Valentina Palmieri

List of Publications by Year
in descending order

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	Effect of Alginate Lyase on Biofilm-GrownHelicobacter pyloriProbed by Atomic Force Microscopy. International Journal of Polymer Science, 2015, 2015, 1-9.	2.7	288
2	Can graphene take part in the fight against COVID-19?. Nano Today, 2020, 33, 100883.	11.9	200
3	Biomimetic antimicrobial cloak by graphene-oxide agar hydrogel. Scientific Reports, 2016, 6, 12.	3.3	143
4	Bacteria Meet Graphene: Modulation of Graphene Oxide Nanosheet Interaction with Human Pathogens for Effective Antimicrobial Therapy. ACS Biomaterials Science and Engineering, 2017, 3, 619-627.	5.2	115
5	Graphene oxide touches blood: in vivo interactions of bio-coronated 2D materials. Nanoscale Horizons, 2019, 4, 273-290.	8.0	97
6	Dynamic light scattering for the characterization and counting of extracellular vesicles: a powerful noninvasive tool. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	88
7	Mapping viscoelastic properties of healthy and pathological red blood cells at the nanoscale level. Nanoscale, 2015, 7, 17030-17037.	5.6	86
8	The graphene oxide contradictory effects against human pathogens. Nanotechnology, 2017, 28, 152001.	2.6	84
9	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
10	Face masks and nanotechnology: Keep the blue side up. Nano Today, 2021, 37, 101077.	11.9	83
11	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. International Journal of Molecular Sciences, 2020, 21, 3712.	4.1	77
12	Clinically approved PEGylated nanoparticles are covered by a protein corona that boosts the uptake by cancer cells. Nanoscale, 2017, 9, 10327-10334.	5.6	74
13	Mechanical and structural comparison between primary tumor and lymph node metastasis cells in colorectal cancer. Soft Matter, 2015, 11, 5719-5726.	2.7	72
14	Disease-specific protein corona sensor arrays may have disease detection capacity. Nanoscale Horizons, 2019, 4, 1063-1076.	8.0	68
15	Microfluidic manufacturing of surface-functionalized graphene oxide nanoflakes for gene delivery. Nanoscale, 2019, 11, 2733-2741.	5.6	67
16	Curcumin-loaded graphene oxide flakes as an effective antibacterial system against methicillin-resistant Staphylococcus aureus. Interface Focus, 2018, 8, 20170059.	3.0	61
17	Graphene nanoplatelet and graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2. IScience, 2021, 24, 102788.	4.1	59
18	Graphene oxide coatings prevent Candida albicans biofilm formation with a controlled release of curcumin-loaded nanocomposites. Nanomedicine, 2018, 13, 2867-2879.	3.3	57

