Thierry Lefevre

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Structure of a Parkinson's Disease-Involved α-Synuclein Peptide Is Modulated by Membrane Composition and Physical State. *Journal of Physical Chemistry B*, **2020**, 124, 3469-3481	3.4	5
65	A surface spectroscopy study of a Pseudomonas fluorescens biofilm in the presence of an immobilized air bubble. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 222, 117163	4.4	1
64	Vibrational Circular Dichroism Reveals Supramolecular Chirality Inversion of α-Synuclein Peptide Assemblies upon Interactions with Anionic Membranes. *ACS Nano*, **2019**, 13, 3232-3242	16.7	18
63	Interaction of oil bodies proteins with phospholipid bilayers: A molecular level elucidation as revealed by infrared spectroscopy. *International Journal of Biological Macromolecules*, **2019**, 122, 873-881	7.9	8
62	Lipid membrane interactions of a fluorinated peptide with potential ion channel-forming ability. *Peptide Science*, **2019**, 111, e24051	3	1
61	Novel approaches to probe the binding of recoverin to membranes. *European Biophysics Journal*, **2018**, 47, 679-691	1.9	3
60	Transdermal diffusion, spatial distribution and physical state of a potential anticancer drug in mouse skin as studied by diffusion and spectroscopic techniques. *Biomedical Spectroscopy and Imaging*, **2018**, 7, 47-61	1.3	
59	Understanding amyloid fibril formation using protein fragments: structural investigations via vibrational spectroscopy and solid-state NMR. *Biophysical Reviews*, **2018**, 10, 1133-1149	3.7	16
58	Structural and Mechanical Roles for the C-Terminal Nonrepetitive Domain Become Apparent in Recombinant Spider Aciniform Silk. *Biomacromolecules*, **2017**, 18, 3678-3686	6.9	8
57	A quantitative analysis of the supercontraction-induced molecular disorientation of major ampullate spider silk. *Physical Chemistry Chemical Physics*, **2017**, 19, 31487-31498	3.6	10
56	Membrane fluidity is a driving force for recoverin myristoyl immobilization in zwitterionic lipids. *Biochemical and Biophysical Research Communications*, **2017**, 490, 1268-1273	3.4	6
55	Discriminating Lipid- from Protein-Calcium Binding To Understand the Interaction between Recoverin and Phosphatidylglycerol Model Membranes. *Biochemistry*, **2016**, 55, 3481-91	3.2	8
54	Spider silk as a blueprint for greener materials: a review. *International Materials Reviews*, **2016**, 61, 127-153	13.1	33
53	Spider silk inspired materials and sustainability: perspective. *Materials Technology*, **2016**, 1-16	2.1	7
52	Major Ampullate Spider Silk with Indistinguishable Spidroin Dope Conformations Leads to Different Fiber Molecular Structures. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	15
51	Mimicking and Understanding the Agglutination Effect of the Antimicrobial Peptide Thanatin Using Model Phospholipid Vesicles. *Biochemistry*, **2015**, 54, 3932-41	3.2	24
50	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor. *Scientific Reports*, **2015**, 5, 11502	4.9	25

49	Using infrared and Raman microspectroscopies to compare ex vivo involved psoriatic skin with normal human skin. *Journal of Biomedical Optics*, **2015**, 20, 067004	3.5	8
48	Effect of mechanical deformation on the structure of regenerated Bombyx mori silk fibroin films as revealed using Raman and infrared spectroscopy. *Applied Spectroscopy*, **2015**, 69, 689-98	3.1	5
47	The thermal stability of recoverin depends on calcium binding and its myristoyl moiety as revealed by infrared spectroscopy. *Biochemistry*, **2014**, 53, 48-56	3.2	6
46	Effect of pH on the structure of the recombinant C-terminal domain of Nephila clavipes dragline silk protein. *Biomacromolecules*, **2014**, 15, 4447-54	6.9	34
