

Thierry Lefevre

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66 papers	2,513 citations	25 h-index	49 g-index
72 ext. papers	2,734 ext. citations	4.4 avg, IF	5.01 L-index

#	Paper	IF	Citations
66	Protein secondary structure and orientation in silk as revealed by Raman spectromicroscopy. <i>Biophysical Journal</i> , 2007 , 92, 2885-95	2.9	317
65	Study of protein conformation and orientation in silkworm and spider silk fibers using Raman microspectroscopy. <i>Biomacromolecules</i> , 2004 , 5, 2247-57	6.9	256
64	Molecular differences in the formation and structure of fine-stranded and particulate beta-lactoglobulin gels. <i>Biopolymers</i> , 2000 , 54, 578-86	2.2	199
63	Effects of ultra-high pressure homogenization on the properties and structure of interfacial protein layer in whey protein-stabilized emulsion. <i>Food Chemistry</i> , 2009 , 113, 191-195	8.5	114
62	Formation of intermolecular beta-sheet structures: a phenomenon relevant to protein film structure at oil-water interfaces of emulsions. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 59-67	9.3	101
61	Structural and interaction properties of β -lactoglobulin as studied by FTIR spectroscopy. <i>International Journal of Food Science and Technology</i> , 1999 , 34, 419-428	3.8	98
60	Review structure of silk by raman spectromicroscopy: from the spinning glands to the fibers. <i>Biopolymers</i> , 2012 , 97, 322-36	2.2	75
59	Native spider silk as a biological optical fiber. <i>Applied Physics Letters</i> , 2013 , 102, 123702	3.4	75
58	Characterization by Raman microspectroscopy of the strain-induced conformational transition in fibroin fibers from the silkworm <i>Samia cynthia ricini</i> . <i>Biomacromolecules</i> , 2006 , 7, 2512-21	6.9	74
57	Evidence by infrared spectroscopy of the presence of two types of β -sheets in major ampullate spider silk and silkworm silk. <i>Soft Matter</i> , 2013 , 9, 208-215	3.6	73
56	Diversity of molecular transformations involved in the formation of spider silks. <i>Journal of Molecular Biology</i> , 2011 , 405, 238-53	6.5	68
55	Conformation and orientation of proteins in various types of silk fibers produced by <i>Nephila clavipes</i> spiders. <i>Biomacromolecules</i> , 2009 , 10, 2945-53	6.9	67
54	Changes and roles of secondary structures of whey protein for the formation of protein membrane at soy oil/water interface under high-pressure homogenization. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 10924-31	5.7	67
53	Conformational and orientational transformation of silk proteins in the major ampullate gland of <i>Nephila clavipes</i> spiders. <i>Biomacromolecules</i> , 2008 , 9, 2399-407	6.9	64
52	Interaction of beta-lactoglobulin with phospholipid bilayers: a molecular level elucidation as revealed by infrared spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2000 , 28, 59-67	7.9	62
51	In situ conformation of spider silk proteins in the intact major ampullate gland and in solution. <i>Biomacromolecules</i> , 2007 , 8, 2342-4	6.9	57
50	Molecular description of the formation and structure of plasticized globular protein films. <i>Biomacromolecules</i> , 2005 , 6, 3209-19	6.9	54

