66	Probing labeling-induced lysosome alterations in living cells by imaging-derived mean squared displacement analysis. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2704-2709.	1.0	4
67	Spatiotemporal Correlation Spectroscopy Reveals a Protective Effect of Peptide-Based GLP-1 Receptor Agonism against Lipotoxicity on Insulin Granule Dynamics in Primary Human Î²-Cells. <i>Pharmaceutics</i> , 2021, 13, 1403.	2.0	2
68	Intracellular Dynamics of Nanoparticles Probed by an Image-Derived Mean Square Displacement Approach. <i>Biophysical Journal</i> , 2017, 112, 296a-297a.	0.2	0
69	Measuring Molecular Diffusion in Dynamic Subcellular Nanostructures by Fast Raster Image Correlation Spectroscopy and 3D Orbital Tracking. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7623.	1.8	0