Michael J Wilhelm

List of Publications by Year
in descending order

43	801	471509 17	552781 26
papers	citations	h-index	g-index

47	47	47	714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ag nanoplatelets as efficient photosensitizers for TiO2 nanorods. Journal of Chemical Physics, 2022, 156, 024703.	3.0	2
2	Indole Facilitates Antimicrobial Uptake in Bacteria. ACS Infectious Diseases, 2022, 8, 1124-1133.	3.8	9
3	Ultrathin Films of Pentacene on Ag(111): Charge-Transfer Bonding and Interadsorbate Interactions. Journal of Physical Chemistry C, 2021, 125, 3385-3395.	3.1	3
4	Influence of Solvent on Dyeâ€Sensitized Solar Cell Efficiency: What is so Special About Acetonitrile?. Particle and Particle Systems Characterization, 2021, 38, 2000220.	2.3	12
5	Determination of bacterial surface charge density via saturation of adsorbed ions. Biophysical Journal, 2021, 120, 2461-2470.	0.5	44
6	Control of Chemical Reactions through Coherent Excitation of Eigenlevels: A Demonstration via Vibronic Coupling in SO2. Journal of Physical Chemistry A, 2021, 125, 9065-9070.	2.5	2
7	Moleculeâ€Membrane Interactions in Biological Cells Studied with Second Harmonic Light Scattering. Chemistry - an Asian Journal, 2020, 15, 200-213.	3.3	14
8	Collisional Energy Transfer from Vibrationally Excited Hydrogen Isocyanide. Journal of Physical Chemistry A, 2019, 123, 6927-6936.	2.5	4
9	Influence of molecular structure on passive membrane transport: A case study by second harmonic light scattering. Journal of Chemical Physics, 2019, 150, 104705.	3.0	26
10	Spatially Resolved Membrane Transport in a Single Cell Imaged by Second Harmonic Light Scattering. Biochemistry, 2019, 58, 1841-1844.	2.5	27
11	Carboxylic Anchoring Dye p-Ethyl Red Does Not Adsorb Directly onto TiO₂ Particles in Protic Solvents. Journal of Physical Chemistry C, 2019, 123, 8265-8272.	3.1	11
12	Azithromycin-Induced Changes to Bacterial Membrane Properties Monitored in Vitro by Second-Harmonic Light Scattering. ACS Medicinal Chemistry Letters, 2018, 9, 569-574.	2.8	37
13	UV Photolysis of Pyrazine and the Production of Hydrogen Isocyanide. Journal of Physical Chemistry A, 2018, 122, 9001-9013.	2.5	6
14	Real-Time Characterization of an Antimicrobial Mechanism-of-Action with Nonlinear Optical Scattering. Biophysical Journal, 2017, 112, 382a.	0.5	0
15	In Vivo Nonlinear Light Scattering Probe of Drug-Induced Activation of Bacterial Mechanosensitive Channels. Biophysical Journal, 2017, 112, 580a.	0.5	0
16	Towards quantification of myelin by solid-state MRI of the lipid matrix protons. NeuroImage, 2017, 163, 358-367.	4.2	40
17	Is Photolytic Production a Viable Source of HCN and HNC in Astrophysical Environments? A Laboratory-based Feasibility Study of Methyl Cyanoformate. Astrophysical Journal, 2017, 849, 15.	4.5	18
18	Cell Membrane Integrity Examined by Nonlinear Light Scattering. Biophysical Journal, 2016, 110, 160a.	0.5	1