49	Molecular structure and interaction of biopolymers as viewed by Fourier transform infrared spectroscopy: model studies on β -lactoglobulin. <i>Food Hydrocolloids</i> , 2001 , 15, 365-376	10.6	52
48	Study of protein aggregation using two-dimensional correlation infrared spectroscopy and spectral simulations. <i>Biopolymers</i> , 2004 , 73, 705-15	2.2	45
47	Conformational rearrangement of beta-lactoglobulin upon interaction with an anionic membrane. <i>BBA - Proteins and Proteomics</i> , 2001 , 1549, 37-50		39
46	Attenuated total reflection infrared spectroscopy: an efficient technique to quantitatively determine the orientation and conformation of proteins in single silk fibers. <i>Applied Spectroscopy</i> , 2008 , 62, 956-62	3.1	38
45	Orientation-insensitive spectra for Raman microspectroscopy. <i>Applied Spectroscopy</i> , 2006 , 60, 841-6	3.1	36
44	Effect of pH on the structure of the recombinant C-terminal domain of Nephila clavipes dragline silk protein. <i>Biomacromolecules</i> , 2014 , 15, 4447-54	6.9	34
43	Spider silk as a blueprint for greener materials: a review. <i>International Materials Reviews</i> , 2016 , 61, 127-153	5.1	33
42	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor. <i>Scientific Reports</i> , 2015 , 5, 11502	4.9	25
41	Mimicking and Understanding the Agglutination Effect of the Antimicrobial Peptide Thanatin Using Model Phospholipid Vesicles. <i>Biochemistry</i> , 2015 , 54, 3932-41	3.2	24
40	A comparative study between human skin substitutes and normal human skin using Raman microspectroscopy. <i>Acta Biomaterialia</i> , 2014 , 10, 2703-11	10.8	24
39	Study by Raman spectromicroscopy of the effect of tensile deformation on the molecular structure of Bombyx mori silk. <i>Vibrational Spectroscopy</i> , 2009 , 51, 136-141	2.1	23
38	Unexpected β -sheets and molecular orientation in flagelliform spider silk as revealed by Raman spectromicroscopy. <i>Soft Matter</i> , 2012 , 8, 6350	3.6	18
37	Vibrational Circular Dichroism Reveals Supramolecular Chirality Inversion of β -Synuclein Peptide Assemblies upon Interactions with Anionic Membranes. <i>ACS Nano</i> , 2019 , 13, 3232-3242	16.7	18
36	Hydrodynamical properties of recombinant spider silk proteins: Effects of pH, salts and shear, and implications for the spinning process. <i>Biopolymers</i> , 2013 , 99, 582-93	2.2	17
35	Understanding amyloid fibril formation using protein fragments: structural investigations via vibrational spectroscopy and solid-state NMR. <i>Biophysical Reviews</i> , 2018 , 10, 1133-1149	3.7	16
34	Solvation of Lauric Acid Studied by Vibrational Spectroscopies. <i>Applied Spectroscopy</i> , 1995 , 49, 1268-1274	4.1	15
33	Major Ampullate Spider Silk with Indistinguishable Spidroin Dope Conformations Leads to Different Fiber Molecular Structures. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	15
32	Structure and membrane interactions of the β -amyloid fragment 25-35 as viewed using spectroscopic approaches. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7228-39	3.6	14

