

Valentina Palmieri

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

3,236
citations

136950

32
h-index

161849

54
g-index

101
all docs

101
docs citations

101
times ranked

5082
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles for optimization and validation of mRNA lipid nanoparticle vaccines against COVID-19 using 3D bioprinting. <i>Nano Today</i> , 2022, 43, 101403.	11.9	26
2	INSIDIA 2.0 High-Throughput Analysis of 3D Cancer Models: Multiparametric Quantification of Graphene Quantum Dots Photothermal Therapy for Glioblastoma and Pancreatic Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3217.	4.1	9
3	3D-printed graphene polylactic acid devices resistant to SARS-CoV-2: Sunlight-mediated sterilization of additive manufactured objects. <i>Carbon</i> , 2022, 194, 34-41.	10.3	14
4	Opportunities Offered by Graphene Nanoparticles for MicroRNAs Delivery for Amyotrophic Lateral Sclerosis Treatment. <i>Materials</i> , 2022, 15, 126.	2.9	5
5	PE_PGRS3 ensures provision of the vital phospholipids cardiolipin and phosphatidylinositols by promoting the interaction between <i>M. tuberculosis</i> and host cells. <i>Virulence</i> , 2021, 12, 868-884.	4.4	6
6	Functionalized Graphene Quantum Dots Modulate Malignancy of Glioblastoma Multiforme by Downregulating Neurospheres Formation. <i>Journal of Carbon Research</i> , 2021, 7, 4.	2.7	4
7	Inhibiting the Growth of 3D Brain Cancer Models with Bio-Coronated Liposomal Temozolomide. <i>Pharmaceutics</i> , 2021, 13, 378.	4.5	12
8	Face masks and nanotechnology: Keep the blue side up. <i>Nano Today</i> , 2021, 37, 101077.	11.9	83
9	Graphene nanoplatelet and graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2. <i>IScience</i> , 2021, 24, 102788.	4.1	59
10	Nanofeatures of orthopedic implant surfaces. <i>Nanomedicine</i> , 2021, 16, 1733-1736.	3.3	3
11	In situ N-acetylcysteine release from polyvinyl alcohol film for moisture-activated food packaging. <i>Food Packaging and Shelf Life</i> , 2021, 29, 100694.	7.5	3
12	Laser-Mediated antibacterial effects of Few- and Multi-Layer Ti3C2Tx MXenes. <i>Applied Surface Science</i> , 2021, 567, 150795.	6.1	48
13	Biosynthesis and physico-chemical characterization of high performing peptide hydrogels@graphene oxide composites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 111989.	5.0	6
14	Biocompatibility assessment of sub-5 nm silica-coated superparamagnetic iron oxide nanoparticles in human stem cells and in mice for potential application in nanomedicine. <i>Nanoscale</i> , 2020, 12, 1759-1778.	5.6	36
15	Antimicrobial and Antibiofilm Properties of Graphene Oxide on <i>Enterococcus faecalis</i> . <i>Antibiotics</i> , 2020, 9, 692.	3.7	13
16	Graphene Oxide-Linezolid Combination as Potential New Anti-Tuberculosis Treatment. <i>Nanomaterials</i> , 2020, 10, 1431.	4.1	20
17	Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. <i>Materials</i> , 2020, 13, 4139.	2.9	28
18	Graphene Quantum Dots™ Surface Chemistry Modulates the Sensitivity of Glioblastoma Cells to Chemotherapeutics. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6301.	4.1	32