45	Besides fibrillization: putative role of the peptide fragment 71-82 on the structural and assembly behavior of □ynuclein. *Biochemistry*, **2014**, 53, 6463-72	3.2	10
44	15. Protein- and peptide-based materials: a source of inspiration for innovation **2014**, 415-442		4
43	A comparative study between human skin substitutes and normal human skin using Raman microspectroscopy. *Acta Biomaterialia*, **2014**, 10, 2703-11	10.8	24
42	Structure and membrane interactions of the □amyloid fragment 25-35 as viewed using spectroscopic approaches. *Physical Chemistry Chemical Physics*, **2013**, 15, 7228-39	3.6	14
41	Native spider silk as a biological optical fiber. *Applied Physics Letters*, **2013**, 102, 123702	3.4	75
40	Evidence by infrared spectroscopy of the presence of two types of □sheets in major ampullate spider silk and silkworm silk. *Soft Matter*, **2013**, 9, 208-215	3.6	73
39	Structure and mechanical properties of spider silk films at the air-water interface. *Langmuir*, **2013**, 29, 7931-8	4	11
38	Hydrodynamical properties of recombinant spider silk proteins: Effects of pH, salts and shear, and implications for the spinning process. *Biopolymers*, **2013**, 99, 582-93	2.2	17
37	Review structure of silk by raman spectromicroscopy: from the spinning glands to the fibers. *Biopolymers*, **2012**, 97, 322-36	2.2	75
36	Structure and pH-induced alterations of recombinant and natural spider silk proteins in solution. *Biopolymers*, **2012**, 97, 337-46	2.2	12
35	Unexpected □sheets and molecular orientation in flagelliform spider silk as revealed by Raman spectromicroscopy. *Soft Matter*, **2012**, 8, 6350	3.6	18
34	Diversity of molecular transformations involved in the formation of spider silks. *Journal of Molecular Biology*, **2011**, 405, 238-53	6.5	68
33	Solid-state nuclear magnetic resonance (NMR) spectroscopy reveals distinctive protein dynamics in closely related spider silks. *Canadian Journal of Chemistry*, **2011**, 89, 1047-1054	0.9	4
32	Mapping molecular orientation in dry and wetNephila clavipesdragline spider silk. *Journal of Physics: Conference Series*, **2009**, 186, 012089	0.3	6

31	Study by Raman spectromicroscopy of the effect of tensile deformation on the molecular structure of Bombyx mori silk. *Vibrational Spectroscopy*, **2009**, 51, 136-141	2.1	23
30	Effects of ultra-high pressure homogenization on the properties and structure of interfacial protein layer in whey protein-stabilized emulsion. *Food Chemistry*, **2009**, 113, 191-195	8.5	114
29	Surface properties and conformation of Nephila clavipes spider recombinant silk proteins at the air-water interface. *Langmuir*, **2009**, 25, 8170-80	4	11
28	Conformation and orientation of proteins in various types of silk fibers produced by Nephila clavipes spiders. *Biomacromolecules*, **2009**, 10, 2945-53	6.9	67
27	Chapter 8 Characterization of Molecular Orientation. *Comprehensive Analytical Chemistry*, **2008**, 295-335	1.9	6
26	Attenuated total reflection infrared spectroscopy: an efficient technique to quantitatively determine the orientation and conformation of proteins in single silk fibers. *Applied Spectroscopy*, **2008**, 62, 956-62	3.1	38
25	Conformational and orientational transformation of silk proteins in the major ampullate gland of Nephila clavipes spiders. *Biomacromolecules*, **2008**, 9, 2399-407	6.9	64
24	Mutant bovine odorant-binding protein: Temperature affects the protein stability and dynamics as revealed by infrared spectroscopy and molecular dynamics simulations. *Proteins: Structure, Function and Bioinformatics*, **2008**, 72, 769-78	4.2	13
