

Frederic Jamme

List of Publications by Year in descending order

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101
papers

2,409
citations

230014

27
h-index

274796

44
g-index

110
all docs

110
docs citations

110
times ranked

3743
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the flax cell wall composition during development and after gravitropism by synchrotron fluorescence imaging. <i>Industrial Crops and Products</i> , 2022, 175, 114256.	2.5	6
2	Detection and localization of calcium oxalate in kidney using synchrotron deep ultraviolet fluorescence microscopy. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 214-223.	1.0	3
3	Evolution of the ultrastructure and polysaccharide composition of flax fibres over time: When history meets science. <i>Carbohydrate Polymers</i> , 2022, 291, 119584.	5.1	17
4	Anticipating global warming effects: A comprehensive study of drought impact of both flax plants and fibres. <i>Industrial Crops and Products</i> , 2022, 184, 115011.	2.5	6
5	Molecular changes tracking through multiscale fluorescence microscopy differentiate Meningioma grades and non-tumoral brain tissues. <i>Scientific Reports</i> , 2021, 11, 3816.	1.6	11
6	Second-Harmonic Generation of Halloysite Nanotubes for Bioimaging. <i>ACS Applied Nano Materials</i> , 2021, 4, 4351-4355.	2.4	2
7	The endosperm cavity of wheat grains contains a highly hydrated gel of arabinoxylan. <i>Plant Science</i> , 2021, 306, 110845.	1.7	10
8	Extensive investigation of the ultrastructure of kink-bands in flax fibres. <i>Industrial Crops and Products</i> , 2021, 164, 113368.	2.5	24
9	Investigations by AFM of Ageing Mechanisms in PLA-Flax Fibre Composites during Garden Composting. <i>Polymers</i> , 2021, 13, 2225.	2.0	8
10	PB1-F2 amyloid-like fibers correlate with proinflammatory signaling and respiratory distress in influenza-infected mice. <i>Journal of Biological Chemistry</i> , 2021, 297, 100885.	1.6	3
11	Lessons on textile history and fibre durability from a 4,000-year-old Egyptian flax yarn. <i>Nature Plants</i> , 2021, 7, 1200-1206.	4.7	10
12	Chemical, morphological and mechanical study of the ageing of textile flax fibers from 17th/18th-century paintings on canvas. <i>Journal of Cultural Heritage</i> , 2021, 52, 202-214.	1.5	7
13	Microfibril angle of elementary flax fibres investigated with polarised second harmonic generation microscopy. <i>Industrial Crops and Products</i> , 2020, 156, 112847.	2.5	16
14	FTIR micro-spectroscopy using synchrotron-based and thermal source-based radiation for probing live bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7049-7061.	1.9	14
15	The shell matrix of the european thorny oyster, <i>Spondylus gaederopus</i> : microstructural and molecular characterization. <i>Journal of Structural Biology</i> , 2020, 211, 107497.	1.3	9
16	Synchrotron multimodal imaging in a whole cell reveals lipid droplet core organization. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 772-778.	1.0	7
17	Time resolved transient circular dichroism spectroscopy using synchrotron natural polarization. <i>Structural Dynamics</i> , 2019, 6, 054307.	0.9	14
18	Mobility of pectin methylesterase in pectin/cellulose gels is enhanced by the presence of cellulose and by its catalytic capacity. <i>Scientific Reports</i> , 2019, 9, 12551.	1.6	13