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19	A comparative experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid and N-acetyl cysteine for biomedical applications. <i>Materials Advances</i> , 2020, 1, 2745-2754.	5.4	13
20	Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. <i>Communications Physics</i> , 2020, 3, .	5.3	14
21	Expression of Pinopodes in the Endometrium from Recurrent Pregnancy Loss Women. Role of Thrombomodulin and Ezrin. <i>Journal of Clinical Medicine</i> , 2020, 9, 2634.	2.4	15
22	Celecoxib Exerts Neuroprotective Effects in β -Amyloid-Treated SH-SY5Y Cells Through the Regulation of Heme Oxygenase-1: Novel Insights for an Old Drug. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 561179.	3.7	16
23	Can graphene take part in the fight against COVID-19?. <i>Nano Today</i> , 2020, 33, 100883.	11.9	200
24	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3712.	4.1	77
25	3D Graphene Scaffolds for Skeletal Muscle Regeneration: Future Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 383.	4.1	28
26	Graphene-based scaffolds for tissue engineering and photothermal therapy. <i>Nanomedicine</i> , 2020, 15, 1411-1417.	3.3	32
27	Graphene Oxide Nano-Concentrators Selectively Modulate RNA Trapping According to Metal Cations in Solution. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 421.	4.1	8
28	Circulating miRNAs in Small Extracellular Vesicles Secreted by a Human Melanoma Xenograft in Mouse Brains. <i>Cancers</i> , 2020, 12, 1635.	3.7	9
29	3D-printed graphene for bone reconstruction. <i>2D Materials</i> , 2020, 7, 022004.	4.4	27
30	The biomechanics of the umbilical cord Wharton Jelly: Roles in hemodynamic proficiency and resistance to compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103377.	3.1	8
31	Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. <i>Nanoscale</i> , 2019, 11, 15339-15346.	5.6	42
32	Efficient Spatial Sampling for AFM-Based Cancer Diagnostics: A Comparison between Neural Networks and Conventional Data Analysis. <i>Condensed Matter</i> , 2019, 4, 58.	1.8	13
33	Dynamic structural determinants underlie the neurotoxicity of the N-terminal tau 26-44 peptide in Alzheimer's disease and other human tauopathies. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 278-289.	7.5	16
34	Carbon nanomaterials: a new way against tuberculosis. <i>Expert Review of Medical Devices</i> , 2019, 16, 863-875.	2.8	16
35	Microfluidic manufacturing of surface-functionalized graphene oxide nanoflakes for gene delivery. <i>Nanoscale</i> , 2019, 11, 2733-2741.	5.6	67
36	Graphene oxide touches blood: <i>in vivo</i> interactions of bio-coronated 2D materials. <i>Nanoscale Horizons</i> , 2019, 4, 273-290.	8.0	97

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37	Disease-specific protein corona sensor arrays may have disease detection capacity. <i>Nanoscale Horizons</i> , 2019, 4, 1063-1076.	8.0	68
38	Microfluidic-generated lipid-graphene oxide nanoparticles for gene delivery. <i>Applied Physics Letters</i> , 2019, 114, 233701.	3.3	21
39	Exploitation of nanoparticle-protein interactions for early disease detection. <i>Applied Physics Letters</i> , 2019, 114, 163702.	3.3	25
40	Biocompatible <i>N</i> -acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger. <i>Chemical Communications</i> , 2019, 55, 4186-4189.	4.1	25
41	Graphene oxide prevents mycobacteria entry into macrophages through extracellular entrapment. <i>Nanoscale Advances</i> , 2019, 1, 1421-1431.	4.6	28
42	Optical Neural Network by Disordered Tumor Spheroids. , 2019, , .		2
43	Optical neural network for cancer morphodynamics sensing. , 2019, , .		1
44	Caveolin-1, a driver of invasive phenotype in in-vitro 3D-spheroid assays comprised of high grade GBM cells association with an AKT-inhibited phenotype. <i>Neuro-Oncology</i> , 2018, 20, i13-i13.	1.2	0
45	Curcumin-loaded graphene oxide flakes as an effective antibacterial system against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Interface Focus</i> , 2018, 8, 20170059.	3.0	61
46	Antibacterial Properties of Curcumin Loaded Graphene Oxide Flakes. <i>Biophysical Journal</i> , 2018, 114, 362a.	0.5	3
47	Graphene Oxide Laser Printing for Controlled STEM Cells Differentiation and Antibacterial Effects. <i>Biophysical Journal</i> , 2018, 114, 362a-363a.	0.5	0
48	Neural Network Approach for the Analysis of AFM Force-Distance Curves for Brain Cancer Diagnosis. <i>Biophysical Journal</i> , 2018, 114, 353a.	0.5	3
49	Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. <i>2D Materials</i> , 2018, 5, 015027.	4.4	32
50	P1016Ventricular arrhythmias in athletes and non-athletes: diagnostic role of electroanatomic mapping and CARTO-guided endomyocardial biopsy. <i>European Heart Journal</i> , 2018, 39, .	2.2	0
51	Graphene oxide coatings prevent <i>Candida albicans</i> biofilm formation with a controlled release of curcumin-loaded nanocomposites. <i>Nanomedicine</i> , 2018, 13, 2867-2879.	3.3	57
52	Graphene Oxide Induced Osteogenesis Quantification by In-Situ 2D-Fluorescence Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3336.	4.1	12
53	PE_PGRS3 of <i>Mycobacterium tuberculosis</i> is specifically expressed at low phosphate concentration, and its arginine-rich C-terminal domain mediates adhesion and persistence in host tissues when expressed in <i>Mycobacterium smegmatis</i> . <i>Cellular Microbiology</i> , 2018, 20, e12952.	2.1	24
54	Nanoscale mechanics of brain abscess: An atomic force microscopy study. <i>Micron</i> , 2018, 113, 34-40.	2.2	19

