

Lisa Vaccari

List of Publications by Year in descending order

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105
papers

3,008
citations

168829

31
h-index

214428

50
g-index

106
all docs

106
docs citations

106
times ranked

4884
citing authors

#	ARTICLE	IF	CITATIONS
1	A vibrational in vitro approach to evaluate the potential of monoolein nanoparticles as isofuranodiene carrier in MDA-MB 231 breast cancer cell line: New insights from Infrared and Raman microspectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 269, 120735.	2.0	6
2	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
3	Chemical analyses at micro and nano scale at SISSI-Bio beamline at Elettra-Sincrotrone Trieste. , 2022, ,		8
4	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
5	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
6	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
7	Reflection FTIR spectroscopy for the study of historical bowed string instruments: Invasive and non-invasive approaches. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 245, 118926.	2.0	14
8	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
9	A multidisciplinary study unveils the nature of a Roman ink of the I century AD. <i>Scientific Reports</i> , 2021, 11, 7231.	1.6	7
10	Infrared Nanospectroscopy Reveals DNA Structural Modifications upon Immobilization onto Clay Nanotubes. <i>Nanomaterials</i> , 2021, 11, 1103.	1.9	14
11	Plastics, (bio)polymers and their apparent biogeochemical cycle: An infrared spectroscopy study on foraminifera. <i>Environmental Pollution</i> , 2021, 279, 116912.	3.7	16
12	Cytotoxic Effects of 5-Azacytidine on Primary Tumour Cells and Cancer Stem Cells from Oral Squamous Cell Carcinoma: An In Vitro FTIRM Analysis. <i>Cells</i> , 2021, 10, 2127.	1.8	18
13	Cubic and Hexagonal Mesophases for Protein Encapsulation: Structural Effects of Insulin Confinement. <i>Langmuir</i> , 2021, 37, 10166-10176.	1.6	7
14	UV Resonance Raman explores protein structural modification upon fibrillation and ligand interaction. <i>Biophysical Journal</i> , 2021, 120, 4575-4589.	0.2	5
15	Spectroscopic Screening of Pancreatic Cancer. <i>Clinical Spectroscopy</i> , 2021, 3, 100016.	0.6	7
16	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
17	Hyperspectral characterization of the MSTO-211H cell spheroid model: A FPA-FTIR imaging approach. <i>Clinical Spectroscopy</i> , 2021, 3, 100011.	0.6	10
18	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

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19	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
20	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
21	Tannin-furanic foams used as biomaterial substrates for SERS sensing in possible wastewater filter applications. <i>Materials Research Express</i> , 2021, 8, 115404.	0.8	4
22	Investigation of human pancreatic cancer tissues by Fourier Transform Infrared Hyperspectral Imaging. <i>Journal of Biophotonics</i> , 2020, 13, e201960071.	1.1	39
23	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
24	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
25	The Impact of Controlled Ovarian Stimulation Hormones on the Metabolic State and Endocannabinoid System of Human Cumulus Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7124.	1.8	13
26	Cigarette butts, a threat for marine environments: Lessons from benthic foraminifera (Protista). <i>Marine Environmental Research</i> , 2020, 162, 105150.	1.1	24
27	Exploiting fourier transform infrared and Raman microspectroscopies on cancer stem cells from oral squamous cells carcinoma: new evidence of acquired cisplatin chemoresistance. <i>Analyst</i> , The, 2020, 145, 8038-8049.	1.7	22
28	Multi-technique analysis of extracellular vesicles: not only size matters. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2020, 32, 157-177.	0.3	5
29	FTIR Spectroscopy to Reveal Lipid and Protein Changes Induced on Sperm by Capacitation: Bases for an Improvement of Sample Selection in ART. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8659.	1.8	11
30	Investigation of genomic DNA methylation by ultraviolet resonant Raman spectroscopy. <i>Journal of Biophotonics</i> , 2020, 13, e202000150.	1.1	10
31	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</i> (Basel, Switzerland), 2020, 10, 259.	0.8	17
32	Synthesis and Characterization of High-Performing Sulfur-Free Tannin Foams. <i>Polymers</i> , 2020, 12, 564.	2.0	21
33	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
34	Iron-mediated interaction of alpha synuclein with lipid raft model membranes. <i>Nanoscale</i> , 2020, 12, 7631-7640.	2.8	16
35	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
36	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. <i>Heritage</i> , 2019, 2, 1852-1873.	0.9	10