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19	Changes in cellular mechanical properties during onset or progression of colorectal cancer. World Journal of Gastroenterology, 2016, 22, 7203.	3.3	55
20	Human Biomolecular Corona of Liposomal Doxorubicin: The Overlooked Factor in Anticancer Drug Delivery. ACS Applied Materials & Interfaces, 2018, 10, 22951-22962.	8.0	51
21	Plasma protein corona reduces the haemolytic activity of graphene oxide nano and micro flakes. RSC Advances, 2015, 5, 81638-81641.	3.6	48
22	Laser-Mediated antibacterial effects of Few- and Multi-Layer Ti3C2Tx MXenes. Applied Surface Science, 2021, 567, 150795.	6.1	48
23	A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. Applied Physics Letters, 2017, 111, .	3.3	47
24	Time evolution of noise induced oxidation in outer hair cells: Role of NAD(P)H and plasma membrane fluidity. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2192-2202.	2.4	45
25	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	2.9	44
26	Controlled self assembly of collagen nanoparticle. Journal of Nanoparticle Research, 2011, 13, 6141-6147.	1.9	42
27	Differentiation Affects the Release of Exosomes from Colon Cancer Cells and Their Ability to Modulate the Behavior of Recipient Cells. American Journal of Pathology, 2017, 187, 1633-1647.	3.8	42
28	Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. Nanoscale, 2019, 11, 15339-15346.	5.6	42
29	Analysis of the â€œendocannabinoidomeâ€•in peripheral tissues of obese Zucker rats. Prostaglandins Leukotrienes and Essential Fatty Acids, 2013, 89, 127-135.	2.2	41
30	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
31	Biocompatibility assessment of sub-5 nm silica-coated superparamagnetic iron oxide nanoparticles in human stem cells and in mice for potential application in nanomedicine. Nanoscale, 2020, 12, 1759-1778.	5.6	36
32	Biomechanical investigation of colorectal cancer cells. Applied Physics Letters, 2014, 105, 123701.	3.3	34
33	INSIDIA: A FIJI Macro Delivering Highâ€Throughput and Highâ€Content Spheroid Invasion Analysis. Biotechnology Journal, 2017, 12, 1700140.	3.5	32
34	Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. 2D Materials, 2018, 5, 015027.	4.4	32
35	Graphene Quantum Dotsâ€™ Surface Chemistry Modulates the Sensitivity of Glioblastoma Cells to Chemotherapeutics. International Journal of Molecular Sciences, 2020, 21, 6301.	4.1	32
36	Graphene-based scaffolds for tissue engineering and photothermal therapy. Nanomedicine, 2020, 15, 1411-1417.	3.3	32

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37	Different effects of matrix degrading enzymes towards biofilms formed by E. faecalis and E. faecium clinical isolates. Colloids and Surfaces B: Biointerfaces, 2017, 158, 349-355.	5.0	31
38	Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. Nanotechnology, 2013, 24, 495302.	2.6	30
39	Impact of Protein Domains on PE_PGRS30 Polar Localization in Mycobacteria. PLoS ONE, 2014, 9, e112482.	2.5	29
40	Graphene oxide prevents mycobacteria entry into macrophages through extracellular entrapment. Nanoscale Advances, 2019, 1, 1421-1431.	4.6	28
41	Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. Materials, 2020, 13, 4139.	2.9	28
42	3D Graphene Scaffolds for Skeletal Muscle Regeneration: Future Perspectives. Frontiers in Bioengineering and Biotechnology, 2020, 8, 383.	4.1	28
43	3D-printed graphene for bone reconstruction. 2D Materials, 2020, 7, 022004.	4.4	27
44	Principles for optimization and validation of mRNA lipid nanoparticle vaccines against COVID-19 using 3D bioprinting. Nano Today, 2022, 43, 101403.	11.9	26
45	In vitro effect of clarithromycin and alginate lyase against helicobacter pylori biofilm. Biotechnology Progress, 2016, 32, 1584-1591.	2.6	25
46	Exploitation of nanoparticle-protein interactions for early disease detection. Applied Physics Letters, 2019, 114, 163702.	3.3	25
47	Biocompatible N-acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger. Chemical Communications, 2019, 55, 4186-4189.	4.1	25
48	PE_PGRS3 ofMycobacterium tuberculosisis specifically expressed at low phosphate concentration, and its arginine-rich C-terminal domain mediates adhesion and persistence in host tissues when expressed inMycobacterium smegmatis. Cellular Microbiology, 2018, 20, e12952.	2.1	24
49	Microfluidic-generated lipid-graphene oxide nanoparticles for gene delivery. Applied Physics Letters, 2019, 114, 233701.	3.3	21
50	Graphene Oxide-Linezolid Combination as Potential New Anti-Tuberculosis Treatment. Nanomaterials, 2020, 10, 1431.	4.1	20
51	Synthesis and characterization of different immunogenic viral nanoconstructs from rotavirus VP6 inner capsid protein. International Journal of Nanomedicine, 2014, 9, 2727.	6.7	19
52	Nanoscale mechanics of brain abscess: An atomic force microscopy study. Micron, 2018, 113, 34-40.	2.2	19
53	Dynamic structural determinants underlie the neurotoxicity of the N-terminal tau 26-44 peptide in Alzheimer's disease and other human tauopathies. International Journal of Biological Macromolecules, 2019, 141, 278-289.	7.5	16
54	Carbon nanomaterials: a new way against tuberculosis. Expert Review of Medical Devices, 2019, 16, 863-875.	2.8	16

