

# Valentina Palmieri

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 81 | Principles for optimization and validation of mRNA lipid nanoparticle vaccines against COVID-19 using 3D bioprinting.. <i>Nano Today</i> , <b>2022</b> , 43, 101403  | 17.9 | 5         |
| 80 | Face masks and nanotechnology: Keep the blue side up. <i>Nano Today</i> , <b>2021</b> , 37, 101077   | 17.9 | 36        |
| 79 | PE_PGRS3 ensures provision of the vital phospholipids cardiolipin and phosphatidylinositols by promoting the interaction between and host cells. <i>Virulence</i> , <b>2021</b> , 12, 868-884  | 4.7  | 1         |
| 78 | Functionalized Graphene Quantum Dots Modulate Malignancy of Glioblastoma Multiforme by Downregulating Neurospheres Formation. <i>Journal of Carbon Research</i> , <b>2021</b> , 7, 4   | 3.3  | 0         |
| 77 | Graphene nanoplatelet and graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2. <i>IScience</i> , <b>2021</b> , 24, 102788   | 6.1  | 22        |
| 76 | In situ N-acetylcysteine release from polyvinyl alcohol film for moisture-activated food packaging. <i>Food Packaging and Shelf Life</i> , <b>2021</b> , 29, 100694  | 8.2  | 0         |
| 75 | Laser-Mediated antibacterial effects of Few- and Multi-Layer Ti3C2Tx MXenes. <i>Applied Surface Science</i> , <b>2021</b> , 567, 150795  | 6.7  | 9         |
| 74 | Biosynthesis and physico-chemical characterization of high performing peptide hydrogels@graphene oxide composites. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 207, 111989   | 6    | 1         |
| 73 | Celecoxib Exerts Neuroprotective Effects in $\beta$ 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> , <b>2020</b> , 8, 561179 | 5.7  | 9         |
| 72 | Can graphene take part in the fight against COVID-19?. <i>Nano Today</i> , <b>2020</b> , 33, 100883  | 17.9 | 137       |
| 71 | Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,   | 6.3  | 36        |
| 70 | 3D Graphene Scaffolds for Skeletal Muscle Regeneration: Future Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 383   | 5.8  | 12        |
| 69 | Graphene-based scaffolds for tissue engineering and photothermal therapy. <i>Nanomedicine</i> , <b>2020</b> , 15, 1411-1417  | 5.6  | 15        |
| 68 | Graphene Oxide Nano-Concentrators Selectively Modulate RNA Trapping According to Metal Cations in Solution. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 421  | 5.8  | 3         |
| 67 | Circulating miRNAs in Small Extracellular Vesicles Secreted by a Human Melanoma Xenograft in Mouse Brains. <i>Cancers</i> , <b>2020</b> , 12,  | 6.6  | 4         |
| 66 | 3D-printed graphene for bone reconstruction. <i>2D Materials</i> , <b>2020</b> , 7, 022004   | 5.9  | 12        |
| 65 | 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> , <b>2020</b> , 12, 1759-1778                 | 7.7  | 12        |