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37	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
38	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
39	Quantitative macromolecular patterns in phytoplankton communities resolved at the taxonomical level by single-cell Synchrotron FTIR-spectroscopy. <i>BMC Plant Biology</i> , 2019, 19, 142.	1.6	17
40	Understanding the Polymerization of Polyfurfuryl Alcohol: Ring Opening and Diels-Alder Reactions. <i>Polymers</i> , 2019, 11, 2126.	2.0	39
41	The earliest evidence for mechanically delivered projectile weapons in Europe. <i>Nature Ecology and Evolution</i> , 2019, 3, 1409-1414.	3.4	58
42	Vibrational characterization of granulosa cells from patients affected by unilateral ovarian endometriosis: New insights from infrared and Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 206-214.	2.0	32
43	Enhanced Activity of Enzymes Encapsulated in Hydrophilic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 2348-2355.	6.6	351
44	Micro-ATR FTIR, SEM-EDS, and X-ray Micro-CT: An Innovative Multitechnique Approach to Investigate Bone Affected by Peri-implantitis. <i>International Journal of Oral and Maxillofacial Implants</i> , 2019, 34, 631-641.	0.6	3
45	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
46	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
47	A combined SR-based Raman and InfraRed investigation of pigmented matter used in wall paintings: The San Gennaro and San Gaudioso Catacombs (Naples, Italy) case. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	11
48	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
49	<i>In vitro</i> FTIR microspectroscopy analysis of primary oral squamous carcinoma cells treated with cisplatin and 5-fluorouracil: a new spectroscopic approach for studying the drug-cell interaction. <i>Analyst</i> , 2018, 143, 3317-3326.	1.7	32
50	Does the molecular and metabolic profile of human granulosa cells correlate with oocyte fate? New insights by Fourier transform infrared microspectroscopy analysis. <i>Molecular Human Reproduction</i> , 2018, 24, 521-532.	1.3	15
51	New insights on the macromolecular building of rainbow trout (<i>O. mykiss</i>) intestine: FTIR Imaging and histological correlative study. <i>Aquaculture</i> , 2018, 497, 1-9.	1.7	31
52	A new light on Alkaptonuria: A Fourier-transform infrared microscopy (FTIRM) and low energy X-ray fluorescence (LEXRF) microscopy correlative study on a rare disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1000-1008.	1.1	17
53	Lyotropic Liquid-Crystalline Nanosystems as Drug Delivery Agents for 5-Fluorouracil: Structure and Cytotoxicity. <i>Langmuir</i> , 2017, 33, 12369-12378.	1.6	56
54	Infrared Spectral Imaging with Synchrotron Radiation. <i>Synchrotron Radiation News</i> , 2017, 30, 3-4.	0.2	0