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55	Celecoxib Exerts Neuroprotective Effects in Î²-Amyloid-Treated SH-SY5Y Cells Through the Regulation of Heme Oxygenase-1: Novel Insights for an Old Drug. Frontiers in Cell and Developmental Biology, 2020, 8, 561179.	3.7	16
56	Expression of Pinopodes in the Endometrium from Recurrent Pregnancy Loss Women. Role of Thrombomodulin and Ezrin. Journal of Clinical Medicine, 2020, 9, 2634.	2.4	15
57	Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. Communications Physics, 2020, 3, .	5.3	14
58	3D-printed graphene polylactic acid devices resistant to SARS-CoV-2: Sunlight-mediated sterilization of additive manufactured objects. Carbon, 2022, 194, 34-41.	10.3	14
59	Efficient Spatial Sampling for AFM-Based Cancer Diagnostics: A Comparison between Neural Networks and Conventional Data Analysis. Condensed Matter, 2019, 4, 58.	1.8	13
60	Antimicrobial and Antibiofilm Properties of Graphene Oxide on Enterococcus faecalis. Antibiotics, 2020, 9, 692.	3.7	13
61	A comparative experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid andN-acetyl cysteine for biomedical applications. Materials Advances, 2020, 1, 2745-2754.	5.4	13
62	Î±-Dystroglycan hypoglycosylation affects cell migration by influencing Î²-dystroglycan membrane clustering and filopodia length: A multiscale confocal microscopy analysis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2182-2191.	3.8	12
63	Graphene Oxide Induced Osteogenesis Quantification by In-Situ 2D-Fluorescence Spectroscopy. International Journal of Molecular Sciences, 2018, 19, 3336.	4.1	12
64	Inhibiting the Growth of 3D Brain Cancer Models with Bio-Coronated Liposomal Temozolomide. Pharmaceutics, 2021, 13, 378.	4.5	12
65	Î±â€Crystallin Modulates its Chaperone Activity by Varying the Exposed Surface. ChemBioChem, 2013, 14, 2362-2370.	2.6	11
66	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. Nano-Micro Letters, 2015, 7, 146-151.	27.0	9
67	Expression profiling in a mammalian host reveals the strong induction of genes encoding LysM domain-containing proteins in Enterococcus faecium. Scientific Reports, 2018, 8, 12412.	3.3	9
68	Circulating miRNAs in Small Extracellular Vesicles Secreted by a Human Melanoma Xenograft in Mouse Brains. Cancers, 2020, 12, 1635.	3.7	9
69	INSIDIA 2.0 High-Throughput Analysis of 3D Cancer Models: Multiparametric Quantification of Graphene Quantum Dots Photothermal Therapy for Glioblastoma and Pancreatic Cancer. International Journal of Molecular Sciences, 2022, 23, 3217.	4.1	9
70	The biomechanics of the umbilical cord Wharton Jelly: Roles in hemodynamic proficiency and resistance to compression. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103377.	3.1	8
71	Graphene Oxide Nano-Concentrators Selectively Modulate RNA Trapping According to Metal Cations in Solution. Frontiers in Bioengineering and Biotechnology, 2020, 8, 421.	4.1	8
72	VP6-SUMO Self-Assembly as Nanocarriers for Gastrointestinal Delivery. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	7

