Gabriele Ciasca

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4164824/publications.pdf

Version: 2024-02-01

97 papers	2,539 citations	172207 29 h-index	223531 46 g-index
98 all docs	98 docs citations	98 times ranked	3901 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.	1.2	288
2	Cross talk between cancer and immune cells: exploring complex dynamics in a microfluidic environment. Lab on A Chip, 2013, 13, 229-239.	3.1	126
3	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.	2.6	115
4	Mapping viscoelastic properties of healthy and pathological red blood cells at the nanoscale level. Nanoscale, 2015, 7, 17030-17037.	2.8	86
5	The graphene oxide contradictory effects against human pathogens. Nanotechnology, 2017, 28, 152001.	1.3	84
6	The future development of bacteria fighting medical devices: the role of graphene oxide. Expert Review of Medical Devices, 2016, 13, 1013-1019.	1.4	83
7	Unravelling the Potential of Graphene Quantum Dots in Biomedicine and Neuroscience. International Journal of Molecular Sciences, 2020, 21, 3712.	1.8	77
8	Nano-mechanical signature of brain tumours. Nanoscale, 2016, 8, 19629-19643.	2.8	75
9	Mechanical and structural comparison between primary tumor and lymph node metastasis cells in colorectal cancer. Soft Matter, 2015, 11, 5719-5726.	1.2	72
10	Curcumin-loaded graphene oxide flakes as an effective antibacterial system against methicillin-resistant Staphylococcus aureus. Interface Focus, 2018, 8, 20170059.	1.5	61
11	Changes in cellular mechanical properties during onset or progression of colorectal cancer. World Journal of Gastroenterology, 2016, 22, 7203.	1.4	55
12	Possible relationship between Al/ferritin complex and Alzheimer's disease. Clinical Biochemistry, 2013, 46, 89-93.	0.8	52
13	Extracellular truncated tau causes early presynaptic dysfunction associated with Alzheimerâ€™s disease and other tauopathies. Oncotarget, 2017, 8, 64745-64778.	0.8	49
14	Plasma protein corona reduces the haemolytic activity of graphene oxide nano and micro flakes. RSC Advances, 2015, 5, 81638-81641.	1.7	48
15	A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. Applied Physics Letters, 2017, 111, .	1.5	47
16	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	1.5	44
17	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
18	Structural phase transition and superlattice misfit strain of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:mtext>FeAsO</mml:mtext></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
19	An Optimized Table-Top Small-Angle X-ray Scattering Set-up for the Nanoscale Structural Analysis of Soft Matter. Scientific Reports, 2014, 4, 6985.	1.6	36
20	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.	2.8	36
21	Continuous Thermal Collapse of the Intrinsically Disordered Protein Tau Is Driven by Its Entropic Flexible Domain. Langmuir, 2012, 28, 13405-13410.	1.6	35
22	Low Density Lipoprotein Aged in Plasma Forms Clusters Resembling Subendothelial Droplets: Aggregation via Surface Sites. Biophysical Journal, 2006, 90, 4239-4247.	0.2	34
23	Biomechanical investigation of colorectal cancer cells. Applied Physics Letters, 2014, 105, 123701.	1.5	34
24	Thermal compaction of the intrinsically disordered protein tau: entropic, structural, and hydrophobic factors. Physical Chemistry Chemical Physics, 2017, 19, 8435-8446.	1.3	33
25	Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. 2D Materials, 2018, 5, 015027.	2.0	32
26	Graphene Quantum Dotsâ€™ Surface Chemistry Modulates the Sensitivity of Glioblastoma Cells to Chemotherapeutics. International Journal of Molecular Sciences, 2020, 21, 6301.	1.8	32
27	Transient state kinetic investigation of ferritin iron release. Applied Physics Letters, 2012, 100, 073703.	1.5	31
28	Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. Nanotechnology, 2013, 24, 495302.	1.3	30
29	Imaging collagen packing dynamics during mineralization of engineered bone tissue. Acta Biomaterialia, 2015, 23, 309-316.	4.1	30
30	Hierarchical Formation Mechanism of CoFe₂O₄ Mesoporous Assemblies. ACS Nano, 2015, 9, 7277-7286.	7.3	30
31	Enhanced Chemotherapy for Glioblastoma Multiforme Mediated by Functionalized Graphene Quantum Dots. Materials, 2020, 13, 4139.	1.3	28
32	An integrated superhydrophobic-plasmonic biosensor for mid-infrared protein detection at the femtomole level. Physical Chemistry Chemical Physics, 2015, 17, 21337-21342.	1.3	27
33	The Microstrain-Doping Phase Diagram of the Iron Pnictides: Heterostructures at Atomic Limit. Journal of Superconductivity and Novel Magnetism, 2009, 22, 589-593.	0.8	26
34	Temporary secondary structures in tau, an intrinsically disordered protein. Molecular Simulation, 2012, 38, 525-533.	0.9	25
35	Recent Advances in the Label-Free Characterization of Exosomes for Cancer Liquid Biopsy: From Scattering and Spectroscopy to Nanoindentation and Nanodevices. Nanomaterials, 2021, 11, 1476.	1.9	25
36	Phase separation of the plasma membrane in human red blood cells as a potential tool for diagnosis and progression monitoring of type 1 diabetes mellitus. PLoS ONE, 2017, 12, e0184109.	1.1	23

