

Sophie Lecomte

List of Publications by Year in descending order

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94
papers

2,747
citations

136950

32
h-index

206112

48
g-index

100
all docs

100
docs citations

100
times ranked

3946
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered structural connectivity of cortico-striato-pallido-thalamic networks in Gilles de la Tourette syndrome. <i>Brain</i> , 2015, 138, 472-482.	7.6	184
2	Hevea brasiliensis REF (Hev b 1) and SRPP (Hev b 3): An overview on rubber particle proteins. <i>Biochimie</i> , 2014, 106, 1-9.	2.6	100
3	The role of tryptophans on the cellular uptake and membrane interaction of arginine-rich cell penetrating peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 593-602.	2.6	89
4	Micro-Raman spectroscopy (MRS) and surface-enhanced Raman scattering (SERS) on organic colourants in archaeological pigments. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1001-1006.	2.5	88
5	Rubber Elongation Factor (REF), a Major Allergen Component in Hevea brasiliensis Latex Has Amyloid Properties. <i>PLoS ONE</i> , 2012, 7, e48065.	2.5	80
6	Electrochemistry, AFM, and PM-RRRA Spectroscopy of Immobilized Hydrogenase: Role of a Hydrophobic Helix in Enzyme Orientation for Efficient H ₂ Oxidation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 953-956.	13.8	79
7	Combining microfluidics and FT-IR spectroscopy: towards spatially resolved information on chemical processes. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 577-594.	3.7	77
8	Detection of an estrogen derivative in two breast cancer cell lines using a single core multimodal probe for imaging (SCoMPI) imaged by a panel of luminescent and vibrational techniques. <i>Analyst</i> , The, 2013, 138, 5627.	3.5	75
9	Stabilization of air bubbles in oil by surfactant crystals: A route to produce air-in-oil foams and air-in-oil-in-water emulsions. <i>Food Research International</i> , 2015, 67, 366-375.	6.2	69
10	What does make an amyloid toxic: Morphology, structure or interaction with membrane?. <i>Biochimie</i> , 2013, 95, 12-19.	2.6	65
11	Rubber particle proteins, HbREF and HbSRPP, show different interactions with model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 287-299.	2.6	63
12	The effect of surfactant crystallization on partial coalescence in O/W emulsions. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 304-314.	9.4	58
13	A proapoptotic peptide conjugated to penetratin selectively inhibits tumor cell growth. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2087-2098.	2.6	57
14	Tip-Enhanced Raman Spectroscopy to Distinguish Toxic Oligomers from A _β ¹⁻⁴² Fibrils at the Nanometer Scale. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1771-1774.	13.8	56
15	Ion-pair interactions favor cell penetration of arginine/tryptophan-rich cell-penetrating peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183098.	2.6	51
16	Quantitative label-free RNA detection using surface-enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2011, 47, 7425.	4.1	49
17	Highlights on Hevea brasiliensis (pro)hevein proteins. <i>Biochimie</i> , 2016, 127, 258-270.	2.6	48
18	Interaction of A _β ¹⁻⁴² Amyloids with Lipids Promotes Off-Pathway Oligomerization and Membrane Damage. <i>Biomacromolecules</i> , 2015, 16, 944-950.	5.4	44