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|----|---|------|----|
| 64 | Antimicrobial and Antibiofilm Properties of Graphene Oxide on. <i>Antibiotics</i> , <b>2020</b> , 9,  | 4.9  | 4  |
| 63 | Graphene Oxide-Linezolid Combination as Potential New Anti-Tuberculosis Treatment. <i>Nanomaterials</i> , <b>2020</b> , 10,   | 5.4  | 12 |
| 62 | Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. <i>Materials</i> , <b>2020</b> , 13,  | 3.5  | 6  |
| 61 | Graphene Quantum Dots Surface Chemistry Modulates the Sensitivity of Glioblastoma Cells to Chemotherapeutics. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,  | 6.3  | 11 |
| 60 | 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> , <b>2020</b> , 1, 2745-2754             | 3.3  | 2  |
| 59 | Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. <i>Communications Physics</i> , <b>2020</b> , 3,   | 5.4  | 3  |
| 58 | Expression of Pinopodes in the Endometrium from Recurrent Pregnancy Loss Women. Role of Thrombomodulin and Ezrin. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,  | 5.1  | 3  |
| 57 | Carbon nanomaterials: a new way against tuberculosis. <i>Expert Review of Medical Devices</i> , <b>2019</b> , 16, 863-875   | 3.5  | 11 |
| 56 | Microfluidic manufacturing of surface-functionalized graphene oxide nanoflakes for gene delivery. <i>Nanoscale</i> , <b>2019</b> , 11, 2733-2741  | 7.7  | 43 |
| 55 | Graphene oxide touches blood: in vivo interactions of bio-coronated 2D materials. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 273-290  | 10.8 | 58 |
| 54 | Disease-specific protein corona sensor arrays may have disease detection capacity. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1063-1076   | 10.8 | 41 |
| 53 | Microfluidic-generated lipid-graphene oxide nanoparticles for gene delivery. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 233701   | 3.4  | 16 |
| 52 | Exploitation of nanoparticle-protein interactions for early disease detection. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 163702   | 3.4  | 15 |
| 51 | Biocompatible N-acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger. <i>Chemical Communications</i> , <b>2019</b> , 55, 4186-4189   | 5.8  | 15 |
| 50 | 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> , <b>2019</b> , 100, 103377                       | 4.1  | 4  |
| 49 | Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. <i>Nanoscale</i> , <b>2019</b> , 11, 15339-15346  | 7.7  | 29 |
| 48 | Efficient Spatial Sampling for AFM-Based Cancer Diagnostics: A Comparison between Neural Networks and Conventional Data Analysis. <i>Condensed Matter</i> , <b>2019</b> , 4, 58   | 1.8  | 6  |
| 47 | 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> , <b>2019</b> , 141, 278-289 | 7.9  | 11 |

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|----|--|-----|----|
| 46 | Optical neural network for cancer morphodynamics sensing <b>2019</b> ,   |     | 1  |
| 45 | Graphene oxide prevents mycobacteria entry into macrophages through extracellular entrapment. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1421-1431   | 5.1 | 17 |
| 44 | Optical Neural Network by Disordered Tumor Spheroids <b>2019</b> ,   |     | 1  |
| 43 | 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> , <b>2018</b> , 20, i13-i13   | 1   | 78 |
| 42 | Curcumin-loaded graphene oxide flakes as an effective antibacterial system against methicillin-resistant. <i>Interface Focus</i> , <b>2018</b> , 8, 20170059   | 3.9 | 46 |
| 41 | Antibacterial Properties of Curcumin Loaded Graphene Oxide Flakes. <i>Biophysical Journal</i> , <b>2018</b> , 114, 362a  | 2.9 | 3  |
| 40 | 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> , <b>2018</b> , 8, 12412  | 4.9 | 5  |
| 39 | Human Biomolecular Corona of Liposomal Doxorubicin: The Overlooked Factor in Anticancer Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22951-22962   | 9.5 | 33 |
| 38 | Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. <i>2D Materials</i> , <b>2018</b> , 5, 015027   | 5.9 | 25 |
| 37 | Graphene oxide coatings prevent <i>Candida albicans</i> biofilm formation with a controlled release of curcumin-loaded nanocomposites. <i>Nanomedicine</i> , <b>2018</b> , 13, 2867-2879   | 5.6 | 42 |
| 36 | Graphene Oxide Induced Osteogenesis Quantification by In-Situ 2D-Fluorescence Spectroscopy. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,   | 6.3 | 10 |
| 35 | 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> , <b>2018</b> , 20, e12952 | 3.9 | 12 |
| 34 | Nanoscale mechanics of brain abscess: An atomic force microscopy study. <i>Micron</i> , <b>2018</b> , 113, 34-40   | 2.3 | 11 |
| 33 | Bacteria Meet Graphene: Modulation of Graphene Oxide Nanosheet Interaction with Human Pathogens for Effective Antimicrobial Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 619-627  | 5.5 | 85 |
| 32 | Clinically approved PEGylated nanoparticles are covered by a protein corona that boosts the uptake by cancer cells. <i>Nanoscale</i> , <b>2017</b> , 9, 10327-10334  | 7.7 | 62 |
| 31 | Edystroglycan hypoglycosylation affects cell migration by influencing Edystroglycan membrane clustering and filopodia length: A multiscale confocal microscopy analysis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2017</b> , 1863, 2182-2191                                   | 6.9 | 8  |
| 30 | 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> , <b>2017</b> , 187, 1633-1647   | 5.8 | 34 |
| 29 | The graphene oxide contradictory effects against human pathogens. <i>Nanotechnology</i> , <b>2017</b> , 28, 152001   | 3.4 | 68 |