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19	Optical Signatures Derived From Deep UV to NIR Excitation Discriminates Healthy Samples From Low and High Grades Glioma. <i>Scientific Reports</i> , 2019, 9, 8786.	1.6	20
20	Phenolic distribution in apple epidermal and outer cortex tissue by multispectral deep-UV autofluorescence cryo-imaging. <i>Plant Science</i> , 2019, 283, 51-59.	1.7	24
21	Monitoring food structure during digestion using small-angle scattering and imaging techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 96-106.	2.3	11
22	Discrimination between primary low and high grade tumor and secondary metastasis tumor from deep-UV to NIR. , 2019, , .		0
23	Handling Different Spatial Resolutions in Image Fusion by Multivariate Curve Resolution-Alternating Least Squares for Incomplete Image Multisets. <i>Analytical Chemistry</i> , 2018, 90, 6757-6765.	3.2	31
24	Multi-scale characterization of thermoplastic starch structure using Second Harmonic Generation imaging and NMR. <i>Carbohydrate Polymers</i> , 2018, 194, 80-88.	5.1	17
25	Tracking hidden organic carbon in rocks using chemometrics and hyperspectral imaging. <i>Scientific Reports</i> , 2018, 8, 2396.	1.6	12
26	Exploring the breakdown of dairy protein gels during in vitro gastric digestion using time-lapse synchrotron deep-UV fluorescence microscopy. <i>Food Chemistry</i> , 2018, 239, 898-910.	4.2	37
27	Selected case studies presenting advanced methodologies to study food and chemical industry materials: From the structural characterization of raw materials to the multisensory integration of food. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 46, 29-40.	2.7	1
28	Abiotic synthesis of amino acids in the recesses of the oceanic lithosphere. <i>Nature</i> , 2018, 564, 59-63.	13.7	170
29	Cryopreservation-related stresses in <i>Lactobacillus delbrueckii</i> SUBSP. <i>Bulgaricus</i> : Global and multi-scale study. <i>Cryobiology</i> , 2018, 85, 167.	0.3	0
30	Multimodal Analysis of Central Nervous System Tumor Tissue Endogenous Fluorescence With Multiscale Excitation. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	11
31	Synchrotron Time-Lapse Imaging of Lignocellulosic Biomass Hydrolysis: Tracking Enzyme Localization by Protein Autofluorescence and Biochemical Modification of Cell Walls by Microfluidic Infrared Microspectroscopy. <i>Frontiers in Plant Science</i> , 2018, 9, 200.	1.7	23
32	Toxicity of Food-Grade TiO ₂ to Commensal Intestinal and Transient Food-Borne Bacteria: New Insights Using Nano-SIMS and Synchrotron UV Fluorescence Imaging. <i>Frontiers in Microbiology</i> , 2018, 9, 794.	1.5	52
33	Characterization of Pustular Mats and Related <i>Rivularia</i> -Rich Laminations in Oncoids From the Laguna Negra Lake (Argentina). <i>Frontiers in Microbiology</i> , 2018, 9, 996.	1.5	35
34	Detection of human brain tumor infiltration with multimodal multiscale optical analysis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
35	Neighbouring pixel data augmentation: a simple way to fuse spectral and spatial information for hyperspectral imaging data analysis. <i>Journal of Chemometrics</i> , 2017, 31, e2882.	0.7	9
36	Patterns of metal distribution in hypersaline microbialites during early diagenesis: Implications for the fossil record. <i>Geobiology</i> , 2017, 15, 259-279.	1.1	40

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37	Subcellular membrane fluidity of <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> under cold and osmotic stress. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6907-6917.	1.7	21
38	Action of lytic polysaccharide monoxygenase on plant tissue is governed by cellular type. <i>Scientific Reports</i> , 2017, 7, 17792.	1.6	21
39	Long-term neurologic and cardiac correction by intrathecal gene therapy in Pompe disease. <i>Acta Neuropathologica Communications</i> , 2017, 5, 66.	2.4	46
40	Oversolubility in the microvicinity of solid-liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14874-14885.	1.3	7
41	Synchrotron Infrared and Deep UV Fluorescent Microspectroscopy Study of PB1-F2 \hat{I}^2 -Aggregated Structures in Influenza A Virus-infected Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 9060-9072.	1.6	14
42	Interstellar and interplanetary solids in the laboratory. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 416-419.	0.0	1
43	<i>Escherichia coli</i> under Ionic Silver Stress: An Integrative Approach to Explore Transcriptional, Physiological and Biochemical Responses. <i>PLoS ONE</i> , 2015, 10, e0145748.	1.1	21
44	Deep UV excited muscle cell autofluorescence varies with the fibre type. <i>Analyst, The</i> , 2015, 140, 4189-4196.	1.7	15
45	Understanding the cryotolerance of lactic acid bacteria using combined synchrotron infrared and fluorescence microscopies. <i>Analyst, The</i> , 2015, 140, 5920-5928.	1.7	28
46	Microscopic imaging of biphasic oil-air flow in french fries using synchrotron radiation. <i>AIChE Journal</i> , 2015, 61, 1427-1446.	1.8	15
47	Hyperspectral Deep Ultraviolet Autofluorescence of Muscle Fibers Is Affected by Postmortem Changes. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4782-4789.	2.4	13
48	Physiological and Biochemical Responses of <i>Yarrowia lipolytica</i> to Dehydration Induced by Air-Drying and Freezing. <i>PLoS ONE</i> , 2014, 9, e111138.	1.1	16
49	Ion irradiation of Allende meteorite probed by visible, IR, and Raman spectroscopies. <i>Icarus</i> , 2014, 237, 278-292.	1.1	60
50	A multi-scale approach of the mechanisms underlying exopolysaccharide auto-organization in the <i>Proteus mirabilis</i> extracellular matrix. <i>Analyst, The</i> , 2014, 139, 4879-4886.	1.7	2
51	Single vs. two-photon microscopy for label free intrinsic tissue studies in the UV light region. <i>Analyst, The</i> , 2014, 139, 2663-2667.	1.7	4
52	Protein Matrix Involved in the Lipid Retention of Foie Gras during Cooking: A Multimodal Hyperspectral Imaging Study. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 5954-5962.	2.4	10
53	3D Imaging of Enzymes Working in Situ. <i>Analytical Chemistry</i> , 2014, 86, 5265-5270.	3.2	22
54	Synchrotron UV fluorescence microscopy for determining membrane fluidity modification of single bacteria with temperatures. <i>Biomedical Spectroscopy and Imaging</i> , 2014, 3, 203-210.	1.2	7

