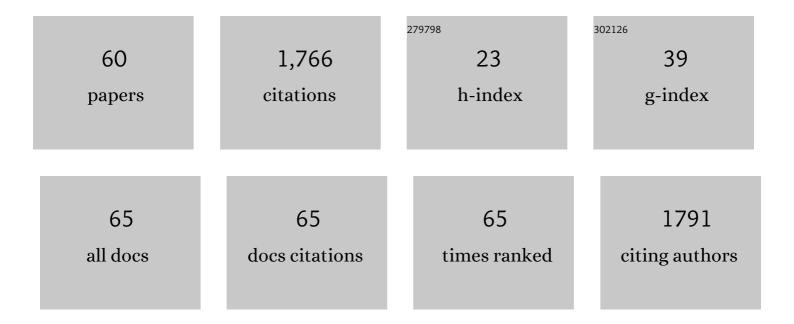
VÃ-ctor A LÃ³renz-FonfrÃ-a

List of Publications by Year in descending order

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Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Protein conformational changes and protonation dynamics probed by a single shot using quantum-cascade-laser-based IR spectroscopy. Journal of Chemical Physics, 2022, 156, . | 3.0 | 12 |
| 2 | A photoswitchable helical peptide with light-controllable interface/transmembrane topology in lipidic membranes. IScience, 2021, 24, 102771. | 4.1 | 3 |
| 3 | Retinal Vibrations in Bacteriorhodopsin are Mechanically Harmonic but Electrically Anharmonic: Evidence From Overtone and Combination Bands. Frontiers in Molecular Biosciences, 2021, 8, 749261. | 3.5 | 3 |
| 4 | Infrared Difference Spectroscopy of Proteins: From Bands to Bonds. Chemical Reviews, 2020, 120, 3466-3576. | 47.7 | 126 |
| 5 | Translocation of Enzymes into a Mesoporous MOF for Enhanced Catalytic Activity Under Extreme Conditions. Chemical Science, 2019, 10, 4082-4088. | 7.4 | 47 |
| 6 | Potential Second-Harmonic Chost Bands in Fourier Transform Infrared (FT-IR) Difference Spectroscopy of Proteins. Applied Spectroscopy, 2018, 72, 956-963. | 2.2 | 6 |
| 7 | Orientation of non-spherical protonated water clusters revealed by infrared absorption dichroism. Nature Communications, 2018, 9, 311. | 12.8 | 22 |
| 8 | Protein dynamics observed by tunable mid-IR quantum cascade lasers across the time range from 10 ns to 1 s. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 666-674. | 3.9 | 33 |
| 9 | Vibrational and Molecular Properties of Mg ²⁺ Binding and Ion Selectivity in the Magnesium Channel MgtE. Journal of Physical Chemistry B, 2018, 122, 9681-9696. | 2.6 | 5 |
| 10 | Photoexcitation of the P ₄ ⁴⁸⁰ State Induces a Secondary Photocycle That Potentially Desensitizes Channelrhodopsin-2. Journal of the American Chemical Society, 2018, 140, 9899-9903. | 13.7 | 22 |
| 11 | pH-sensitive vibrational probe reveals a cytoplasmic protonated cluster in bacteriorhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10909-E10918. | 7.1 | 29 |
| 12 | The Grateful Infrared: Sequential Protein Structural Changes Resolved by Infrared Difference Spectroscopy. Journal of Physical Chemistry B, 2017, 121, 335-350. | 2.6 | 69 |
| 13 | Lysyl oxidaseâ€like 2 (<scp>LOXL</scp> 2) oxidizes trimethylated lysine 4 in histone H3. FEBS Journal, 2016, 283, 4263-4273. | 4.7 | 74 |
| 14 | Transient Conformational Changes of Sensory Rhodopsin II Investigated by Vibrational Stark Effect Probes. Journal of Physical Chemistry B, 2016, 120, 4383-4387. | 2.6 | 15 |
| 15 | Temporal evolution of helix hydration in a light-gated ion channel correlates with ion conductance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5796-804. | 7.1 | 52 |
| 16 | Pre-Gating Conformational Changes in the ChETA Variant of Channelrhodopsin-2 Monitored by Nanosecond IR Spectroscopy. Journal of the American Chemical Society, 2015, 137, 1850-1861. | 13.7 | 38 |
| 17 | Kinetic and Vibrational Isotope Effects of Proton Transfer Reactions in Channelrhodopsin-2. Biophysical Journal, 2015, 109, 287-297. | 0.5 | 28 |
| 18 | The Melibiose Transporter of Escherichia coli. Journal of Biological Chemistry, 2015, 290, 16261-16271. | 3.4 | 14 |