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55	Glucose is a key driver for GLUT1-mediated nanoparticles internalization in breast cancer cells. <i>Scientific Reports</i> , 2016, 6, 21629.	1.6	58
56	Contribution of Ribonucleic Acid (RNA) to the Fourier Transform Infrared (FTIR) Spectrum of Eukaryotic Cells. <i>Analytical Chemistry</i> , 2016, 88, 12090-12098.	3.2	51
57	Pitfalls and promises in FTIR spectromicroscopy analyses to monitor iron-mediated DNA damage in sperm. <i>Reproductive Toxicology</i> , 2016, 61, 39-46.	1.3	20
58	Micro FTIR imaging for the investigation of deteriorated organic binders in wall painting stratigraphies of different techniques and periods. <i>Microchemical Journal</i> , 2016, 124, 559-567.	2.3	43
59	FTIR microscopy reveals distinct biomolecular profile of crustacean digestive glands upon subtoxic exposure to ZnO nanoparticles. <i>Nanotoxicology</i> , 2016, 10, 462-470.	1.6	10
60	Vibrational mapping of sinonasal lesions by Fourier transform infrared imaging spectroscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 125003.	1.4	26
61	Differential protein folding and chemical changes in lung tissues exposed to asbestos or particulates. <i>Scientific Reports</i> , 2015, 5, 12129.	1.6	22
62	Time-Resolved FT-IR Microspectroscopy of Protein Aggregation Induced by Heat-Shock in Live Cells. <i>Analytical Chemistry</i> , 2015, 87, 3670-3677.	3.2	24
63	Surface Charge and Coating of CoFe ₂ O ₄ Nanoparticles: Evidence of Preserved Magnetic and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25529-25541.	1.5	81
64	Fourier transform infrared microspectroscopy reveals biochemical changes associated with glioma stem cell differentiation. <i>Biophysical Chemistry</i> , 2015, 207, 90-96.	1.5	10
65	Improving FTIR imaging speciation of organic compound residues or their degradation products in wall painting samples, by introducing a new thin section preparation strategy based on cyclododecane pre-treatment. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5393-5403.	1.9	20
66	Instrumentation at Synchrotron Radiation Beamlines. , 2015, , 65-104.		4
67	Infrared Synchrotron Radiation: From the Production to the Scientific Applications. , 2015, , 437-460.		1
68	Further insights into the assessment of cell cycle phases by FTIR microspectroscopy. <i>Vibrational Spectroscopy</i> , 2014, 75, 127-135.	1.2	5
69	Investigation of photodegradation in polymer solar cells blended with different fullerenes derivatives. <i>Solar Energy Materials and Solar Cells</i> , 2014, 123, 150-158.	3.0	21
70	A new approach to evaluate aging effects on human oocytes: Fourier transform infrared imaging spectroscopy study. <i>Fertility and Sterility</i> , 2014, 101, 120-127.	0.5	22
71	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
72	Apoptotic pathways of U937 leukemic monocytes investigated by infrared microspectroscopy and flow cytometry. <i>Analyst</i> , The, 2014, 139, 3097-3106.	1.7	29

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73	Effect of Ingested Tungsten Oxide (WO ₃) Nanofibers on Digestive Gland Tissue of Porcellio scaber (Isopoda, Crustacea): Fourier Transform Infrared (FTIR) Imaging. Environmental Science & Technology, 2013, 47, 11284-11292.	4.6	7
74	Determination of cell cycle phases in live B16 melanoma cells using IRMS. Analyst, The, 2013, 138, 4015.	1.7	21
75	The role of melatonin on zebrafish follicle development: An FT-IR imaging approach. Vibrational Spectroscopy, 2012, 62, 279-285.	1.2	14
76	Probiotics Can Induce Follicle Maturational Competence: The Danio rerio Case 1. Biology of Reproduction, 2012, 86, 65.	1.2	71
77	Top-down patterning of Zeolitic Imidazolate Framework composite thin films by deep X-ray lithography. Chemical Communications, 2012, 48, 7483.	2.2	51
78	Infrared Microspectroscopy: A Multiple-Screening Platform for Investigating Single-Cell Biochemical Perturbations upon Prion Infection. ACS Chemical Neuroscience, 2011, 2, 160-174.	1.7	16
79	Synchrotron FTIR analysis of drug treated ovarian A2780 cells: an ability to differentiate cell response to different drugs?. Analyst, The, 2011, 136, 498-507.	1.7	57
80	Effects on antigen-presenting cells of short-term interaction with the human host defence peptide Î²-defensin 2. Biochemical Journal, 2011, 436, 537-546.	1.7	14
81	X-ray fluorescence elemental mapping and microscopy to follow hepatic disposition of a Gd-based magnetic resonance imaging contrast agent. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 834-845.	0.9	12
82	Effects of Lactobacillus rhamnosus on zebrafish oocyte maturation: an FTIR imaging and biochemical analysis. Analytical and Bioanalytical Chemistry, 2010, 398, 3063-3072.	1.9	60
83	Fabrication of a microfluidic platform for investigating dynamic biochemical processes in living samples by FTIR microspectroscopy. Microelectronic Engineering, 2010, 87, 806-809.	1.1	41
84	Infrared microspectroscopy of biochemical response of living cells in microfabricated devices. Vibrational Spectroscopy, 2010, 53, 6-11.	1.2	54
85	Tracking InfraRed signatures of drugs in cancer cells by Fourier Transform microspectroscopy. Analyst, The, 2010, 135, 3077.	1.7	43
86	Coexisting silicate melt inclusions and H ₂ O-bearing, CO ₂ -rich fluid inclusions in mantle peridotite xenoliths from the Carpathian-Pannonian region (central Hungary). Chemical Geology, 2010, 274, 1-18.	1.4	40
87	Synbeads Porous-Rigid Methacrylic Support: Application to Solid Phase Peptide Synthesis and Characterization of the Polymeric Matrix by FTIR Microspectroscopy and High Resolution Magic Angle Spinning NMR. ACS Combinatorial Science, 2009, 11, 835-845.	3.3	11
88	Fabrication of Advanced Functional Devices Combining Soft Chemistry with X-ray Lithography in One Step. Advanced Materials, 2009, 21, 4932-4936.	11.1	63
89	Diffusion-Ordered NMR Spectroscopy in the Structural Characterization of Functionalized Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 9086-9093.	6.6	37
90	Primate cathelicidin orthologues display different structures and membrane interactions. Biochemical Journal, 2009, 417, 727-735.	1.7	40