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55	Interstellar and interplanetary carbonaceous solids in the laboratory. <i>Geochemical Journal</i> , 2014, 48, 511-518.	0.5	6
56	Aspects of Chemical Composition of Exodermal Cell Walls in Roots of Ni-Hyperaccumulating and Non-Hyperaccumulating Genotypes of <i>Senecio coronatus</i> . <i>Microscopy and Microanalysis</i> , 2014, 20, 1276-1277.	0.2	1
57	Microscopies synchrotron Å SOLEIL. <i>Photoniques</i> , 2014, , 30-33.	0.0	0
58	Synchrotron FTIR microspectroscopy of <i>Escherichia coli</i> at single-cell scale under silver-induced stress conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2685-2697.	1.9	25
59	UltraCarbonaceous Antarctic micrometeorites, probing the Solar System beyond the nitrogen snow-line. <i>Icarus</i> , 2013, 224, 243-252.	1.1	103
60	Chemometric Strategies To Unmix Information and Increase the Spatial Description of Hyperspectral Images: A Single-Cell Case Study. <i>Analytical Chemistry</i> , 2013, 85, 6303-6311.	3.2	43
61	Deep UV autofluorescence microscopy for cell biology and tissue histology. <i>Biology of the Cell</i> , 2013, 105, 277-288.	0.7	101
62	Synchrotron infrared confocal microscope: Application to infrared 3D spectral imaging. <i>Journal of Physics: Conference Series</i> , 2013, 425, 142002.	0.3	9
63	DUV cleaning of aluminium optics left at the atmosphere. <i>Journal of Physics: Conference Series</i> , 2013, 425, 122005.	0.3	1
64	Single Cell Synchrotron FT-IR Microspectroscopy Reveals a Link between Neutral Lipid and Storage Carbohydrate Fluxes in <i>S. cerevisiae</i> . <i>PLoS ONE</i> , 2013, 8, e74421.	1.1	28
65	Tomographie de fluorescence DUV sur des systÃmes dâ€™intÃrÃt biologique. , 2013, , 43-45.	0.1	0
66	A comprehensive overview of grain development in <i>Brachypodium distachyon</i> variety Bd21. <i>Journal of Experimental Botany</i> , 2012, 63, 739-755.	2.4	75
67	DISCO synchrotron-radiation circular-dichroism endstation at SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 831-835.	1.0	49
68	Coupling hyperspectral image data having different spatial resolutions using Multiple Co-inertia Analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 117, 200-212.	1.8	18
69	Infra-red imaging of bulk water and waterâ€™solid interfaces under stable and metastable conditions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2864.	1.3	11
70	Coupling hyperspectral image data having different spatial resolutions by extending multivariate inter-battery Tucker analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 113, 43-51.	1.8	8
71	In situ thermal denaturation of myofibre sub-type proteins studied by immunohistofluorescence and synchrotron radiation FT-IR microspectroscopy. <i>Food Chemistry</i> , 2012, 134, 1044-1051.	4.2	31
72	Atmospheric pressure photoionization using tunable VUV synchrotron radiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 279, 114-117.	0.6	14