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|----|---|------|-----|
| 28 | A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 143701  | 3.4  | 27  |
| 27 | 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> , <b>2017</b> , 158, 349-355                       | 6    | 16  |
| 26 | INSIDIA: A FIJI Macro Delivering High-Throughput and High-Content Spheroid Invasion Analysis. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700140  | 5.6  | 16  |
| 25 | Nano-Mechanical Response of Red Blood Cells. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 11-16  | 0.3  | 4   |
| 24 | Mechanic Adaptability of Metastatic Cells in Colon Cancer. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 1-9  | 0.3  |     |
| 23 | In vitro effect of clarithromycin and alginate lyase against helicobacter pylori biofilm. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 1584-1591   | 2.8  | 15  |
| 22 | Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. <i>Bioinspiration and Biomimetics</i> , <b>2016</b> , 11, 011001  | 2.6  | 34  |
| 21 | Changes in cellular mechanical properties during onset or progression of colorectal cancer. <i>World Journal of Gastroenterology</i> , <b>2016</b> , 22, 7203-14  | 5.6  | 33  |
| 20 | Estradiol protective role in atherogenesis through LDL structure modification. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 285402   | 3    | 1   |
| 19 | Biomimetic antimicrobial cloak by graphene-oxide agar hydrogel. <i>Scientific Reports</i> , <b>2016</b> , 6, 12   | 4.9  | 111 |
| 18 | The future development of bacteria fighting medical devices: the role of graphene oxide. <i>Expert Review of Medical Devices</i> , <b>2016</b> , 13, 1013-1019  | 3.5  | 63  |
| 17 | Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 146-151  | 19.5 | 7   |
| 16 | Mechanical and structural comparison between primary tumor and lymph node metastasis cells in colorectal cancer. <i>Soft Matter</i> , <b>2015</b> , 11, 5719-26   | 3.6  | 54  |
| 15 | 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. <i>British Journal of Cancer</i> , <b>2015</b> , 112, 1675-86 | 8.7  | 28  |
| 14 | Plasma protein corona reduces the haemolytic activity of graphene oxide nano and micro flakes. <i>RSC Advances</i> , <b>2015</b> , 5, 81638-81641   | 3.7  | 44  |
| 13 | Mapping viscoelastic properties of healthy and pathological red blood cells at the nanoscale level. <i>Nanoscale</i> , <b>2015</b> , 7, 17030-7   | 7.7  | 65  |
| 12 | VP6-SUMO Self-Assembly as Nanocarriers for Gastrointestinal Delivery. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7   | 3.2  | 6   |
| 11 | Effect of Alginate Lyase on Biofilm-Grown <i>Helicobacter pylori</i> Probed by Atomic Force Microscopy. <i>International Journal of Polymer Science</i> , <b>2015</b> , 2015, 1-9   | 2.4  | 228 |

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|----|---|-----|----|
| 10 | Dynamic light scattering for the characterization and counting of extracellular vesicles: a powerful noninvasive tool. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1                | 2.3 | 60 |
| 9  | 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> , <b>2014</b> , 1840, 2192-202 | 4   | 40 |
| 8  | Impact of protein domains on PE_PGRS30 polar localization in Mycobacteria. <i>PLoS ONE</i> , <b>2014</b> , 9, e112483   | 3.7 | 22 |
| 7  | Synthesis and characterization of different immunogenic viral nanoconstructs from rotavirus VP6 inner capsid protein. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 2727-39       | 7.3 | 16 |
| 6  | Biomechanical investigation of colorectal cancer cells. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 123701  | 3.4 | 30 |
| 5  | Crystallin modulates its chaperone activity by varying the exposed surface. <i>ChemBioChem</i> , <b>2013</b> , 14, 2362-70  | 3.8 | 9  |
| 4  | Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. <i>Nanotechnology</i> , <b>2013</b> , 24, 495302   | 3.4 | 25 |
| 3  | Analysis of the "endocannabinoidome" in peripheral tissues of obese Zucker rats. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2013</b> , 89, 127-35                            | 2.8 | 34 |
| 2  | Controlled self assembly of collagen nanoparticle. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 6141-6147  | 2.3 | 34 |
| 1  | Graphene nanoplatelet and Graphene oxide functionalization of face mask materials inhibits infectivity of trapped SARS-CoV-2  |     | 5  |