

Roberta Galli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2697732/publications.pdf>

Version: 2024-02-01

64
papers

2,045
citations

186265

28
h-index

254184

43
g-index

67
all docs

67
docs citations

67
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging Arm Regeneration: Label-Free Multiphoton Microscopy to Dissect the Process in Octopus vulgaris. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 814746.	3.7	4
2	Arrested in Glass: Actin within Sophisticated Architectures of Biosilica in Sponges. <i>Advanced Science</i> , 2022, 9, e2105059.	11.2	15
3	Correlation of biomechanics and cancer cell phenotype by combined Brillouin and Raman spectroscopy of U87-MG glioblastoma cells. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	3.4	4
4	Optical coherence tomography and multiphoton microscopy offer new options for the quantification of fibrotic aortic valve disease in ApoE ^{-/-} mice. <i>Scientific Reports</i> , 2021, 11, 5834.	3.3	7
5	Sacubitril/Valsartan Improves Diastolic Function But Not Skeletal Muscle Function in a Rat Model of HFpEF. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3570.	4.1	19
6	Brillouin Spectroscopy as an Innovative Tool to Investigate Biomechanical Properties of Native Human Aortic Valve and Bioprostheses Tissue. <i>Structural Heart</i> , 2021, 5, 29.	0.6	3
7	Extreme Biomimetics: Designing of the First Nanostructured 3D Spongin-Atacamite Composite and its Application. <i>Advanced Materials</i> , 2021, 33, e2101682.	21.0	21
8	Brillouin confocal microscopy to determine biomechanical properties of SULEEI-treated bovine pericardium for application in cardiac surgery. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 79, 179-192.	1.7	2
9	Label-free multiphoton imaging allows brain tumor recognition based on texture analysis—a study of 382 tumor patients. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa035.	0.7	11
10	Exogenous ethanol induces a metabolic switch that prolongs the survival of <i>Caenorhabditis elegans</i> dauer larva and enhances its resistance to desiccation. <i>Aging Cell</i> , 2020, 19, e13214.	6.7	11
11	Label-free multiphoton microscopy as a tool to investigate alterations of cerebral aneurysms. <i>Scientific Reports</i> , 2020, 10, 12359.	3.3	9
12	Extreme biomineralization: the case of the hypermineralized ear bone of gray whale (<i>Eschrichtius</i>) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	2.3	12
13	A metabolic switch regulates the transition between growth and diapause in <i>C. elegans</i> . <i>BMC Biology</i> , 2020, 18, 31.	3.8	47
14	3D Chitin Scaffolds of Marine Demosponge Origin for Biomimetic Mollusk Hemolymph-Associated Biomineralization Ex-Vivo. <i>Marine Drugs</i> , 2020, 18, 123.	4.6	36
15	Electrochemical method for isolation of chitinous 3D scaffolds from cultivated <i>Aplysina aerophoba</i> marine demosponge and its biomimetic application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	19
16	Rapid Label-Free Analysis of Brain Tumor Biopsies by Near Infrared Raman and Fluorescence Spectroscopy—A Study of 209 Patients. <i>Frontiers in Oncology</i> , 2019, 9, 1165.	2.8	29
17	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from <i>Caribena versicolor</i> Spider Molt Cuticle. <i>Molecules</i> , 2019, 24, 3736.	3.8	35
18	Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. <i>Scientific Reports</i> , 2019, 9, 12641.	3.3	3

#	ARTICLE	IF	CITATIONS
19	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. <i>Science Advances</i> , 2019, 5, eaax2805.	10.3	53
20	Spider Chitin. The biomimetic potential and applications of <i>Caribena versicolor</i> tubular chitin. <i>Carbohydrate Polymers</i> , 2019, 226, 115301.	10.2	33
21	Identification of distinctive features in human intracranial tumors by label-free nonlinear multimodal microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800465.	2.3	10
22	Express Method for Isolation of Ready-to-Use 3D Chitin Scaffolds from <i>Aplysina archeri</i> (Aplysineidae): Tj ETQq0 0 0,rgBT /Overlock 10 T	4.8	65
23	New family and genus of a Dendrilla-like sponge with characters of Verongiida. Part II. Discovery of chitin in the skeleton of <i>Ernstilla lacunosa</i> . <i>Zoologischer Anzeiger</i> , 2019, 280, 21-29.	0.9	23
24	New Source of 3D Chitin Scaffolds: The Red Sea Demosponge <i>Pseudoceratina arabica</i> (Pseudoceratinidae, Verongiida). <i>Marine Drugs</i> , 2019, 17, 92.	4.6	36
25	Optical molecular imaging of corpora amylacea in human brain tissue. <i>Biomedizinische Technik</i> , 2018, 63, 579-585.	0.8	7
26	Nerve regeneration in the cephalopod mollusc <i>Octopus vulgaris</i> : label-free multiphoton microscopy as a tool for investigation. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170889.	3.4	13
27	Optical Analysis of Glioma: Fourier-Transform Infrared Spectroscopy Reveals the <i>IDH1</i> Mutation Status. <i>Clinical Cancer Research</i> , 2018, 24, 2530-2538.	7.0	27
28	Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelonectomy model. <i>Acta Neurochirurgica</i> , 2018, 160, 449-457.	1.7	29
29	Sexing of chicken eggs by fluorescence and Raman spectroscopy through the shell membrane. <i>PLoS ONE</i> , 2018, 13, e0192554.	2.5	47
30	Application of optical and spectroscopic technologies for the characterization of carious lesions <i>in vitro</i> . <i>Biomedizinische Technik</i> , 2018, 63, 595-602.	0.8	8
31	IDH1 mutation in human glioma induces chemical alterations that are amenable to optical Raman spectroscopy. <i>Journal of Neuro-Oncology</i> , 2018, 139, 261-268.	2.9	35
32	Discovery of chitin in skeletons of non-verongioid Red Sea demosponges. <i>PLoS ONE</i> , 2018, 13, e0195803.	2.5	31
33	Label-free multiphoton microscopy reveals relevant tissue changes induced by alginate hydrogel implantation in rat spinal cord injury. <i>Scientific Reports</i> , 2018, 8, 10841.	3.3	19
34	Subclinical Endocarditis Might be a Hidden Trigger of Early Prosthetic Valve Calcification: A Histological Study. <i>Heart Surgery Forum</i> , 2018, 21, E300-E304.	0.5	2
35	Label-free Imaging of Myocardial Remodeling in Atrial Fibrillation Using Nonlinear Optical Microscopy: A Feasibility Study.. <i>Journal of Atrial Fibrillation</i> , 2018, 10, 1644.	0.5	7
36	Assessing the efficacy of coherent anti-Stokes Raman scattering microscopy for the detection of infiltrating glioblastoma in fresh brain samples. <i>Journal of Biophotonics</i> , 2017, 10, 404-414.	2.3	28