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73	Synchrotron Ultraviolet Microspectroscopy on Rat Cortical Bone: Involvement of Tyrosine and Tryptophan in the Osteocyte and Its Environment. <i>PLoS ONE</i> , 2012, 7, e43930.	1.1	22
74	In Situ Tracking of Enzymatic Breakdown of Starch Granules by Synchrotron UV Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 989-993.	3.2	30
75	Synchrotron UV-Visible Multispectral Luminescence Microimaging of Historical Samples. <i>Analytical Chemistry</i> , 2011, 83, 1737-1745.	3.2	52
76	Synchrotron radiation infrared microspectroscopy to assess the activity of vancomycin against endocarditis vegetation bacteria. <i>Journal of Microbiological Methods</i> , 2011, 85, 235-238.	0.7	4
77	The fusion of lipid droplets is involved in fat loss during cooking of duck "foie gras". <i>Meat Science</i> , 2011, 89, 377-383.	2.7	12
78	Change in wall composition of transfer and aleurone cells during wheat grain development. <i>Planta</i> , 2011, 233, 393-406.	1.6	45
79	Mid-IR, Far-IR, Raman micro-spectroscopy, and FESEM-EDX study of IDP L2021C5: Clues to its origin. <i>Icarus</i> , 2011, 212, 896-910.	1.1	53
80	A differential pumping system to deliver windowless VUV photons at atmospheric pressure. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 546-549.	1.0	22
81	Infrared synchrotron radiation from bending magnet and edge radiation sources for the study of orientation and conformation in anisotropic materials. <i>Review of Scientific Instruments</i> , 2011, 82, 033710.	0.6	13
82	Brachypodium distachyon grain: characterization of endosperm cell walls. <i>Journal of Experimental Botany</i> , 2011, 62, 1001-1015.	2.4	81
83	Diffusion of Ofloxacin in the Endocarditis Vegetation Assessed with Synchrotron Radiation UV Fluorescence Microspectroscopy. <i>PLoS ONE</i> , 2011, 6, e19440.	1.1	11
84	Synchrotron FTIR microspectroscopy of the yeast <i>Saccharomyces cerevisiae</i> after exposure to plasma-deposited nanosilver-containing coating. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1441-1450.	1.9	37
85	Toxicity and phototoxicity of Hypocrellin A on malignant human cell lines, evidence of a synergistic action of photodynamic therapy with Imatinib mesylate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 99, 100-104.	1.7	19
86	The water clock of <i>Proteus mirabilis</i> paces colony periodic and synchronous swarming. <i>Nature Precedings</i> , 2010, , .	0.1	0
87	Photon- and electron-stimulated desorption from laboratory models of interstellar ice grains. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 799-806.	0.9	17
88	Synchrotron UV Fluorescence Microscopy Uncovers New Probes in Cells and Tissues. <i>Microscopy and Microanalysis</i> , 2010, 16, 507-514.	0.2	78
89	Multimodal Spectroscopy Combining Time-of-Flight-Secondary Ion Mass Spectrometry, Synchrotron-FT-IR, and Synchrotron-UV Microspectroscopies on the Same Tissue Section. <i>Analytical Chemistry</i> , 2010, 82, 3963-3968.	3.2	53
90	Macromolecular Orientation in Glassy Starch Materials That Exhibit Shape Memory Behavior. <i>Macromolecules</i> , 2010, 43, 9854-9858.	2.2	20

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91	Fourier Transform Infrared Microspectroscopy of Endocarditis Vegetation. <i>Applied Spectroscopy</i> , 2010, 64, 901-906.	1.2	9
92	Wheat endosperm cell walls: Spatial heterogeneity of polysaccharide structure and composition using micro-scale enzymatic fingerprinting and FT-IR microspectroscopy. <i>Journal of Cereal Science</i> , 2009, 50, 312-317.	1.8	58
93	DISCO: a low-energy multipurpose beamline at synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 835-841.	1.0	129
94	Aleurone Cell Walls of Wheat Grain: High Spatial Resolution Investigation Using Synchrotron Infrared Microspectroscopy. <i>Applied Spectroscopy</i> , 2008, 62, 895-900.	1.2	37
95	Photosensitizer effects on cancerous cells: A combined study using synchrotron infrared and fluorescence microscopies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 854-860.	1.1	23
96	Surface science investigations of photoprocesses in model interstellar ices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 919-924.	0.9	18
97	Desorption of Hot Molecules from Photon Irradiated Interstellar Ices. <i>Astrophysical Journal</i> , 2008, 673, 1233-1239.	1.6	30
98	Towards a fully optimised organic LED device: Analysis of surface synthesis using coupling reactions by ToF-SIMS. <i>Applied Surface Science</i> , 2006, 252, 6672-6675.	3.1	13
99	Preferred metabolic pathway of bovine muscle fibre revealed by synchrotron "deep ultraviolet fluorescence imaging. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	1
100	Assessment of adeno-associated virus gene therapies efficacy on acid alpha-glucosidase restoration and glycogen storage correction in cardiac muscle of Pompe disease mice using synchrotron infrared and ultraviolet microspectroscopies. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	1
101	Impact of the influenza protein PB1-F2 on the biochemical composition of human epithelial cells revealed by synchrotron Fourier transform infrared spectromicroscopy. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	0