

# MichaÅ, Maj

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

863  
citations

516710

16  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1314  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Instantaneous ion configurations in the K <sup>+</sup> ion channel selectivity filter revealed by 2D IR spectroscopy. <i>Science</i> , 2016, 353, 1040-1044.   | 12.6 | 174       |
| 2  | The primary structural photoresponse of phytochrome proteins captured by a femtosecond X-ray laser. <i>ELife</i> , 2020, 9, .  | 6.0  | 78        |
| 3  | Resonance-assisted hydrogen bonds revisited. Resonance stabilization vs. charge delocalization. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2514.   | 2.8  | 71        |
| 4  | Two-Dimensional Spectroscopy Is Being Used to Address Core Scientific Questions in Biology and Materials Science. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1771-1780.   | 2.6  | 65        |
| 5  | Spectroscopic Signature for Stable $\beta^2$ -Amyloid Fibrils versus $\beta^2$ -Sheet-Rich Oligomers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 144-153.   | 2.6  | 53        |
| 6  | Ultrafast structural changes within a photosynthetic reaction centre. <i>Nature</i> , 2021, 589, 310-314.  | 27.8 | 47        |
| 7  | Isonitrile as an Ultrasensitive Infrared Reporter of Hydrogen-Bonding Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10167-10180.   | 2.6  | 37        |
| 8  | $\beta^2$ -Isocyanoalanine as an IR probe: comparison of vibrational dynamics between isonitrile and nitrile-derivatized IR probes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11770-11778.                  | 2.8  | 36        |
| 9  | Modulation of the Hydrogen Bonding Structure of Water by Renal Osmolytes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2773-2779.   | 4.6  | 34        |
| 10 | Site-specific detection of protein secondary structure using 2D IR dihedral indexing: a proposed assembly mechanism of oligomeric hIAPP. <i>Chemical Science</i> , 2018, 9, 463-474.                                     | 7.4  | 32        |
| 11 | High-resolution crystal structures of transient intermediates in the phytochrome photocycle. <i>Structure</i> , 2021, 29, 743-754.e4.  | 3.3  | 31        |
| 12 | Probing the Effects of Gating on the Ion Occupancy of the K <sup>+</sup> Channel Selectivity Filter Using Two-Dimensional Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 8837-8845. | 13.7 | 30        |
| 13 | Site-Specific Characterization of Cytochrome P450cam Conformations by Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 6598-6606.  | 6.5  | 23        |
| 14 | Structural Polymorphs Suggest Competing Pathways for the Formation of Amyloid Fibrils That Diverge from a Common Intermediate Species. <i>Biochemistry</i> , 2018, 57, 6470-6478.  | 2.5  | 23        |
| 15 | Distributed Multipolar Expansion Approach to Calculation of Excitation Energy Transfer Couplings. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3259-3266.   | 5.3  | 21        |
| 16 | Transient IR spectroscopy identifies key interactions and unravels new intermediates in the photocycle of a bacterial phytochrome. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9195-9203.                     | 2.8  | 19        |
| 17 | Infrared Pump-Probe Study of Nanoconfined Water Structure in Reverse Micelle. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3404-3407.   | 4.6  | 17        |
| 18 | Vibrational dynamics of thiocyanate and selenocyanate bound to horse heart myoglobin. <i>Journal of Chemical Physics</i> , 2014, 140, 235104.  | 3.0  | 15        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Ultrafast Structural Fluctuations of Myoglobinâ€Bound Thiocyanate and Selenocyanate Ions Measured with Twoâ€Dimensional Infrared Photon Echo Spectroscopy. <i>ChemPhysChem</i> , 2015, 16, 3468-3476.       | 2.1 | 15        |
| 20 | Induced Optical Activity of DNA-Templated Cyanine Dye Aggregates: Exciton Coupling Theory and TD-DFT Studies. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5909-5918.                                | 2.5 | 13        |
| 21 | Metastable intermediate during hIAPP aggregation catalyzed by membranes as detected with 2D IR spectroscopy. <i>RSC Chemical Biology</i> , 2022, 3, 931-940.  | 4.1 | 11        |
| 22 | Ultrafast Chemical Exchange Dynamics of Hydrogen Bonds Observed via Isonitrile Infrared Sensors: Implications for Biomolecular Studies. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7878-7883. | 4.6 | 7         |
| 23 | Giving voice to the weak: Application of active noise reduction in transient infrared spectroscopy. <i>Chemical Physics Letters</i> , 2021, 783, 139059.  | 2.6 | 6         |
| 24 | Effects of Angiotensin-Converting Enzyme Inhibition on Circulating Endothelial Progenitor Cells in Patients with Acute Ischemic Stroke. <i>Stem Cells International</i> , 2018, 2018, 1-10.                 | 2.5 | 5         |