#	Article	IF	Citations
37	Serum immunoglobulin free light chain levels in systemic autoimmune rheumatic diseases. Clinical and Experimental Immunology, 2020, 199, 163-171.	1.1	22
38	Mid-infrared nanoantenna arrays on silicon and CaF2 substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	1.1	21
39	Fourier Transform Infrared Spectroscopy as a useful tool for the automated classification of cancer cell-derived exosomes obtained under different culture conditions. Analytica Chimica Acta, 2020, 1140, 219-227.	2.6	21
40	Agglomeration process in thin silicon-, strained silicon-, and silicon germanium-on-insulator substrates. Journal of Applied Physics, 2009, 105, .	1.1	20
41	Mechanism of aluminium bio-mineralization in the apoferritin cavity. Applied Physics Letters, 2013, 103, .	1.5	20
42	A novel method for post-mortem interval estimation based on tissue nano-mechanics. International Journal of Legal Medicine, 2019, 133, 1133-1139.	1.2	20
43	Graphene Oxide-Linezolid Combination as Potential New Anti-Tuberculosis Treatment. Nanomaterials, 2020, 10, 1431.	1.9	20
44	Reconstitution of aluminium and iron core in horse spleen apoferritin. Journal of Nanoparticle Research, 2011, 13, 6149-6155.	0.8	19
45	Nanoscale Correlated Disorder in Out-of-Equilibrium Myelin Ultrastructure. ACS Nano, 2018, 12, 729-739.	7.3	19
46	Nanoscale mechanics of brain abscess: An atomic force microscopy study. Micron, 2018, 113, 34-40.	1.1	19
47	Wet sample confinement by superhydrophobic patterned surfaces for combined X-ray fluorescence and X-ray phase contrast imaging. Microelectronic Engineering, 2013, 111, 304-309.	1.1	17
48	Recurrence quantification analysis of heart rate variability during continuous incremental exercise test in obese subjects. Chaos, 2020, 30, 033135.	1.0	17
49	Machine Learning-Assisted FTIR Analysis of Circulating Extracellular Vesicles for Cancer Liquid Biopsy. Journal of Personalized Medicine, 2022, 12, 949.	1.1	17
50	Nanomechanical mapping helps explain differences in outcomes of eye microsurgery: A comparative study of macular pathologies. PLoS ONE, 2019, 14, e0220571.	1.1	16
51	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.	3.6	16
52	Gamma irradiation of graphene quantum dots with ethylenediamine: Antioxidant for ion sensing. Ceramics International, 2020, 46, 23611-23622.	2.3	16
53	Controlling Photoinduced Electron Transfer Via Defects Self-Organization for Novel Functional Macromolecular Systems. Current Protein and Peptide Science, 2014, 15, 394-399.	0.7	15
54	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. Nano-Micro Letters, 2014, 6, 280-286.	14.4	14

