

Giovanni Birarda

List of Publications by Year in descending order

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53
papers

1,646
citations

331538

21
h-index

315616

38
g-index

55
all docs

55
docs citations

55
times ranked

2685
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Ionizing Radiation and Long-Term Storage on Hydrated vs. Dried Cell Samples of Extremophilic Microorganisms. <i>Microorganisms</i> , 2022, 10, 190.	1.6	5
2	Chemical analyses at micro and nano scale at SISSI-Bio beamline at Elettra-Sincrotrone Trieste., 2022, ,		8
3	Live-Cell Synchrotron-Based FTIR Evaluation of Metabolic Compounds in Brain Glioblastoma Cell Lines after Riluzole Treatment. <i>Analytical Chemistry</i> , 2022, 94, 1932-1940.	3.2	10
4	Oleic Acid Protects Endothelial Cells from Silica-Coated Superparamagnetic Iron Oxide Nanoparticles (SPIONs)-Induced Oxidative Stress and Cell Death. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6972.	1.8	6
5	Biodeterioration Assessment of a Unique Old Pharaonic Kingdom Wooden Statue Using Advanced Diagnostic Techniques. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7020.	1.3	0
6	Binding of tyrosine kinase inhibitor to epidermal growth factor receptor: surface-enhanced infrared absorption microscopy reveals subtle protein secondary structure variations. <i>Nanoscale</i> , 2021, 13, 7667-7677.	2.8	7
7	Infrared Nanospectroscopy Reveals DNA Structural Modifications upon Immobilization onto Clay Nanotubes. <i>Nanomaterials</i> , 2021, 11, 1103.	1.9	14
8	Plastics, (bio)polymers and their apparent biogeochemical cycle: An infrared spectroscopy study on foraminifera. <i>Environmental Pollution</i> , 2021, 279, 116912.	3.7	16
9	Chemical constitution of polyfurfuryl alcohol investigated by FTIR and Resonant Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120090.	2.0	18
10	Oxidation of ultralene and paraffin due to radiation damage after exposure to soft X-rays probed by FTIR microspectroscopy and X-ray fluorescence. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 231-239.	1.0	3
11	Addressable Graphene Encapsulation of Wet Specimens on a Chip for Optical, Electron, Infrared, and X-ray based Spectromicroscopy Studies. <i>Lab on A Chip</i> , 2021, 21, 4618-4628.	3.1	5
12	Study of the Spatio-Chemical Heterogeneity of Tannin-Furanic Foams: From 1D FTIR Spectroscopy to 3D FTIR Micro-Computed Tomography. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12869.	1.8	7
13	FTIR investigation of the secondary structure of type I collagen: New insight into the amide III band. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 118006.	2.0	128
14	Model-based correction algorithm for Fourier Transform infrared microscopy measurements of complex tissue-substrate systems. <i>Analytica Chimica Acta</i> , 2020, 1103, 143-155.	2.6	9
15	Cigarette butts, a threat for marine environments: Lessons from benthic foraminifera (Protista). <i>Marine Environmental Research</i> , 2020, 162, 105150.	1.1	24
16	Mineralogy and Zn Chemical Speciation in a Soil-Plant System from a Metal-Extreme Environment: A Study on <i>Helichrysum microphyllum</i> subsp. <i>tyrrhenicum</i> (Campo Pisano Mine, SW Sardinia, Italy). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 259.	0.8	17
17	Lipid analysis of CO ₂ -rich subsurface aquifers suggests an autotrophy-based deep biosphere with lysolipids enriched in CPR bacteria. <i>ISME Journal</i> , 2020, 14, 1547-1560.	4.4	29
18	Plastics everywhere: first evidence of polystyrene fragments inside the common Antarctic collembolan <i>Cryptopygus antarcticus</i> . <i>Biology Letters</i> , 2020, 16, 20200093.	1.0	61