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19	Efficiency of Enzymatic O ₂ Reduction by <i>Myrothecium verrucaria</i> Bilirubin Oxidase Probed by Surface Plasmon Resonance, PMIRRAS, and Electrochemistry. <i>ACS Catalysis</i> , 2016, 6, 5482-5492.	11.2	44
20	High speed atomic force microscopy to investigate the interactions between toxic A β ₁₋₄₂ peptides and model membranes in real time: impact of the membrane composition. <i>Nanoscale</i> , 2019, 11, 7229-7238.	5.6	43
21	Multimodal Imaging Based on Vibrational Spectroscopies and Mass Spectrometry Imaging Applied to Biological Tissue: A Multiscale and Multiomics Review. <i>Analytical Chemistry</i> , 2021, 93, 445-477.	6.5	43
22	In Vivo and In Vitro Analyses of Toxic Mutants of HET-s: FTIR Antiparallel Signature Correlates with Amyloid Toxicity. <i>Journal of Molecular Biology</i> , 2011, 412, 137-152.	4.2	42
23	Electrostatic-Driven Activity, Loading, Dynamics, and Stability of a Redox Enzyme on Functionalized-Gold Electrodes for Bioelectrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 12004-12014.	11.2	42
24	A Structure-Toxicity Study of A β ₄₂ Reveals a New Anti-Parallel Aggregation Pathway. <i>PLoS ONE</i> , 2013, 8, e80262.	2.5	41
25	Tip-Enhanced Raman Spectroscopy: A Tool for Nanoscale Chemical and Structural Characterization of Biomolecules. <i>ChemPhysChem</i> , 2018, 19, 8-18.	2.1	41
26	Naproxen-Nicotinamide Cocrystals: Racemic and Conglomerate Structures Generated by CO ₂ Antisolvent Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 4616-4626.	3.0	40
27	Molecular architecture of bacterial amyloids in <i>Bacillus</i> biofilms. <i>FASEB Journal</i> , 2019, 33, 12146-12163.	0.5	40
28	Naproxen-nicotinamide cocrystals produced by CO ₂ antisolvent. <i>Journal of Supercritical Fluids</i> , 2013, 83, 78-85.	3.2	37
29	Dynamics of the Heterogeneous Electron-Transfer Reaction of Cytochrome c552 from <i>Thermus thermophilus</i> . A Time-Resolved Surface-Enhanced Resonance Raman Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10053-10064.	2.6	36
30	Interaction of A β ₁₋₄₂ peptide or their variant with model membrane of different composition probed by infrared nanospectroscopy. <i>Nanoscale</i> , 2018, 10, 936-940.	5.6	35
31	Gated electron transfer of cytochrome c6 at biomimetic interfaces: a time-resolved SERR study. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7390.	2.8	34
32	Membrane domain modulation of A β ₁₋₄₂ oligomer interactions with supported lipid bilayers: an atomic force microscopy investigation. <i>Nanoscale</i> , 2019, 11, 20857-20867.	5.6	34
33	Development and Characterization of New Cyclodextrin Polymer-Based DNA Delivery Systems. <i>Bioconjugate Chemistry</i> , 2008, 19, 2311-2320.	3.6	33
34	Probing the kinetics of lipid membrane formation and the interaction of a nontoxic and a toxic amyloid with plasmon waveguide resonance. <i>Chemical Communications</i> , 2014, 50, 4168-4171.	4.1	33
35	Structural dissection of amyloid aggregates of TDP β ₄₃ and its C-terminal fragments TDP β ₃₅ and TDP β ₁₆ . <i>FEBS Journal</i> , 2020, 287, 2449-2467.	4.7	33
36	Rubber particle proteins REF1 and SRPP1 interact differently with native lipids extracted from <i>Hevea brasiliensis</i> latex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 201-210.	2.6	31