#	Article	IF	Citations
55	Efficient Spatial Sampling for AFM-Based Cancer Diagnostics: A Comparison between Neural Networks and Conventional Data Analysis. Condensed Matter, 2019, 4, 58.	0.8	13
56	Salivary Biomarkers in COVID-19 Patients: Towards a Wide-Scale Test for Monitoring Disease Activity. Journal of Personalized Medicine, 2021, 11, 385.	1.1	12
57	Label-free spectroscopic characterization of exosomes reveals cancer cell differentiation. Analytica Chimica Acta, 2022, 1192, 339359.	2.6	12
58	Terahertz intersubband absorption and conduction band alignment in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type Si/SiGe multiple quantum wells. Physical Review B, 2009, 79, .	1.1	11
59	An evaluation of the objectivity and reproducibility of shear wave elastography in estimating the post-mortem interval: a tissue biomechanical perspective. International Journal of Legal Medicine, 2020, 134, 1939-1948.	1.2	11
60	Temperature and solvent dependence of the dynamical landscape of tau protein conformations. Journal of Biological Physics, 2012, 38, 169-179.	0.7	10
61	Effects of barriers on chemical and biological properties of two dual resin cements. European Journal of Oral Sciences, 2015, 123, 208-214.	0.7	10
62	Red blood cells membrane micropolarity as a novel diagnostic indicator of type 1 and type 2 diabetes. Analytica Chimica Acta: X, 2019, 3, 100030.	2.8	10
63	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. Nano-Micro Letters, 2015, 7, 146-151.	14.4	9
64	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.	1.8	9
65	A time-dependent study of nano-mechanical and ultrastructural properties of internal limiting membrane under ocriplasmin treatment. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103853.	1.5	8
66	Estimation of the time of death by measuring the variation of lateral cerebral ventricle volume and cerebrospinal fluid radiodensity using postmortem computed tomography. International Journal of Legal Medicine, 2021, 135, 2615-2623.	1.2	8
67	Transient tertiary structures in tau, an intrinsically disordered protein. Molecular Simulation, 2013, 39, 1084-1092.	0.9	7
68	VP6-SUMO Self-Assembly as Nanocarriers for Gastrointestinal Delivery. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	7
69	The diagnostic performance of PIVKA-II in metabolic and viral hepatocellular carcinoma: a pilot study. European Review for Medical and Pharmacological Sciences, 2020, 24, 12675-12685.	0.5	7
70	A Comparative Study of Serum Angiogenic Biomarkers in Cirrhosis and Hepatocellular Carcinoma. Cancers, 2022, 14, 11.	1.7	7
71	Erythrocyte viscoelastic recovery after liver transplantation in a cirrhotic patient affected by spur cell anaemia. Journal of Microscopy, 2020, 280, 287-296.	0.8	6
72	Attenuated total reflection-Fourier transform infrared spectroscopy (ATR-FTIR) detection as a rapid and convenient screening test for cystinuria. Clinica Chimica Acta, 2021, 518, 128-133.	0.5	6

