Valentina Palmieri

List of Publications by Citations

81 papers	2,182 citations	28 h-index	44 g-index
101 ext. papers	2,804 ext. citations	5 avg, IF	5.5 L-index

#	Paper	IF	Citations
81	Effect of Alginate Lyase on Biofilm-GrownHelicobacter pyloriProbed by Atomic Force Microscopy. *International Journal of Polymer Science*, **2015**, 2015, 1-9	2.4	228
80	Can graphene take part in the fight against COVID-19?. *Nano Today*, **2020**, 33, 100883	17.9	137
79	Biomimetic antimicrobial cloak by graphene-oxide agar hydrogel. *Scientific Reports*, **2016**, 6, 12	4.9	111
78	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	5.5	85
77	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	78
76	The graphene oxide contradictory effects against human pathogens. *Nanotechnology*, **2017**, 28, 152001	3.4	68
75	Mapping viscoelastic properties of healthy and pathological red blood cells at the nanoscale level. *Nanoscale*, **2015**, 7, 17030-7	7.7	65
74	The future development of bacteria fighting medical devices: the role of graphene oxide. *Expert Review of Medical Devices*, **2016**, 13, 1013-1019	3.5	63
73	Clinically approved PEGylated nanoparticles are covered by a protein corona that boosts the uptake by cancer cells. *Nanoscale*, **2017**, 9, 10327-10334	7.7	62
72	Dynamic light scattering for the characterization and counting of extracellular vesicles: a powerful noninvasive tool. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	60
71	Graphene oxide touches blood: in vivo interactions of bio-coronated 2D materials. *Nanoscale Horizons*, **2019**, 4, 273-290	10.8	58
70	Mechanical and structural comparison between primary tumor and lymph node metastasis cells in colorectal cancer. *Soft Matter*, **2015**, 11, 5719-26	3.6	54
69	Curcumin-loaded graphene oxide flakes as an effective antibacterial system against methicillin-resistant. *Interface Focus*, **2018**, 8, 20170059	3.9	46
68	Plasma protein corona reduces the haemolytic activity of graphene oxide nano and micro flakes. *RSC Advances*, **2015**, 5, 81638-81641	3.7	44
67	Microfluidic manufacturing of surface-functionalized graphene oxide nanoflakes for gene delivery. *Nanoscale*, **2019**, 11, 2733-2741	7.7	43
66	Graphene oxide coatings prevent Candida albicans biofilm formation with a controlled release of curcumin-loaded nanocomposites. *Nanomedicine*, **2018**, 13, 2867-2879	5.6	42
65	Disease-specific protein corona sensor arrays may have disease detection capacity. *Nanoscale Horizons*, **2019**, 4, 1063-1076	10.8	41

64	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, 2192-202	4	40
63	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	36
62	Face masks and nanotechnology: Keep the blue side up. *Nano Today*, **2021**, 37, 101077	17.9	36
61	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	5.8	34
60	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. *Bioinspiration and Biomimetics*, **2016**, 11, 011001	2.6	34
59	Analysis of the "endocannabinoidome" in peripheral tissues of obese Zucker rats. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2013**, 89, 127-35	2.8	34
58	Controlled self assembly of collagen nanoparticle. *Journal of Nanoparticle Research*, **2011**, 13, 6141-6147	2.3	34
57	Human Biomolecular Corona of Liposomal Doxorubicin: The Overlooked Factor in Anticancer Drug Delivery. *ACS Applied Materials & Interfaces*, **2018**, 10, 22951-22962	9.5	33
56	Changes in cellular mechanical properties during onset or progression of colorectal cancer. *World Journal of Gastroenterology*, **2016**, 22, 7203-14	5.6	33
55	Biomechanical investigation of colorectal cancer cells. *Applied Physics Letters*, **2014**, 105, 123701	3.4	30
54	Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. *Nanoscale*, **2019**, 11, 15339-15346	7.7	29
53	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, 1675-86	8.7	28
52	A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. *Applied Physics Letters*, **2017**, 111, 143701	3.4	27
51	Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. *Nanotechnology*, **2013**, 24, 495302	3.4	25
50	Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. *2D Materials*, **2018**, 5, 015027	5.9	25
49	Impact of protein domains on PE_PGRS30 polar localization in Mycobacteria. *PLoS ONE*, **2014**, 9, e112482	3.7	22
48	Graphene nanoplatelet and graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2. *IScience*, **2021**, 24, 102788	6.1	22
47	Graphene oxide prevents mycobacteria entry into macrophages through extracellular entrapment. *Nanoscale Advances*, **2019**, 1, 1421-1431	5.1	17