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19	Soft X-ray induced radiation damage in thin freeze-dried brain samples studied by FTIR microscopy. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1218-1226.	1.0	10
20	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. <i>Heritage</i> , 2019, 2, 1852-1873.	0.9	10
21	Multi-technique microscopy investigation on bacterial biofilm matrices: a study on <i>Klebsiella pneumoniae</i> clinical strains. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7315-7325.	1.9	18
22	The <i>in vivo</i> effects of silver nanoparticles on terrestrial isopods, <i>Porcellio scaber</i> , depend on a dynamic interplay between shape, size and nanoparticle dissolution properties. <i>Analyst</i> , 2019, 144, 488-497.	1.7	13
23	Understanding the Polymerization of Polyfurfuryl Alcohol: Ring Opening and Diels-Alder Reactions. <i>Polymers</i> , 2019, 11, 2126.	2.0	39
24	The earliest evidence for mechanically delivered projectile weapons in Europe. <i>Nature Ecology and Evolution</i> , 2019, 3, 1409-1414.	3.4	58
25	Impact of Zn excess on biomineralization processes in <i>Juncus acutus</i> grown in mine polluted sites. <i>Journal of Hazardous Materials</i> , 2019, 370, 98-107.	6.5	35
26	The quality is in the eye of the beholder: The perspective of FTIR and UV resonant Raman spectroscopies on extracted nucleic acids. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1056-1065.	1.2	7
27	Effects of soft X-ray radiation damage on paraffin-embedded rat tissues supported on ultralene: a chemical perspective. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 848-856.	1.0	11
28	Antiproliferative activity of the combination of doxorubicin/quercetin on MCF7 breast cancer cell line: A combined study using colorimetric assay and synchrotron infrared microspectroscopy. <i>Infrared Physics and Technology</i> , 2018, 95, 141-147.	1.3	10
29	Graphene liquid cells for multi-technique analysis of biological cells in water environment. <i>Journal of Instrumentation</i> , 2018, 13, C05016-C05016.	0.5	22
30	Infrared Orange: Connecting Hyperspectral Data with Machine Learning. <i>Synchrotron Radiation News</i> , 2017, 30, 40-45.	0.2	99
31	Protein Mixture Segregation at Coffee-Ring: Real-Time Imaging of Protein Ring Precipitation by FTIR Spectromicroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7359-7365.	1.2	8
32	Infrared Spectral Imaging with Synchrotron Radiation. <i>Synchrotron Radiation News</i> , 2017, 30, 3-4.	0.2	0
33	Human age and skin physiology shape diversity and abundance of Archaea on skin. <i>Scientific Reports</i> , 2017, 7, 4039.	1.6	78
34	Microfluidic approaches to synchrotron radiation-based Fourier transform infrared (SR-FTIR) spectral microscopy of living biosystems. <i>Protein and Peptide Letters</i> , 2016, 23, 273-282.	0.4	35
35	IR-Live: fabrication of a low-cost plastic microfluidic device for infrared spectromicroscopy of living cells. <i>Lab on A Chip</i> , 2016, 16, 1644-1651.	3.1	25
36	Bimodal effect of hydrogen peroxide and oxidative events in nitrite-induced rapid root abscission by the water fern <i>Azolla pinnata</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 518.	1.7	3

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37	Diverse uncultivated ultra-small bacterial cells in groundwater. <i>Nature Communications</i> , 2015, 6, 6372.	5.8	342
38	Differential protein folding and chemical changes in lung tissues exposed to asbestos or particulates. <i>Scientific Reports</i> , 2015, 5, 12129.	1.6	22
39	Fourier transform infrared microspectroscopy reveals biochemical changes associated with glioma stem cell differentiation. <i>Biophysical Chemistry</i> , 2015, 207, 90-96.	1.5	10
40	Coupling Genetic and Chemical Microbiome Profiling Reveals Heterogeneity of Archaeome and Bacteriome in Subsurface Biofilms That Are Dominated by the Same Archaeal Species. <i>PLoS ONE</i> , 2014, 9, e99801.	1.1	28
41	SU-8 bonding protocol for the fabrication of microfluidic devices dedicated to FTIR microspectroscopy of live cells. <i>Lab on A Chip</i> , 2014, 14, 210-218.	3.1	48
42	Apoptotic pathways of U937 leukemic monocytes investigated by infrared microspectroscopy and flow cytometry. <i>Analyst, The</i> , 2014, 139, 3097-3106.	1.7	29
43	Effect of Ingested Tungsten Oxide (WO ₃) Nanofibers on Digestive Gland Tissue of <i>Porcellio scaber</i> (Isopoda, Crustacea): Fourier Transform Infrared (FTIR) Imaging. <i>Environmental Science & Technology</i> , 2013, 47, 11284-11292.	4.6	7
44	Tackling the minority: sulfate-reducing bacteria in an archaea-dominated subsurface biofilm. <i>ISME Journal</i> , 2013, 7, 635-651.	4.4	57
45	Synchrotron infrared imaging of advanced glycation endproducts (AGEs) in cardiac tissue from mice fed high glycemic diets. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 301-315.	1.2	18
46	Optimization of microfluidic systems for IRMS long term measurement of living cells. <i>Microelectronic Engineering</i> , 2012, 98, 698-702.	1.1	23
47	Evaluation of a novolak based positive tone photoresist as Nanolprint Lithography resist. <i>Microelectronic Engineering</i> , 2011, 88, 2096-2099.	1.1	7
48	Fabrication of a microfluidic platform for investigating dynamic biochemical processes in living samples by FTIR microspectroscopy. <i>Microelectronic Engineering</i> , 2010, 87, 806-809.	1.1	41
49	Infrared microspectroscopy of biochemical response of living cells in microfabricated devices. <i>Vibrational Spectroscopy</i> , 2010, 53, 6-11.	1.2	54
50	Tracking InfraRed signatures of drugs in cancer cells by Fourier Transform microspectroscopy. <i>Analyst, The</i> , 2010, 135, 3077.	1.7	43
51	Cadmium ^{II} halide and mixed cadmium ^{II} halide ^{II} dicyanamide polymers mediated by ancillary 2-aminoalkyl-pyridine ligands: Synthesis, X-ray single crystal structures and luminescence property. <i>Polyhedron</i> , 2008, 27, 2452-2458.	1.0	23
52	Half-sandwich Ru(II)-[9]aneS ₃ complexes with dicarboxylate ligands: synthesis, characterization and chemical behavior. <i>Dalton Transactions</i> , 2007, , 4048.	1.6	25
53	A Multi-Dimensional Approach to Investigate Use-Related Biogenic Residues on Palaeolithic Ground Stone Tools. <i>Environmental Archaeology</i> , 0, , 1-29.	0.6	14