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37	DNA compaction into new DNA vectors based on cyclodextrin polymer: Surface enhanced Raman spectroscopy characterization. <i>Biopolymers</i> , 2006, 81, 360-370.	2.4	30
38	Gold Nanoparticle Deposition on Silica Nanohelices: A New Controllable 3D Substrate in Aqueous Suspension for Optical Sensing. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23143-23152.	3.1	30
39	SERS Spectra of Oligonucleotides as Fingerprints to Detect Label-Free RNA in Microfluidic Devices. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13965-13971.	3.1	28
40	Homologous Hevea brasiliensis REF (Hevb1) and SRPP (Hevb3) present different auto-assembling. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 473-485.	2.3	27
41	High Speed AFM and Nanoinfrared Spectroscopy Investigation of A β 1-42 Peptide Variants and Their Interaction With POPC/SM/Chol/GM1 Model Membranes. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 571696.	3.5	26
42	What is the fate of multi-lamellar liposomes of controlled size, charge and elasticity in artificial and animal skin?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 151, 18-31.	4.3	26
43	Comparative Studies of Nontoxic and Toxic Amyloids Interacting with Membrane Models at the Air-Water Interface. <i>Langmuir</i> , 2011, 27, 4797-4807.	3.5	25
44	Tip-Enhanced Raman Spectroscopy to Distinguish Toxic Oligomers from A β 1-42 Fibrils at the Nanometer Scale. <i>Angewandte Chemie</i> , 2017, 129, 1797-1800.	2.0	25
45	Surface-enhanced raman spectroscopy investigation of fluoroquinolones-DNA-DNA gyrase-Mg ²⁺ interactions. II. Interaction of pefloxacin with Mg ²⁺ and DNA. <i>Biospectroscopy</i> , 1997, 3, 31-45.	0.6	24
46	Driving amyloid toxicity in a yeast model by structural changes: a molecular approach. <i>FASEB Journal</i> , 2009, 23, 2254-2263.	0.5	24
47	Investigation of the effects of two major secretory granules components, insulin and zinc, on human-IAPP amyloid aggregation and membrane damage. <i>Chemistry and Physics of Lipids</i> , 2021, 237, 105083.	3.2	24
48	Synthetic toxic A β 1-42 oligomers can assemble in different morphologies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1168-1176.	2.4	19
49	Stranded in the high tide line: Spatial and temporal variability of beached microplastics in a semi-enclosed embayment (Arcachon, France). <i>Science of the Total Environment</i> , 2021, 797, 149144.	8.0	18
50	Electron transfer in an acidophilic bacterium: interaction between a diheme cytochrome and a cupredoxin. <i>Chemical Science</i> , 2018, 9, 4879-4891.	7.4	17
51	PIP ₂ Phospholipid-Induced Aggregation of Tau Filaments Probed by Tip-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15738-15742.	13.8	17
52	Cholesterol impacts chemokine CCR5 receptor ligand-binding activity. <i>FEBS Journal</i> , 2020, 287, 2367-2385.	4.7	17
53	Elaboration of a new hydrogen peroxide biosensor using microperoxidase 8 (MP8) immobilized on a polypyrrole coated electrode. <i>Materials Science and Engineering C</i> , 2008, 28, 855-860.	7.3	16
54	Kinetics of the electron transfer reaction of Cytochrome c 552 adsorbed on biomimetic electrode studied by time-resolved surface-enhanced resonance Raman spectroscopy and electrochemistry. <i>European Biophysics Journal</i> , 2007, 36, 1039-1048.	2.2	15

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55	A friendly detergent for H ₂ oxidation by Aquifex aeolicus membrane-bound hydrogenase immobilized on graphite and Self-Assembled-Monolayer-modified gold electrodes. <i>Electrochimica Acta</i> , 2012, 82, 115-125.	5.2	15
56	Determination of molecular groups involved in the interaction of annexin A5 with lipid membrane models at the air-water interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1204-1211.	2.6	14
57	Lamination and spherulite-like compaction of a hormone's native amyloid-like nanofibrils: spectroscopic insights into key interactions. <i>Faraday Discussions</i> , 2013, 166, 163.	3.2	13
58	A tensegrity driven DNA nanopore. <i>Nanoscale</i> , 2017, 9, 9762-9769.	5.6	13
59	Study of G-Protein Coupled Receptor Signaling in Membrane Environment by Plasmon Waveguide Resonance. <i>Accounts of Chemical Research</i> , 2019, 52, 1059-1067.	15.6	13
60	A Yeast Toxic Mutant of HET-s(218-289) Prion Displays Alternative Intermediates of Amyloidogenesis. <i>Biophysical Journal</i> , 2010, 99, 1239-1246.	0.5	12
61	Orientation of molecular groups of fibers in nonoriented samples determined by polarized ATR-FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3263-3268.	3.7	12
62	Thermodynamic study of the effects of ethanol on the interaction of ochratoxin A with human serum albumin. <i>Journal of Luminescence</i> , 2014, 148, 18-25.	3.1	12
63	Hevea brasiliensis prohevein possesses a conserved C-terminal domain with amyloid-like properties in vitro. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 388-399.	2.3	12
64	Putative interaction site for membrane phospholipids controls activation of TRPA1 channel at physiological membrane potentials. <i>FEBS Journal</i> , 2019, 286, 3664-3683.	4.7	12
65	Tailoring Surface-Enhanced Raman Scattering Effect Using Microfluidics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5327-5332.	3.1	11
66	A yeast toxic mutant of HET-s amyloid disrupts membrane integrity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2325-2334.	2.6	11
67	Microfluidic diffusional sizing probes lipid nanodiscs formation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183215.	2.6	11
68	Assessment of adenyl residue reactivity within model nucleic acids by surface enhanced Raman spectroscopy. <i>Biopolymers</i> , 2006, 82, 6-28.	2.4	10
69	A new method of immobilization of proteins on activated ester terminated alkanethiol monolayers towards the label free impedancemetric detection. <i>Materials Science and Engineering C</i> , 2008, 28, 861-868.	7.3	10
70	Hairpin ribozyme catalysis: A surface-enhanced Raman spectroscopy study. <i>Biopolymers</i> , 2009, 91, 384-390.	2.4	10
71	Interaction of a peptide derived from C-terminus of human TRPA1 channel with model membranes mimicking the inner leaflet of the plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1147-1156.	2.6	9
72	Influence of isomerism on recrystallization and cocrystallization induced by CO ₂ as an antisolvent. <i>CrystEngComm</i> , 2015, 17, 5410-5421.	2.6	9