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19	Label-Free Optical Method for Quantifying Molecular Transport Across Cellular Membranes In Vitro. Journal of Physical Chemistry Letters, 2016, 7, 3406-3411.	4.6	34
20	Large cross section for super energy transfer from hyperthermal atoms to ambient molecules. Physical Review A, 2016, 93, .	2.5	14
21	Note: Reconstructing interferograms improves spectral SNR. Journal of Chemical Physics, 2016, 145, 036101.	3.0	6
22	Nonlinear Light Scattering as a Generally Applicable Approach for Studying Molecular Transport across Biological Membranes. Biophysical Journal, 2016, 110, 160a.	0.5	0
23	Enhanced Membrane Permeability in E. coli Induced by Extracellular Adenosine Triphosphate. Biophysical Journal, 2015, 108, 402a.	0.5	0
24	Spectral reconstruction analysis for enhancing signal-to-noise in time-resolved spectroscopies. Journal of Chemical Physics, 2015, 143, 124204.	3.0	9
25	Adsorption and transport of charged vs. neutral hydrophobic molecules at the membrane of murine erythroleukemia (MEL) cells. Colloids and Surfaces B: Biointerfaces, 2015, 127, 122-129.	5.0	39
26	Chemically Induced Changes to Membrane Permeability in Living Cells Probed with Nonlinear Light Scattering. Biochemistry, 2015, 54, 4427-4430.	2.5	33
27	Gramâ€™s Stain Does Not Cross the Bacterial Cytoplasmic Membrane. ACS Chemical Biology, 2015, 10, 1711-1717.	3.4	51
28	Living E. coli is Permeable to Propidium Iodide: A Study by Time-Resolved Second-Harmonic Scattering and Fluorescence Microscopy. Biophysical Journal, 2015, 108, 148a-149a.	0.5	2
29	Chemical Activation through Super Energy Transfer Collisions. Journal of the American Chemical Society, 2014, 136, 1682-1685.	13.7	28
30	Real-time molecular uptake and membrane-specific transport in living cells by optical microscopy and nonlinear light scattering. Chemical Physics Letters, 2014, 605-606, 158-163.	2.6	30
31	Real-Time Observation of Molecular Transport across Biological Membranes with Non-Linear Optical Spectroscopy and Fluorescence Microscopy. Biophysical Journal, 2013, 104, 23a.	0.5	1
32	The lowest quartet-state of the ketenyl (HCCO) radical: Collision-induced intersystem crossing and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></r vibrational mode. Chemical Physics, 2013, 422, 290-296.	1.9	20
33	Collisional Energy Transfer from Highly Vibrationally Excited Radicals Is Very Efficient. Journal of Physical Chemistry Letters, 2013, 4, 23-29.	4.6	13
34	Direct magnetic resonance detection of myelin and prospects for quantitative imaging of myelin density. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9605-9610.	7.1	149
35	Photolysis (193 nm) of SO₂: Nascent Product Energy Distribution Examined through IR Emission. Journal of Physical Chemistry A, 2012, 116, 166-173.	2.5	14
36	Strong combination-band IR emission from highly vibrationally excited acetylene. Physical Chemistry Chemical Physics, 2010, 12, 2915.	2.8	14

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37	Photodissociation of vinyl cyanide at 193 nm: Nascent product distributions of the molecular elimination channels. Journal of Chemical Physics, 2009, 130, 044307.	3.0	33
38	Vibrational Modes of the Vinyl and Deuterated Vinyl Radicals. Journal of Physical Chemistry A, 2009, 113, 8857-8870.	2.5	23
39	Signal-to-noise enhancement in time-resolved IR emission spectra through two-dimensional correlation analysis. Journal of Molecular Structure, 2008, 883-884, 242-248.	3.6	5
40	The Î½1 CH stretching mode of the ketenyl (HCCO) radical. Journal of Chemical Physics, 2008, 128, 064313.	3.0	19
41	Imaging Molecular Transport Through the Membrane of a Living Cell. SSRN Electronic Journal, 0, , .	0.4	1
42	Quantitative Modeling of Electron Dynamics and the Effect of Diffusion in Photosensitized Semiconductor Nanocomposites. Accounts of Chemical Research, 0, , .	15.6	1
43	Nonlinear Light Scattering from Buried Interfaces: Fundamentals and Applications. ACS Symposium Series, 0, , 173-198.	0.5	0