31	Vitamin E-phospholipid interactions in model multilayer membranes: A spectroscopic study. <i>Biospectroscopy</i> , 1998 , 2, 391-403		13
30	Mutant bovine odorant-binding protein: Temperature affects the protein stability and dynamics as revealed by infrared spectroscopy and molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 769-78	4.2	13
29	Structure and pH-induced alterations of recombinant and natural spider silk proteins in solution. <i>Biopolymers</i> , 2012 , 97, 337-46	2.2	12
28	Structure and mechanical properties of spider silk films at the air-water interface. <i>Langmuir</i> , 2013 , 29, 7931-8	4	11
27	Surface properties and conformation of Nephila clavipes spider recombinant silk proteins at the air-water interface. <i>Langmuir</i> , 2009 , 25, 8170-80	4	11
26	A quantitative analysis of the supercontraction-induced molecular disorientation of major ampullate spider silk. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31487-31498	3.6	10
25	Besides fibrillization: putative role of the peptide fragment 71-82 on the structural and assembly behavior of Eynuclein. <i>Biochemistry</i> , 2014 , 53, 6463-72	3.2	10
24	Raman and Fourier transform infrared study of phytol effects on saturated and unsaturated lipid multibilayers. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 4-12	2.3	10
23	Crystallization of water in multilamellar vesicles. <i>European Biophysics Journal</i> , 2002 , 31, 126-35	1.9	9
22	Binding of pediocin PA-1 with anionic lipid induces model membrane destabilization. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6777-84	4.8	9
21	Discriminating Lipid- from Protein-Calcium Binding To Understand the Interaction between Recoverin and Phosphatidylglycerol Model Membranes. <i>Biochemistry</i> , 2016 , 55, 3481-91	3.2	8
20	Structural and Mechanical Roles for the C-Terminal Nonrepetitive Domain Become Apparent in Recombinant Spider Aciniform Silk. <i>Biomacromolecules</i> , 2017 , 18, 3678-3686	6.9	8
19	Using infrared and Raman microspectroscopies to compare ex vivo involved psoriatic skin with normal human skin. <i>Journal of Biomedical Optics</i> , 2015 , 20, 067004	3.5	8
18	Importance of the Reference Spectrum on Generalized Two-Dimensional Correlation Spectroscopy: Relation between Intensity Variations and Synchronism. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 6366-6372	2.8	8
17	Interaction of oil bodies proteins with phospholipid bilayers: A molecular level elucidation as revealed by infrared spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 873-881	7.9	8
16	Spider silk inspired materials and sustainability: perspective. <i>Materials Technology</i> , 2016 , 1-16	2.1	7
15	The thermal stability of recoverin depends on calcium binding and its myristoyl moiety as revealed by infrared spectroscopy. <i>Biochemistry</i> , 2014 , 53, 48-56	3.2	6
14	Membrane fluidity is a driving force for recoverin myristoyl immobilization in zwitterionic lipids. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 490, 1268-1273	3.4	6

13	Mapping molecular orientation in dry and wet <i>Nephila clavipes</i> dragline spider silk. <i>Journal of Physics: Conference Series</i> , 2009 , 186, 012089	0.3	6
12	Chapter 8 Characterization of Molecular Orientation. <i>Comprehensive Analytical Chemistry</i> , 2008 , 295-335	1.9	6
11	Structure of a Parkinson's Disease-Involved α -Synuclein Peptide Is Modulated by Membrane Composition and Physical State. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3469-3481	3.4	5
10	Effect of mechanical deformation on the structure of regenerated <i>Bombyx mori</i> silk fibroin films as revealed using Raman and infrared spectroscopy. <i>Applied Spectroscopy</i> , 2015 , 69, 689-98	3.1	5
9	15. Protein- and peptide-based materials: a source of inspiration for innovation		4
8	Solid-state nuclear magnetic resonance (NMR) spectroscopy reveals distinctive protein dynamics in closely related spider silks. <i>Canadian Journal of Chemistry</i> , 2011 , 89, 1047-1054	0.9	4
7	Thermotropic aspects of multilamellar organisation of mono-unsaturated phospholipid OPPE. <i>Chemistry and Physics of Lipids</i> , 1998 , 92, 79-89	3.7	4
6	Novel approaches to probe the binding of recoverin to membranes. <i>European Biophysics Journal</i> , 2018 , 47, 679-691	1.9	3
5	A surface spectroscopy study of a <i>Pseudomonas fluorescens</i> biofilm in the presence of an immobilized air bubble. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 222, 117163	4.4	1
4	Lipid membrane interactions of a fluorinated peptide with potential ion channel-forming ability. <i>Peptide Science</i> , 2019 , 111, e24051	3	1
3	Raman Microspectroscopy: An Ideal Technique to Study the Conformation and Orientation of Proteins in Silkworm and Spider Silk Fibers. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1314-1315	0.5	
2	Troloxerutine and Vitamin E Interactions in Model Membranes. a Spectroscopic Study		1995, 407-408
1	Transdermal diffusion, spatial distribution and physical state of a potential anticancer drug in mouse skin as studied by diffusion and spectroscopic techniques. <i>Biomedical Spectroscopy and Imaging</i> , 2018 , 7, 47-61	1.3	