

Aaron M Massari

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,277
citations

361413

20
h-index

377865

34
g-index

55
all docs

55
docs citations

55
times ranked

1224
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Influence of Aqueous versus Glassy Solvents on Protein Dynamics: A Vibrational Echo Experiments and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2005, 127, 14279-14289. | 13.7 | 96 |
| 2 | Substrate binding and protein conformational dynamics measured by 2D-IR vibrational echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2637-2642. | 7.1 | 85 |
| 3 | Synthesis, Characterization, and Preliminary Intramolecular Energy Transfer Studies of Rigid, Emissive, Rhenium-Linked Porphyrin Dimers. <i>Inorganic Chemistry</i> , 2002, 41, 619-621. | 4.0 | 76 |
| 4 | Neuroglobin dynamics observed with ultrafast 2D-IR vibrational echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16116-16121. | 7.1 | 71 |
| 5 | A Porous Multilayer Dye-Based Photoelectrochemical Cell That Unexpectedly Runs in Reverse. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4111-4115. | 2.6 | 66 |
| 6 | Dynamics of Proteins Encapsulated in Silica Sol-Gel Glasses Studied with IR Vibrational Echo Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 3990-3997. | 13.7 | 65 |
| 7 | Ultrafast Dynamics of Myoglobin without the Distal Histidine: Stimulated Vibrational Echo Experiments and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16959-16966. | 2.6 | 56 |
| 8 | Interfacial Ring Orientation in Polythiophene Field-Effect Transistors on Functionalized Dielectrics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16027-16036. | 3.1 | 49 |
| 9 | Viscosity-Dependent Protein Dynamics. <i>Biophysical Journal</i> , 2007, 92, 3652-3662. | 0.5 | 47 |
| 10 | Monitoring the Charge Accumulation Process in Polymeric Field-Effect Transistors via in Situ Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17629-17637. | 3.1 | 43 |
| 11 | Organic Photovoltaics Interdigitated on the Molecular Scale. <i>Journal of the Electrochemical Society</i> , 2006, 153, A527. | 2.9 | 37 |
| 12 | Walljet Electrochemistry: Quantifying Molecular Transport through Metallopolymeric and Zirconium Phosphonate Assembled Porphyrin Square Thin Films. <i>Langmuir</i> , 2004, 20, 4422-4429. | 3.5 | 35 |
| 13 | Simulated vibrational sum frequency generation from a multilayer thin film system with two active interfaces. <i>Journal of Chemical Physics</i> , 2013, 138, 154708. | 3.0 | 35 |
| 14 | Modeling multilayer thin film interference effects in interface-specific coherent nonlinear optical spectroscopies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 1503. | 2.1 | 34 |
| 15 | Imaging Size-Selective Permeation through Micropatterned Thin Films Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2000, 72, 3122-3128. | 6.5 | 32 |
| 16 | Ultrathin micropatterned porphyrin films assembled via zirconium phosphonate chemistry. <i>Polyhedron</i> , 2003, 22, 3065-3072. | 2.2 | 32 |
| 17 | Solvation Dynamics of Vaska's Complex by 2D-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24813-24822. | 3.1 | 31 |
| 18 | Surface Chemistry and Annealing-Driven Interfacial Changes in Organic Semiconducting Thin Films on Silica Surfaces. <i>Langmuir</i> , 2011, 27, 13940-13949. | 3.5 | 24 |