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91	Artificial β -defensin based on a minimal defensin template. <i>Biochemical Journal</i> , 2009, 421, 435-447.	1.7	24
92	Structuring and interactions of human β -defensins 2 and 3 with model membranes. <i>Journal of Peptide Science</i> , 2008, 14, 518-523.	0.8	39
93	Covalent Assembly and Micropatterning of Functionalized Multiwalled Carbon Nanotubes to Monolayer-Modified Si(111) Surfaces. <i>Langmuir</i> , 2008, 24, 6595-6602.	1.6	54
94	Nanoporous Surfaces as Harvesting Agents for Mass Spectrometric Analysis of Peptides in Human Plasma. <i>Journal of Proteome Research</i> , 2006, 5, 1261-1266.	1.8	71
95	Porous silicon as drug carrier for controlled delivery of doxorubicin anticancer agent. <i>Microelectronic Engineering</i> , 2006, 83, 1598-1601.	1.1	116
96	Twin cantilevers with a nanogap for single molecule experimentation. <i>Microelectronic Engineering</i> , 2006, 83, 1309-1311.	1.1	15
97	Fabrication of three-dimensional stamps for embossing techniques by lithographically controlled isotropic wet etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2920.	1.6	11
98	Combining Single Wall Carbon Nanotubes and Photoactive Polymers for Photoconversion. <i>Journal of the American Chemical Society</i> , 2005, 127, 10051-10057.	6.6	130
99	Cleavage of the iron-methionine bond in c-type cytochromes: Crystal structure of oxidized and reduced cytochrome c ₂ from <i>Rhodospseudomonas palustris</i> and its ammonia complex. <i>Protein Science</i> , 2002, 11, 6-17.	3.1	0
100	Cleavage of the iron-methionine bond in c-type cytochromes: Crystal structure of oxidized and reduced cytochrome c ₂ from <i>Rhodospseudomonas palustris</i> and its ammonia complex. <i>Protein Science</i> , 2002, 11, 6-17.	3.1	26
101	<title>Zone plate for x-ray applications</title>. , 2001, 4145, 317.		0
102	Gaussian to rectangular light beam redistribution using computer-generated phase elements. , 2001, , .		0
103	LILIT beamline for soft and deep X-ray lithography at Elettra. <i>Microelectronic Engineering</i> , 2001, 57-58, 101-107.	1.1	25
104	Crystallization and preliminary X-ray analysis of two pH-dependent forms of cytochromec ₂ from <i>Rhodospseudomonas palustris</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 1699-1701.	2.5	6
105	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