23	Changes and roles of secondary structures of whey protein for the formation of protein membrane at soy oil/water interface under high-pressure homogenization. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 10924-31	5.7	67
22	In situ conformation of spider silk proteins in the intact major ampullate gland and in solution. *Biomacromolecules*, **2007**, 8, 2342-4	6.9	57
21	Protein secondary structure and orientation in silk as revealed by Raman spectromicroscopy. *Biophysical Journal*, **2007**, 92, 2885-95	2.9	317
20	Characterization by Raman microspectroscopy of the strain-induced conformational transition in fibroin fibers from the silkworm Samia cynthia ricini. *Biomacromolecules*, **2006**, 7, 2512-21	6.9	74
19	Orientation-insensitive spectra for Raman microspectroscopy. *Applied Spectroscopy*, **2006**, 60, 841-6	3.1	36
18	Molecular description of the formation and structure of plasticized globular protein films. *Biomacromolecules*, **2005**, 6, 3209-19	6.9	54
17	Study of protein aggregation using two-dimensional correlation infrared spectroscopy and spectral simulations. *Biopolymers*, **2004**, 73, 705-15	2.2	45
16	Study of protein conformation and orientation in silkworm and spider silk fibers using Raman microspectroscopy. *Biomacromolecules*, **2004**, 5, 2247-57	6.9	256
15	Raman Microspectroscopy: An Ideal Technique to Study the Conformation and Orientation of Proteins in Silkworm and Spider Silk Fibers. *Microscopy and Microanalysis*, **2004**, 10, 1314-1315	0.5	
14	Raman and Fourier transform infrared study of phytol effects on saturated and unsaturated lipid multibilayers. *Journal of Raman Spectroscopy*, **2003**, 34, 4-12	2.3	10

13	Formation of intermolecular beta-sheet structures: a phenomenon relevant to protein film structure at oil-water interfaces of emulsions. *Journal of Colloid and Interface Science*, **2003**, 263, 59-67	9.3	101
12	Importance of the Reference Spectrum on Generalized Two-Dimensional Correlation Spectroscopy: Relation between Intensity Variations and Synchronism. *Journal of Physical Chemistry A*, **2003**, 107, 6366-6372	2.8	8
11	Binding of pediocin PA-1 with anionic lipid induces model membrane destabilization. *Applied and Environmental Microbiology*, **2003**, 69, 6777-84	4.8	9
10	Crystallization of water in multilamellar vesicles. *European Biophysics Journal*, **2002**, 31, 126-35	1.9	9
9	Conformational rearrangement of beta-lactoglobulin upon interaction with an anionic membrane. *BBA - Proteins and Proteomics*, **2001**, 1549, 37-50		39
8	Molecular structure and interaction of biopolymers as viewed by Fourier transform infrared spectroscopy: model studies on β-lactoglobulin. *Food Hydrocolloids*, **2001**, 15, 365-376	10.6	52
7	Molecular differences in the formation and structure of fine-stranded and particulate beta-lactoglobulin gels. *Biopolymers*, **2000**, 54, 578-86	2.2	199
6	Interaction of beta-lactoglobulin with phospholipid bilayers: a molecular level elucidation as revealed by infrared spectroscopy. *International Journal of Biological Macromolecules*, **2000**, 28, 59-67	7.9	62
5	Structural and interaction properties of β-Lactoglobulin as studied by FTIR spectroscopy. *International Journal of Food Science and Technology*, **1999**, 34, 419-428	3.8	98
4	Thermotropic aspects of multilamellar organisation of mono-unsaturated phospholipid OPPC. *Chemistry and Physics of Lipids*, **1998**, 92, 79-89	3.7	4
3	Vitamin E-phospholipid interactions in model multilayer membranes: A spectroscopic study. *Biospectroscopy*, **1998**, 2, 391-403		13
2	Solvation of Lauric Acid Studied by Vibrational Spectroscopies. *Applied Spectroscopy*, **1995**, 49, 1268-1274	3.1	15
1	Troxerutine and Vitamin E Interactions in Model Membranes. a Spectroscopic Study **1995**, 407-408		