

Time-Resolved Vibrational Spectroscopy

Virtual Special Issue

Photochemical Kinetics of a Phosphine Oxide Free Radical Initiator from Femtosecond UV-Pump/Mid-IR-Probe Spectroscopy	Steffen Straub, Jörg Lindner, Peter Vöhringer	10.1021/acs.jPCA.7b04268
Dynamic Raman Line Shapes on an Evolving Excited-State Landscape: Insights from Tunable Femtosecond Stimulated Raman Spectroscopy	Breland G. Oscar, Cheng Chen, Weimin Liu, Liangdong Zhu, Chong Fang	10.1021/acs.jPCA.7b04404
2D-IR Spectroscopy of an AHA Labeled Photoswitchable PDZ2 Domain	Brigitte Stucki-Buchli, Philip J. M. Johnson, Olga Bozovic, Claudio Zanobini, Klemens L. Koziol, Peter Hamm, Adnan Gulzar, Steffen Wolf, Sebastian Buchenberg, Gerhard Stock	10.1021/acs.jPCA.7b09675
Rotational Dynamics of Solutes with Multiple Single Bond Axes Studied by Infrared Pump–Probe Spectroscopy	Masaki Okuda, Kaoru Ohta, Keisuke Tominaga	10.1021/acs.jPCA.7b09939
Role of Aromatic Cross-Links in Structure and Dynamics of Model Three-Stranded β -Sheet Peptides	David Scheerer, Heng Chi, Dan McElheny, Ayesha Samer, Timothy A. Keiderling, Karin Hauser	10.1021/acs.jPCA.7b10190
Time-Resolved Infrared Spectroscopy on Plant Cryptochrom—Relevance of Proton Transfer and ATP Binding for Signaling	Lea Schroeder, Sabine Oldemeyer, Tilman Kottke	10.1021/acs.jPCA.7b10249
Tailoring Photoisomerization Pathways in Donor–Acceptor Stenhouse Adducts: The Role of the Hydroxy Group	Michael M. Lerch, Miroslav Medved', Andrea Lapini, Adèle D. Laurent, Alessandro Iagatti, Laura Bussotti, Wiktor Szymański, Wybren Jan Buma, Paolo Foggi, Mariangela Di Donato, Ben L. Feringa	10.1021/acs.jPCA.7b10255
A 100 kHz Pulse Shaping 2D-IR Spectrometer Based on Dual Yb:KGW Amplifiers	P.M. Donaldson, G.M. Greetham, D.J. Shaw, A.W. Parker, M. Towrie	10.1021/acs.jPCA.7b10259
Evidence of Molecular Heterogeneities in Amide-Based Deep Eutectic Solvents	Yaowen Cui, Daniel G. Kuroda	10.1021/acs.jPCA.7b10264
Ultrafast Transmission Modulation and Recovery via Vibrational Strong Coupling	Adam D. Dunkelberger, Roderick B. Davidson II, Wonmi Ahn, Blake S. Simpkins, Jeffrey C. Owrutsky	10.1021/acs.jPCA.7b10299
Fourier Transform Fluorescence-Encoded Infrared Spectroscopy	Joseph N. Mastron, Andrei Tokmakoff	10.1021/acs.jPCA.7b10305
Simple Quantum Dynamics with Thermalization	Thomas L. C. Jansen	10.1021/acs.jPCA.7b10380
Vibrational Spectroscopy on Photoexcited Dye-Sensitized Films via Pump–Degenerate Four-Wave Mixing	Baxter Abraham, Hao Fan, Elena Galoppini, Lars Gundlach	10.1021/acs.jPCA.7b10652

Control of Geminate Recombination by the Material Composition and Processing Conditions in Novel Polymer: Nonfullerene Acceptor Photovoltaic Devices	Jiangbin Zhang, Qinying Gu, Thu Trang Do, Kira Rundel, Prashant Sonar, Richard H. Friend, Christopher R. McNeill, Artem A. Bakulin	10.1021/acs.jpca.7b11891
Heterogeneous Amyloid β -Sheet Polymorphs Identified on Hydrogen Bond Promoting Surfaces Using 2D SFG Spectroscopy	Jia-Jung Ho, Ayanjeet Ghosh, Tianqi O. Zhang, Martin T. Zanni	10.1021/acs.jpca.7b11934
Excited-State Dynamics of Thioflavin T: Planar Stable Intermediate Revealed by Nuclear Wave Packet Spectroscopies	JunWoo Kim, Dong Eon Kim, Taiha Joo	10.1021/acs.jpca.7b11951
Influence of Solvent Swelling on Ultrafast Structural Dynamics in Polydimethylsiloxane Thin Films by Two-Dimensional IR Spectroscopy	Courtney M. Olson, Aaron M. Massari	10.1021/acs.jpca.7b12128
Time-Resolved Sum Frequency Generation Spectroscopy: A Quantitative Comparison Between Intensity and Phase-Resolved Spectroscopy	Ellen H. G. Backus, Jenée D. Cyran, Maksim Grechko, Yuki Nagata, Mischa Bonn	10.1021/acs.jpca.7b12303
Structural Evolution of a Retinal Chromophore in the Photocycle of Halorhodopsin from <i>Natronobacterium pharaonis</i>	Misao Mizuno, Ayumi Nakajima, Hideki Kandori, Yasuhisa Mizutani	10.1021/acs.jpca.7b12332
Exploring Nuclear Photorelaxation of Pyranine in Aqueous Solution: an Integrated Ab-Initio Molecular Dynamics and Time Resolved Vibrational Analysis Approach	Maria Gabriella Chiariello, Nadia Rega	10.1021/acs.jpca.7b12371
Interpreting Quasi-Thermal Effects in Ultrafast Spectroscopy of Hydrogen-Bonded Systems	Ashley M. Stingel, Poul B. Petersen	10.1021/acs.jpca.7b12372
Excited-State Dynamics of a DNA Duplex in a Deep Eutectic Solvent Probed by Femtosecond Time-Resolved IR Spectroscopy	Kimberly de La Harpe, Forrest R. Kohl, Yuyuan Zhang, Bern Kohler	10.1021/acs.jpca.7b12677
Hydrophobic Collapse in <i>N</i> -Methylacetamide–Water Mixtures	Evgeniia Salamatova, Ana V. Cunha, Robbert Bloem, Steven J. Roeters, Sander Woutersen, Thomas L. C. Jansen, Maxim S. Pshenichnikov	10.1021/acs.jpca.8b00276
Conformational Ensembles of Calmodulin Revealed by Nonperturbing Site-Specific Vibrational Probe Groups	Kristen L. Kelly, Shannon R. Dalton, Rebecca B. Wai, Kanika Ramchandani, Rosalind J. Xu, Sara Linse, Casey H. Lonergan	10.1021/acs.jpca.8b00475