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|----|---|------|-----------|
| 19 | Changes in the hydrogen-bonding strength of internal water molecules and cysteine residues in the conductive state of channelrhodopsin-1. Journal of Chemical Physics, 2014, 141, 22D507. | 3.0 | 39 |
| 20 | Reaction Monitoring Using Midâ€Infrared Laserâ€Based Vibrational Circular Dichroism. Chirality, 2014, 26, 490-496. | 2.6 | 20 |
| 21 | Channelrhodopsin unchained: Structure and mechanism of a light-gated cation channel. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 626-642. | 1.0 | 113 |
| 22 | Gating in channelrhodopsin. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e105. | 1.0 | 0 |
| 23 | pH Titration Monitored by Quantum Cascade Laser-Based Vibrational Circular Dichroism. Journal of Physical Chemistry B, 2014, 118, 3941-3949. | 2.6 | 20 |
| 24 | Resonance Raman and FTIR spectroscopic characterization of the closed and open states of channelrhodopsinâ€1. FEBS Letters, 2014, 588, 2301-2306. | 2.8 | 27 |
| 25 | Proton Transfer and Protein Conformation Dynamics in Photosensitive Proteins by Time-resolved Step-scan Fourier-transform Infrared Spectroscopy. Journal of Visualized Experiments, 2014, , e51622. | 0.3 | 13 |
| 26 | The substitution of Arg149 with Cys fixes the melibiose transporter in an inward-open conformation. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1690-1699. | 2.6 | 11 |
| 27 | Transient protonation changes in channelrhodopsin-2 and their relevance to channel gating. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1273-81. | 7.1 | 150 |
| 28 | Studying Substrate Binding to Reconstituted Secondary Transporters by Attenuated Total Reflection Infrared Difference Spectroscopy. Methods in Molecular Biology, 2012, 914, 107-126. | 0.9 | 8 |
| 29 | Probing a Polar Cluster in the Retinal Binding Pocket of Bacteriorhodopsin by a Chemical Design Approach. PLoS ONE, 2012, 7, e42447. | 2.5 | 3 |
| 30 | Probing Specific Molecular Processes and Intermediates by Time-Resolved Fourier Transform Infrared Spectroscopy: Application to the Bacteriorhodopsin Photocycle. Journal of Physical Chemistry B, 2011, 115, 7972-7985. | 2.6 | 20 |
| 31 | Structural insights into the activation mechanism of melibiose permease by sodium binding. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22078-22083. | 7.1 | 36 |
| 32 | Time-Resolved Photoluminescence Spectra, Lifetime Distributions and Decay-Associated Spectra of Lanthanide's Exchanged Microporous–Mesoporous Materials. Journal of Nanoscience and Nanotechnology, 2010, 10, 2803-2810. | 0.9 | 3 |
| 33 | Protein Fluctuations as the Possible Origin of the Thermal Activation of Rod Photoreceptors in the Dark. Journal of the American Chemical Society, 2010, 132, 5693-5703. | 13.7 | 37 |
| 34 | Polymer–microporous host interactions probed by photoluminescence spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 3031. | 2.8 | 2 |
| 35 | Comparative luminescence study of terbium-exchanged zeolites silylated with alkoxysilanes. Journal of Materials Science: Materials in Electronics, 2009, 20, 312-316. | 2.2 | 3 |
| 36 | In-Plane and Out-of-Plane Infrared Difference Spectroscopy Unravels Tilting of Helices and Structural Changes in a Membrane Protein upon Substrate Binding. Journal of the American Chemical Society, 2009, 131, 15094-15095. | 13.7 | 16 |