#	Article	IF	Citations
73	Biosynthesis and physico-chemical characterization of high performing peptide hydrogels@graphene oxide composites. Colloids and Surfaces B: Biointerfaces, 2021, 207, 111989.	2.5	6
74	Fabrication of an electro-optical Bragg modulator based on plasma dispersion effect in silicon. Microelectronic Engineering, 2013, 105, 107-112.	1.1	5
75	Searching for the Mechanical Fingerprint of Pre-diabetes in T1DM: A Case Report Study. Frontiers in Bioengineering and Biotechnology, 2020, 8, 569978.	2.0	5
76	Myelin basic protein dynamics from out-of-equilibrium functional state to degraded state in myelin. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183256.	1.4	5
77	Ion and plasma based treatments for enhanced chemical speciation of metals in ferritin. Microelectronic Engineering, 2014, 124, 86-89.	1.1	4
78	Nano-Mechanical Response of Red Blood Cells. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 11-16.	0.3	4
79	Functionalized Graphene Quantum Dots Modulate Malignancy of Glioblastoma Multiforme by Downregulating Neurospheres Formation. Journal of Carbon Research, 2021, 7, 4.	1.4	4
80	Solving the mystery of HBV-related mixed cryoglobulinemia: potential biomarkers of disease progression. Rheumatology, 2021, 60, 4418-4427.	0.9	4
81	Functional Upper Airway Space Endoscopy: A Prognostic Indicator in Obstructive Sleep Apnea Treatment with Mandibular Advancement Devices. International Journal of Environmental Research and Public Health, 2021, 18, 2393.	1.2	4
82	Choroidal Thickness Changes After Intravitreal Aflibercept Injections in Treatment-NaÃ¯ve Neovascular AMD. Advances in Therapy, 2022, 39, 3248-3261.	1.3	4
83	Neural Network Approach for the Analysis of AFM Force-Distance Curves for Brain Cancer Diagnosis. Biophysical Journal, 2018, 114, 353a.	0.2	3
84	Short 2-[18F]Fluoro-2-Deoxy-D-Glucose PET Dynamic Acquisition Protocol to Evaluate the Influx Rate Constant by Regional Patlak Graphical Analysis in Patients With Non-Small-Cell Lung Cancer. Frontiers in Medicine, 2021, 8, 725387.	1.2	3
85	Post mortem computed tomography meets radiomics: a case series on fractal analysis of post mortem changes in the brain. International Journal of Legal Medicine, 2022, 136, 719-727.	1.2	3
86	Estradiol protective role in atherogenesis through LDL structure modification. Journal Physics D: Applied Physics, 2016, 49, 285402.	1.3	2
87	2DEG based on strained Si on SGOI substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1611-1613.	1.3	1
88	Plasma Protein Corona Reduces the Haemolytic Activity of the Graphene Oxide Nano and Micro Flakes. Biophysical Journal, 2016, 110, 167a.	0.2	1
89	On the Role of Specimen Thickness in Chemistry Quantification by HAADF. Springer Proceedings in Physics, 2008, , 173-176.	0.1	1
90	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. Nano-Micro Letters, 2014, 6, 280.	14.4	1

#	Article	IF	Citations
91	Modulation of the Î±-Crystallin Chaperon Activity Induced by Changes in the Exposed Surface. Biophysical Journal, 2015, 108, 53a.	0.2	0
92	Quantitative Analysis of Autophagic Flux by Ratiometric pH-Imaging of Autophagic Intermediates. Biophysical Journal, 2016, 110, 596a.	0.2	0
93	Role of AL, FE, CU in the Alterations of Mechanical Properties of Cortical Neurons Probed by Atomic Force Microscopy. Biophysical Journal, 2016, 110, 148a.	0.2	0
94	Nanoscale Mapping of the Biomechanical Behavior in Healthy and Pathological Erythrocytes. Biophysical Journal, 2016, 110, 308a.	0.2	0
95	Towards a â€œGreenâ€•Antimicrobial Therapy: Study of Graphene Nanosheets Interaction with Human Pathogens. Biophysical Journal, 2016, 110, 530a.	0.2	0
96	Mechanic Adaptability of Metastatic Cells in Colon Cancer. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 1-9.	0.3	0
97	Silicon single mode waveguide modulator based upon switchable Bragg reflector. , 2018, , .		0