46	Microfluidic-generated lipid-graphene oxide nanoparticles for gene delivery. *Applied Physics Letters* , **2019**, 114, 233701	3.4	16
45	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	6	16
44	INSIDIA: A FIJI Macro Delivering High-Throughput and High-Content Spheroid Invasion Analysis. *Biotechnology Journal*, **2017**, 12, 1700140	5.6	16
43	Synthesis and characterization of different immunogenic viral nanoconstructs from rotavirus VP6 inner capsid protein. *International Journal of Nanomedicine*, **2014**, 9, 2727-39	7.3	16
42	Exploitation of nanoparticle-protein interactions for early disease detection. *Applied Physics Letters* , **2019**, 114, 163702	3.4	15
41	Biocompatible N-acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger. *Chemical Communications*, **2019**, 55, 4186-4189	5.8	15
40	Graphene-based scaffolds for tissue engineering and photothermal therapy. *Nanomedicine*, **2020**, 15, 1411-1417	5.6	15
39	In vitro effect of clarithromycin and alginate lyase against helicobacter pylori biofilm. *Biotechnology Progress*, **2016**, 32, 1584-1591	2.8	15
38	3D Graphene Scaffolds for Skeletal Muscle Regeneration: Future Perspectives. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 383	5.8	12
37	3D-printed graphene for bone reconstruction. *2D Materials*, **2020**, 7, 022004	5.9	12
36	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	7.7	12
35	Graphene Oxide-Linezolid Combination as Potential New Anti-Tuberculosis Treatment. *Nanomaterials*, **2020**, 10,	5.4	12
34	PE_PGRS3 of Mycobacterium tuberculosis is specifically expressed at low phosphate concentration, and its arginine-rich C-terminal domain mediates adhesion and persistence in host tissues when expressed in Mycobacterium smegmatis. *Cellular Microbiology*, **2018**, 20, e12952	3.9	12
33	Carbon nanomaterials: a new way against tuberculosis. *Expert Review of Medical Devices*, **2019**, 16, 863-875	3.5	11
32	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	7.9	11
31	Graphene Quantum Dots-Surface Chemistry Modulates the Sensitivity of Glioblastoma Cells to Chemotherapeutics. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11
30	Nanoscale mechanics of brain abscess: An atomic force microscopy study. *Micron*, **2018**, 113, 34-40	2.3	11
29	Graphene Oxide Induced Osteogenesis Quantification by In-Situ 2D-Fluorescence Spectroscopy. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	10

28	Celecoxib Exerts Neuroprotective Effects in 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	5.7	9
27	crystallin modulates its chaperone activity by varying the exposed surface. *ChemBioChem*, **2013**, 14, 2362-70	3.8	9
26	Laser-Mediated antibacterial effects of Few- and Multi-Layer Ti3C2Tx MXenes. *Applied Surface Science*, **2021**, 567, 150795	6.7	9
25	Dystroglycan hypoglycosylation affects cell migration by influencing dystroglycan membrane clustering and filopodia length: A multiscale confocal microscopy analysis. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 2182-2191	6.9	8
24	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. *Nano-Micro Letters*, **2015**, 7, 146-151	19.5	7
23	Efficient Spatial Sampling for AFM-Based Cancer Diagnostics: A Comparison between Neural Networks and Conventional Data Analysis. *Condensed Matter*, **2019**, 4, 58	1.8	6
22	VP6-SUMO Self-Assembly as Nanocarriers for Gastrointestinal Delivery. *Journal of Nanomaterials*, **2015**, 2015, 1-7	3.2	6
21	Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. *Materials*, **2020**, 13,	3.5	6
20	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	4.9	5
19	Principles for optimization and validation of mRNA lipid nanoparticle vaccines against COVID-19 using 3D bioprinting.. *Nano Today*, **2022**, 43, 101403	17.9	5
18	Graphene nanoplatelet and Graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2		5
17	Circulating miRNAs in Small Extracellular Vesicles Secreted by a Human Melanoma Xenograft in Mouse Brains. *Cancers*, **2020**, 12,	6.6	4
16	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	4.1	4
15	Nano-Mechanical Response of Red Blood Cells. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 11-16	0.3	4
14	Antimicrobial and Antibiofilm Properties of Graphene Oxide on. *Antibiotics*, **2020**, 9,	4.9	4
13	Graphene Oxide Nano-Concentrators Selectively Modulate RNA Trapping According to Metal Cations in Solution. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 421	5.8	3
12	Antibacterial Properties of Curcumin Loaded Graphene Oxide Flakes. *Biophysical Journal*, **2018**, 114, 362a	2.9	3
11	Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. *Communications Physics*, **2020**, 3,	5.4	3

10	Expression of Pinopodes in the Endometrium from Recurrent Pregnancy Loss Women. Role of Thrombomodulin and Ezrin. *Journal of Clinical Medicine*, **2020**, 9,	5.1	3
9	A comparative experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid and N-acetyl cysteine for biomedical applications. *Materials Advances*, **2020**, 1, 2745-2754	3.3	2
8	Optical neural network for cancer morphodynamics sensing **2019**,		1
7	Estradiol protective role in atherogenesis through LDL structure modification. *Journal Physics D: Applied Physics*, **2016**, 49, 285402	3	1
6	Optical Neural Network by Disordered Tumor Spheroids **2019**,		1
5	PE_PGRS3 ensures provision of the vital phospholipids cardiolipin and phosphatidylinositols by promoting the interaction between and host cells. *Virulence*, **2021**, 12, 868-884	4.7	1
4	Biosynthesis and physico-chemical characterization of high performing peptide hydrogels@graphene oxide composites. *Colloids and Surfaces B: Biointerfaces*, **2021**, 207, 111989	6	1
3	Functionalized Graphene Quantum Dots Modulate Malignancy of Glioblastoma Multiforme by Downregulating Neurospheres Formation. *Journal of Carbon Research*, **2021**, 7, 4	3.3	0
2	In situ N-acetylcysteine release from polyvinyl alcohol film for moisture-activated food packaging. *Food Packaging and Shelf Life*, **2021**, 29, 100694	8.2	0
1	Mechanic Adaptability of Metastatic Cells in Colon Cancer. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 1-9	0.3	