| # | Article | IF | CITATIONS |
|----|--|----------------------|-------------------------------|
| 37 | The Role and Selection of the Filter Function in Fourier Self-Deconvolution Revisited. Applied Spectroscopy, 2009, 63, 791-799. | 2.2 | 43 |
| 38 | Spectroscopic and Kinetic Evidence on How Bacteriorhodopsin Accomplishes Vectorial Proton Transport under Functional Conditions. Journal of the American Chemical Society, 2009, 131, 5891-5901. | 13.7 | 58 |
| 39 | FTIR Spectroscopy of Secondary-Structure Reorientation of Melibiose Permease Modulated by Substrate Binding. Biophysical Journal, 2008, 94, 3659-3670. | 0.5 | 25 |
| 40 | Influence of Proline on the Thermostability of the Active Site and Membrane Arrangement of Transmembrane Proteins. Biophysical Journal, 2008, 95, 4384-4395. | 0.5 | 30 |
| 41 | Method for the Estimation of the Mean Lorentzian Bandwidth in Spectra Composed of an Unknown Number of Highly Overlapped Bands. Applied Spectroscopy, 2008, 62, 689-700. | 2.2 | 11 |
| 42 | Active Internal Waters in the Bacteriorhodopsin Photocycle. A Comparative Study of the L and M Intermediates at Room and Cryogenic Temperatures by Infrared Spectroscopy. Biochemistry, 2008, 47, 4071-4081. | 2.5 | 65 |
| 43 | Photoluminescence study of terbium-exchanged ultrastable Y zeolites: Number of species, photoluminescence decays, and decay-associated spectra. Journal of Applied Physics, 2008, 104, 033530. | 2.5 | 8 |
| 44 | Electronic Properties in a Five-Coordinate Azido Complex of Nonplanar Iron(III) Porphyrin: Revisiting to Quantum Mechanical Spin Admixing. Bulletin of the Chemical Society of Japan, 2008, 81, 136-141. | 3.2 | 13 |
| 45 | 2P337 Structural fluctuations affecting the retinal-binding pocket in bovine rhodopsin studied by hydrogen/deuterium exchange of Thr118(Photobiology-vision and photoreception,Poster) Tj ETQq1 1 0.78431 | .4 rg b T1/Ov | erlo <mark>o</mark> k 10 Tf 5 |
| 46 | Practical Aspects of the Maximum Entropy Inversion of the Laplace Transform for the Quantitative Analysis of Multi-Exponential Data. Applied Spectroscopy, 2007, 61, 74-84. | 2.2 | 14 |
| 47 | Bayesian Maximum Entropy (Two-Dimensional) Lifetime Distribution Reconstruction from Time-Resolved Spectroscopic Data. Applied Spectroscopy, 2007, 61, 428-443. | 2.2 | 30 |
| 48 | Inter-helical Hydrogen Bonds Are Essential Elements for Intra-protein Signal Transduction: The Role of Asp115 in Bacteriorhodopsin Transport Function. Journal of Molecular Biology, 2007, 368, 666-676. | 4.2 | 21 |
| 49 | Investigation of the Hydrophobization Efficiency of Terbium-Exchanged BEA Zeolites by Means of FT-IR, TGA, Physical Adsorption, and Time-Resolved Photoluminescence. Langmuir, 2007, 23, 6781-6787. | 3.5 | 16 |
| 50 | Transformation of Time-Resolved Spectra to Lifetime-Resolved Spectra by Maximum Entropy Inversion of the Laplace Transform. Applied Spectroscopy, 2006, 60, 407-417. | 2.2 | 28 |
| 51 | 1P511 Kinetic analysis of bacteriorhodopsin photocycle by transforming time-resolved FTIR spectroscopic data into a 2D-lifetime distribution(25. New methods and tools (I),Poster) Tj ETQq1 1 0.784314 | rgBT0/Dver | loclo10 Tf 50 |
| 52 | Time-resolved rapid-scan Fourier transform infrared difference spectroscopy on a noncyclic photosystem: Rhodopsin photointermediates from Lumi to Meta II. Biopolymers, 2006, 83, 159-169. | 2.4 | 10 |
| 53 | Substrate-Induced Conformational Changes of Melibiose Permease fromEscherichia coliStudied by Infrared Difference Spectroscopyâ€. Biochemistry, 2005, 44, 3506-3514. | 2.5 | 25 |
| 54 | Maximum Entropy Deconvolution of Infrared Spectra: Use of a Novel Entropy Expression without Sign Restriction. Applied Spectroscopy, 2005, 59, 474-486. | 2.2 | 52 |

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| 55 | Curve-fitting of Fourier manipulated spectra comprising apodization, smoothing, derivation and deconvolution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 2703-2710. | 3.9 | 44 |
| 56 | Curve-fitting overlapped bands: quantification and improvement of curve-fitting robustness in the presence of errors in the model and in the data. Analyst, The, 2004, 129, 1243-1250. | 3.5 | 23 |
| 57 | Structural and Functional Implications of the Instability of the ADP/ATP Transporter Purified from Mitochondria as Revealed by FTIR Spectroscopy. Biophysical Journal, 2003, 85, 255-266. | 0.5 | 9 |
| 58 | Study of Amide-proton Exchange of Escherichia coliMelibiose Permease by Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy. Journal of Biological Chemistry, 2002, 277, 3380-3387. | 3.4 | 17 |
| 59 | Fourier Deconvolution in Non-Self-Deconvolving Conditions. Effective Narrowing, Signal-to-Noise Degradation, and Curve Fitting. Applied Spectroscopy, 2002, 56, 232-242. | 2.2 | 21 |
| 60 | The Secondary Structure of the Inhibited Mitochondrial ADP/ATP Transporter from Yeast Analyzed by FTIR Spectroscopy. Biochemistry, 2001, 40, 8821-8833. | 2.5 | 12 |