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73	PE_PGRS3 ensures provision of the vital phospholipids cardiolipin and phosphatidylinositols by promoting the interaction between M. tuberculosis and host cells. Virulence, 2021, 12, 868-884.	4.4	6
74	Biosynthesis and physico-chemical characterization of high performing peptide hydrogels@graphene oxide composites. Colloids and Surfaces B: Biointerfaces, 2021, 207, 111989.	5.0	6
75	Opportunities Offered by Graphene Nanoparticles for MicroRNAs Delivery for Amyotrophic Lateral Sclerosis Treatment. Materials, 2022, 15, 126.	2.9	5
76	Nano-Mechanical Response of Red Blood Cells. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 11-16.	0.5	4
77	Functionalized Graphene Quantum Dots Modulate Malignancy of Glioblastoma Multiforme by Downregulating Neurospheres Formation. Journal of Carbon Research, 2021, 7, 4.	2.7	4
78	Antibacterial Properties of Curcumin Loaded Graphene Oxide Flakes. Biophysical Journal, 2018, 114, 362a.	0.5	3
79	Neural Network Approach for the Analysis of AFM Force-Distance Curves for Brain Cancer Diagnosis. Biophysical Journal, 2018, 114, 353a.	0.5	3
80	Nanofeatures of orthopedic implant surfaces. Nanomedicine, 2021, 16, 1733-1736.	3.3	3
81	In situ N-acetylcysteine release from polyvinyl alcohol film for moisture-activated food packaging. Food Packaging and Shelf Life, 2021, 29, 100694.	7.5	3
82	Estradiol protective role in atherogenesis through LDL structure modification. Journal Physics D: Applied Physics, 2016, 49, 285402.	2.8	2
83	Optical Neural Network by Disordered Tumor Spheroids. , 2019, , .		2
84	Plasma Protein Corona Reduces the Haemolytic Activity of the Graphene Oxide Nano and Micro Flakes. Biophysical Journal, 2016, 110, 167a.	0.5	1
85	Optical neural network for cancer morphodynamics sensing. , 2019, , .		1
86	Modulation of the Î±-Crystallin Chaperon Activity Induced by Changes in the Exposed Surface. Biophysical Journal, 2015, 108, 53a.	0.5	0
87	Quantitative Analysis of Autophagic Flux by Ratiometric pH-Imaging of Autophagic Intermediates. Biophysical Journal, 2016, 110, 596a.	0.5	0
88	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
89	Nanoscale Mapping of the Biomechanical Behavior in Healthy and Pathological Erythrocytes. Biophysical Journal, 2016, 110, 308a.	0.5	0
90	Towards a â€œGreenâ€•Antimicrobial Therapy: Study of Graphene Nanosheets Interaction with Human Pathogens. Biophysical Journal, 2016, 110, 530a.	0.5	0

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91	Nonlinear optics, optomechanics, and antibacterial coating by graphene oxide. , 2017, , .		0
92	Graphene-Oxide Gel as Biomimetic Antimicrobial Cloak. Biophysical Journal, 2017, 112, 589a.	0.5	0
93	Modulation of Graphene Oxide Probiotic and Antibiotic Activity by Critical Coagulation Concentration. Biophysical Journal, 2017, 112, 156a-157a.	0.5	0
94	Mechanic Adaptability of Metastatic Cells in Colon Cancer. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 1-9.	0.5	0
95	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. Neuro-Oncology, 2018, 20, i13-i13.	1.2	0
96	Graphene Oxide Laser Printing for Controlled STEM Cells Differentiation and Antibacterial Effects. Biophysical Journal, 2018, 114, 362a-363a.	0.5	0
97	P1016Ventricular arrhythmias in athletes and non-athletes: diagnostic role of electroanatomic mapping and CARTO-guided endomyocardial biopsy. European Heart Journal, 2018, 39, .	2.2	0
98	Optical supercavitation in graphene-oxide hydrogel for antimicrobial cloaks. , 2017, , .		0