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55	Expression profiling in a mammalian host reveals the strong induction of genes encoding LysM domain-containing proteins in <i>Enterococcus faecium</i> . <i>Scientific Reports</i> , 2018, 8, 12412.	3.3	9
56	Human Biomolecular Corona of Liposomal Doxorubicin: The Overlooked Factor in Anticancer Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22951-22962.	8.0	51
57	Nonlinear optics, optomechanics, and antibacterial coating by graphene oxide. , 2017, , .		0
58	Bacteria Meet Graphene: Modulation of Graphene Oxide Nanosheet Interaction with Human Pathogens for Effective Antimicrobial Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 619-627.	5.2	115
59	Clinically approved PEGylated nanoparticles are covered by a protein corona that boosts the uptake by cancer cells. <i>Nanoscale</i> , 2017, 9, 10327-10334.	5.6	74
60	Î±-Dystroglycan hypoglycosylation affects cell migration by influencing Î²-dystroglycan membrane clustering and filopodia length: A multiscale confocal microscopy analysis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2182-2191.	3.8	12
61	Differentiation Affects the Release of Exosomes from Colon Cancer Cells and Their Ability to Modulate the Behavior of Recipient Cells. <i>American Journal of Pathology</i> , 2017, 187, 1633-1647.	3.8	42
62	Graphene-Oxide Gel as Biomimetic Antimicrobial Cloak. <i>Biophysical Journal</i> , 2017, 112, 589a.	0.5	0
63	Modulation of Graphene Oxide Probiotic and Antibiotic Activity by Critical Coagulation Concentration. <i>Biophysical Journal</i> , 2017, 112, 156a-157a.	0.5	0
64	The graphene oxide contradictory effects against human pathogens. <i>Nanotechnology</i> , 2017, 28, 152001.	2.6	84
65	A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	47
66	Different effects of matrix degrading enzymes towards biofilms formed by <i>E. faecalis</i> and <i>E. faecium</i> clinical isolates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 349-355.	5.0	31
67	INSIDIA: A Fiji Macro Delivering High-Throughput and High-Content Spheroid Invasion Analysis. <i>Biotechnology Journal</i> , 2017, 12, 1700140.	3.5	32
68	Nano-Mechanical Response of Red Blood Cells. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 11-16.	0.5	4
69	Mechanic Adaptability of Metastatic Cells in Colon Cancer. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 1-9.	0.5	0
70	Optical supercavitation in graphene-oxide hydrogel for antimicrobial cloaks. , 2017, , .		0
71	Changes in cellular mechanical properties during onset or progression of colorectal cancer. <i>World Journal of Gastroenterology</i> , 2016, 22, 7203.	3.3	55
72	Estradiol protective role in atherogenesis through LDL structure modification. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 285402.	2.8	2