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73	Effect of amino acid substitution in the staphylococcal peptides warnericin RK and PSM1± on their anti-Legionella and hemolytic activities. <i>Molecular and Cellular Biochemistry</i> , 2015, 405, 159-167.	3.1	9
74	Effect of Mg ²⁺ versus Ca ²⁺ on the behavior of Annexin A5 in a membrane-bound state. <i>European Biophysics Journal</i> , 2011, 40, 641-649.	2.2	8
75	Interfacial activity and emulsifying behaviour of inclusion complexes between helical polysaccharides and flavouring molecules resulting from non-covalent interactions. <i>Food Research International</i> , 2018, 105, 801-811.	6.2	8
76	Total Internal Reflection Tip-Enhanced Raman Spectroscopy of Cytochrome c. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3835-3840.	4.6	8
77	Tip-enhanced Raman spectroscopy of A β (1-42) fibrils. <i>Chemical Physics Letters</i> , 2021, 768, 138400.	2.6	8
78	Structural Dissection of the First Events Following Membrane Binding of the Islet Amyloid Polypeptide. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 849979.	3.5	8
79	Total Internal Reflection Tip-Enhanced Raman Spectroscopy of Tau Fibrils. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5024-5032.	2.6	8
80	Interaction of Tau construct K18 with model lipid membranes. <i>Nanoscale Advances</i> , 2021, 3, 4244-4253.	4.6	7
81	PIP ₂ favors an α -helical structure of non-recombinant Hsp12 of <i>Saccharomyces cerevisiae</i> . <i>Protein Expression and Purification</i> , 2021, 181, 105830.	1.3	6
82	β -Amyloid peptide interactions with biomimetic membranes: A multiparametric characterization. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 769-777.	7.5	6
83	Raman Imaging Reveals Accumulation of Hemoproteins in Plaques from Alzheimer's™s Diseased Tissues. <i>ACS Chemical Neuroscience</i> , 2021, 12, 2940-2945.	3.5	6
84	PIP ₂ Phospholipid-Induced Aggregation of Tau Filaments Probed by Tip-Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 15964-15968.	2.0	5
85	The environment controlled effect of thiocalix[4]arene on the transition thermodynamics and kinetics of bovine serum albumin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010, 66, 147-151.	1.6	3
86	Minimal nanodisc without exogenous lipids for stabilizing membrane proteins in detergent-free buffer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 852-860.	2.6	3
87	Effect of Protonation on the Secondary Structure and Orientation of Plant Light-Harvesting Complex II Studied by PM-IRRAS. <i>Langmuir</i> , 2015, 31, 11583-11590.	3.5	2
88	HbIDI, SIIDI and EcIDI: A comparative study of isopentenyl diphosphate isomerase activity and structure. <i>Biochimie</i> , 2016, 127, 133-143.	2.6	2
89	Single lipoaminoglycoside promotes efficient intracellular antibody delivery: A comprehensive insight into the mechanism of action. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 141-151.	3.3	1
90	Influence of Implants Composition on Melatonin Release from Ethylcellulose Matrix. <i>Current Drug Delivery</i> , 2018, 15, 737-743.	1.6	1

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91	Towards a Nanoscale Description of the Interactions between Amyloid Peptide A β 1-42 and Mutants with Membranes. Biophysical Journal, 2018, 114, 265a.	0.5	0
92	Lipid selectivity in detergent extraction from bilayers. Biochemical and Biophysical Research Communications, 2020, 531, 140-143.	2.1	0
93	Specific Anti-Leukemic Activity of the Peptide Warnericin RK and Analogues and Visualization of Their Effect on Cancer Cells by Chemical Raman Imaging. PLoS ONE, 2016, 11, e0162007.	2.5	0
94	Structure of toxic oligomers from Ab1-42 peptide probed at the nanometer scale by TERS and NanoIR and interaction with membrane (Conference Presentation). , 2018, , .		0