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|----|---|-----|-----------|
| 19 | Nonlinear Spectroscopic Markers of Structural Change during Charge Accumulation in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20258-20266. | 3.1 | 22 |
| 20 | Experimental evidence for an optical interference model for vibrational sum frequency generation on multilayer organic thin film systems. II. Consideration for higher order terms. <i>Journal of Chemical Physics</i> , 2015, 142, 024704. | 3.0 | 22 |
| 21 | Solvent-Mediated Vibrational Energy Relaxation from Vaska's Complex Adducts in Binary Solvent Mixtures. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6150-6157. | 2.5 | 21 |
| 22 | Origins of Spectral Broadening in Iodated Vaska's Complex in Binary Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15741-15749. | 2.6 | 20 |
| 23 | 2D-IR Spectroscopy of Porous Silica Nanoparticles: Measuring the Distance Sensitivity of Spectral Diffusion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25135-25144. | 3.1 | 20 |
| 24 | Vibrational Solvatochromism in Vaska's Complex Adducts. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9279-9286. | 2.5 | 19 |
| 25 | Cytochrome c552 Mutants: Structure and Dynamics at the Active Site Probed by Multidimensional NMR and Vibration Echo Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18803-18810. | 2.6 | 18 |
| 26 | Experimental evidence for an optical interference model for vibrational sum frequency generation on multilayer organic thin film systems. I. Electric dipole approximation. <i>Journal of Chemical Physics</i> , 2015, 142, 024703. | 3.0 | 18 |
| 27 | Characterizing Solvent Dynamics in Nanoscopic Silica Sol-Gel Glass Pores by 2D-IR Spectroscopy of an Intrinsic Vibrational Probe. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25567-25578. | 3.1 | 16 |
| 28 | Vibrational Sum Frequency Generation Spectroscopy of Fullerene at Dielectric Interfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1666-1672. | 3.1 | 16 |
| 29 | Correlating solvent dynamics and chemical reaction rates using binary solvent mixtures and two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 212441. | 3.0 | 15 |
| 30 | Optical Interference Enhances Nonlinear Spectroscopic Sensitivity: When Light Gives You Lemons, Model Lemonade. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 62-68. | 4.6 | 15 |
| 31 | Ground-State Structural Dynamics in Doped and Undoped Polyaniline Films Probed by Two-Dimensional Infrared Vibrational Echo Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4583-4591. | 2.6 | 13 |
| 32 | Real-time structural evolution at the interface of an organic transistor during thermal annealing. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3390-3400. | 5.5 | 13 |
| 33 | Quantifying the Soda Geyser. <i>Journal of Chemical Education</i> , 2014, 91, 428-431. | 2.3 | 12 |
| 34 | Simple fully reflective method of scatter reduction in 2D-IR spectroscopy. <i>Optics Letters</i> , 2015, 40, 1850. | 3.3 | 11 |
| 35 | Enhanced vibrational solvatochromism and spectral diffusion by electron rich substituents on small molecule silanes. <i>Journal of Chemical Physics</i> , 2017, 147, 124302. | 3.0 | 10 |
| 36 | 2D-IR Studies of Annealing-Induced Changes to Structural Dynamics in Organic Semiconductor Thin Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12308-12315. | 3.1 | 9 |

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|----|---|-----|-----------|
| 37 | Frequency comb SFG: a new approach to multiplex detection. <i>Optics Express</i> , 2016, 24, 19863. | 3.4 | 9 |
| 38 | Polarization-multiplexed vibrational sum frequency generation for comprehensive simultaneous characterization of interfaces. <i>Optics Letters</i> , 2012, 37, 1754. | 3.3 | 8 |
| 39 | Infrared Spectroscopic Signatures of Phase Segregation in P3HT~Porphyrin Blends. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14549-14554. | 2.6 | 7 |
| 40 | Evolution of Ultrafast Vibrational Dynamics During Sol~Gel Aging. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2933-2939. | 3.1 | 7 |
| 41 | Static and Dynamic Structural Memory in Polyaniline Thin Films. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8686-8695. | 2.6 | 6 |
| 42 | Thin Films and Bulk Phases Conucleate at the Interfaces of Pentacene Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16803-16809. | 3.1 | 6 |
| 43 | Simplified sum frequency generation using a narrow free-spectral-range etalon. <i>Optics Letters</i> , 2018, 43, 4747. | 3.3 | 5 |
| 44 | Vibrational heavy atom effect controls relaxation and spectral diffusion in triphenyl hydride complexes. <i>Chemical Physics</i> , 2018, 512, 98-103. | 1.9 | 4 |
| 45 | Spectroscopic Study of Sol~Gel Entrapped Triruthenium Dodecacarbonyl Catalyst Reveals Hydride Formation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7394-7399. | 4.6 | 4 |
| 46 | Observation of Proton Transfer between Bridging Ligands on a Catalyst by 2D-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24877-24884. | 3.1 | 3 |
| 47 | Measuring Dopant-Modulated Vibrational Energy Transfer over the Surface of Silicon Nanoparticles by 2D-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8693-8698. | 3.1 | 3 |
| 48 | Influence of Solvent Swelling on Ultrafast Structural Dynamics in Polydimethylsiloxane Thin Films by Two-Dimensional IR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1592-1599. | 2.5 | 3 |
| 49 | Sum frequency generation as a proxy for ellipsometry: Not just a phase. <i>Journal of Chemical Physics</i> , 2022, 156, 110901. | 3.0 | 3 |
| 50 | Ultrafast Dynamics Experienced by Carbon Dioxide Diffusing through Polymer Matrices. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8997-9004. | 2.6 | 2 |
| 51 | The role of ultrafast structural dynamics with physical and chemical changes in polydimethylsiloxane thin films by two-dimensional IR spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 174902. | 3.0 | 1 |
| 52 | Ruthenium hydrides encapsulated in sol~gel glasses exhibit new ultrafast vibrational dynamics. <i>Journal of Chemical Physics</i> , 2022, 156, 124502. | 3.0 | 1 |