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73	Biomimetic antimicrobial cloak by graphene-oxide agar hydrogel. Scientific Reports, 2016, 6, 12.	3.3	143
74	Quantitative Analysis of Autophagic Flux by Ratiometric pH-Imaging of Autophagic Intermediates. Biophysical Journal, 2016, 110, 596a.	0.5	0
75	Role of AL, FE, CU in the Alterations of Mechanical Properties of Cortical Neurons Probed by Atomic Force Microscopy. Biophysical Journal, 2016, 110, 148a.	0.5	0
76	Nanoscale Mapping of the Biomechanical Behavior in Healthy and Pathological Erythrocytes. Biophysical Journal, 2016, 110, 308a.	0.5	0
77	The future development of bacteria fighting medical devices: the role of graphene oxide. Expert Review of Medical Devices, 2016, 13, 1013-1019.	2.8	83
78	<i>In vitro</i> effect of clarithromycin and alginate lyase against <i>helicobacter pylori</i> biofilm. Biotechnology Progress, 2016, 32, 1584-1591.	2.6	25
79	Towards a "Green" Antimicrobial Therapy: Study of Graphene Nanosheets Interaction with Human Pathogens. Biophysical Journal, 2016, 110, 530a.	0.5	0
80	Plasma Protein Corona Reduces the Haemolytic Activity of the Graphene Oxide Nano and Micro Flakes. Biophysical Journal, 2016, 110, 167a.	0.5	1
81	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	2.9	44
82	Modulation of the \pm -Crystallin Chaperon Activity Induced by Changes in the Exposed Surface. Biophysical Journal, 2015, 108, 53a.	0.5	0
83	VP6-SUMO Self-Assembly as Nanocarriers for Gastrointestinal Delivery. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	7
84	Effect of Alginate Lyase on Biofilm-Grown <i>Helicobacter pylori</i> Probed by Atomic Force Microscopy. International Journal of Polymer Science, 2015, 2015, 1-9.	2.7	288
85	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. Nano-Micro Letters, 2015, 7, 146-151.	27.0	9
86	Mechanical and structural comparison between primary tumor and lymph node metastasis cells in colorectal cancer. Soft Matter, 2015, 11, 5719-5726.	2.7	72
87	Stearoyl-CoA desaturase 1 and paracrine diffusible signals have a major role in the promotion of breast cancer cell migration induced by cancer-associated fibroblasts. British Journal of Cancer, 2015, 112, 1675-1686.	6.4	36
88	Plasma protein corona reduces the haemolytic activity of graphene oxide nano and micro flakes. RSC Advances, 2015, 5, 81638-81641.	3.6	48
89	Mapping viscoelastic properties of healthy and pathological red blood cells at the nanoscale level. Nanoscale, 2015, 7, 17030-17037.	5.6	86
90	Impact of Protein Domains on PE_PGSR30 Polar Localization in Mycobacteria. PLoS ONE, 2014, 9, e112482.	2.5	29

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91	Synthesis and characterization of different immunogenic viral nanoconstructs from rotavirus VP6 inner capsid protein. <i>International Journal of Nanomedicine</i> , 2014, 9, 2727.	6.7	19
92	Biomechanical investigation of colorectal cancer cells. <i>Applied Physics Letters</i> , 2014, 105, 123701.	3.3	34
93	Dynamic light scattering for the characterization and counting of extracellular vesicles: a powerful noninvasive tool. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	88
94	Time evolution of noise induced oxidation in outer hair cells: Role of NAD(P)H and plasma membrane fluidity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2192-2202.	2.4	45
95	Crystallin Modulates its Chaperone Activity by Varying the Exposed Surface. <i>ChemBioChem</i> , 2013, 14, 2362-2370.	2.6	11
96	Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. <i>Nanotechnology</i> , 2013, 24, 495302.	2.6	30
97	Analysis of the endocannabinoidome in peripheral tissues of obese Zucker rats. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2013, 89, 127-135.	2.2	41
98	Controlled self assembly of collagen nanoparticle. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6141-6147.	1.9	42