#	ARTICLE	IF	CITATIONS
37	Chitin of poriferan origin and the bioelectrometallurgy of copper/copper oxide. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1626-1632.	7.5	47
38	Isolation and identification of chitin from heavy mineralized skeleton of <i>Suberea clavata</i> (Verongida). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> 2017, 104, 1706-1712.	7.5	44
39	Label-free multiphoton microscopy reveals altered tissue architecture in hippocampal sclerosis. <i>Epilepsia</i> , 2017, 58, e1-e5.	5.1	12
40	Sex-specific differences in age-dependent progression of aortic dysfunction and related cardiac remodeling in spontaneously hypertensive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R835-R849.	1.8	18
41	In ovo sexing of chicken eggs by fluorescence spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1185-1194.	3.7	47
42	On chemistry of β -chitin. <i>Carbohydrate Polymers</i> , 2017, 176, 177-186.	10.2	225
43	Contactless in ovo sex determination of chicken eggs. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 131-134.	0.4	11
44	Microstructure of urinary stones as studied by means of multimodal nonlinear optical imaging. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 22-29.	2.5	5
45	In Ovo Sexing of Domestic Chicken Eggs by Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 8657-8663.	6.5	41
46	Inflammation-related alterations of lipids after spinal cord injury revealed by Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 061008.	2.6	10
47	Biochemical Monitoring of Spinal Cord Injury by FT-IR Spectroscopy—Effects of Therapeutic Alginate Implant in Rat Models. <i>PLoS ONE</i> , 2015, 10, e0142660.	2.5	20
48	Endogenous Two-Photon Excited Fluorescence Provides Label-Free Visualization of the Inflammatory Response in the Rodent Spinal Cord. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	15
49	Raman-based imaging uncovers the effects of alginate hydrogel implants in spinal cord injury. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
50	Extreme biomimetic approach for developing novel chitin-GeO ₂ nanocomposites with photoluminescent properties. <i>Nano Research</i> , 2015, 8, 2288-2301.	10.4	71
51	Raman-based imaging uncovers the effects of alginate hydrogel implants in spinal cord injury. , 2015, , .		2
52	Intrinsic Indicator of Photodamage during Label-Free Multiphoton Microscopy of Cells and Tissues. <i>PLoS ONE</i> , 2014, 9, e110295.	2.5	69
53	Heart valve stenosis in laser spotlights: Insights into a complex disease. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 58, 65-75.	1.7	5
54	Non-linear optical microscopy of kidney tumours. <i>Journal of Biophotonics</i> , 2014, 7, 23-27.	2.3	29

#	ARTICLE	IF	CITATIONS
55	Synthesis of nanostructured chitin-hematite composites under extreme biomimetic conditions. RSC Advances, 2014, 4, 61743-61752.	3.6	53
56	Label-free identification of the glioma stem-like cell fraction using Fourier-transform infrared spectroscopy. International Journal of Radiation Biology, 2014, 90, 710-717.	1.8	18
57	Label-Free Delineation of Brain Tumors by Coherent Anti-Stokes Raman Scattering Microscopy in an Orthotopic Mouse Model and Human Glioblastoma. PLoS ONE, 2014, 9, e107115.	2.5	77
58	Identification and first insights into the structure and biosynthesis of chitin from the freshwater sponge <i>Spongilla lacustris</i> . Journal of Structural Biology, 2013, 183, 474-483.	2.8	88
59	Isolation and identification of chitin in three-dimensional skeleton of <i>Aplysina fistularis</i> marine sponge. International Journal of Biological Macromolecules, 2013, 62, 94-100.	7.5	91
60	Extreme Biomimetics: formation of zirconium dioxide nanophase using chitinous scaffolds under hydrothermal conditions. Journal of Materials Chemistry B, 2013, 1, 5092.	5.8	84
61	First report on chitinous holdfast in sponges (Porifera). Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130339.	2.6	40
62	Effects of tissue fixation on coherent anti-Stokes Raman scattering images of brain. Journal of Biomedical Optics, 2013, 19, 071402.	2.6	33
63	Vibrational Spectroscopic Imaging and Multiphoton Microscopy of Spinal Cord Injury. Analytical Chemistry, 2012, 84, 8707-8714.	6.5	47
64	Isolation and identification of chitin in the black coral <i>Parantipathes larix</i> (Anthozoa: Cnidaria). International Journal of Biological Macromolecules, 2012, 51, 129-137.	7.5	82