

Aaron M Massari

List of Publications by Year in descending order

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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	Ruthenium hydrides encapsulated in sol-gel glasses exhibit new ultrafast vibrational dynamics. <i>Journal of Chemical Physics</i> , 2022, 156, 124502.	3.0	1
2	Sum frequency generation as a proxy for ellipsometry: Not just a phase. <i>Journal of Chemical Physics</i> , 2022, 156, 110901.	3.0	3
3	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
4	Ultrafast Dynamics Experienced by Carbon Dioxide Diffusing through Polymer Matrices. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8997-9004.	2.6	2
5	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
6	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
7	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
8	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
9	Vibrational heavy atom effect controls relaxation and spectral diffusion in triphenyl hydride complexes. <i>Chemical Physics</i> , 2018, 512, 98-103.	1.9	4
10	Simplified sum frequency generation using a narrow free-spectral-range etalon. <i>Optics Letters</i> , 2018, 43, 4747.	3.3	5
11	Evolution of Ultrafast Vibrational Dynamics During Sol-Gel Aging. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2933-2939.	3.1	7
12	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
13	Frequency comb SFG: a new approach to multiplex detection. <i>Optics Express</i> , 2016, 24, 19863.	3.4	9
14	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
15	Vibrational Sum Frequency Generation Spectroscopy of Fullerene at Dielectric Interfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1666-1672.	3.1	16
16	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
17	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
18	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

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19	Simple fully reflective method of scatter reduction in 2D-IR spectroscopy. <i>Optics Letters</i> , 2015, 40, 1850.	3.3	11
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	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
22	Quantifying the Soda Geyser. <i>Journal of Chemical Education</i> , 2014, 91, 428-431.	2.3	12
23	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
24	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
25	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
26	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
27	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
28	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
29	Polarization-multiplexed vibrational sum frequency generation for comprehensive simultaneous characterization of interfaces. <i>Optics Letters</i> , 2012, 37, 1754.	3.3	8
30	Vibrational Solvatochromism in Vaska's Complex Adducts. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9279-9286.	2.5	19
31	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
32	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
33	Static and Dynamic Structural Memory in Polyaniline Thin Films. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8686-8695.	2.6	6
34	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
35	Solvation Dynamics of Vaska's Complex by 2D-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24813-24822.	3.1	31
36	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

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37	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
38	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
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	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
41	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
42	Viscosity-Dependent Protein Dynamics. <i>Biophysical Journal</i> , 2007, 92, 3652-3662.	0.5	47
43	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
44	Organic Photovoltaics Interdigitated on the Molecular Scale. <i>Journal of the Electrochemical Society</i> , 2006, 153, A527.	2.9	37
45	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
46	The Influence of Aqueous versus Glassy Solvents on Protein Dynamics:~ Vibrational Echo Experiments and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2005, 127, 14279-14289.	13.7	96
47	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
48	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
49	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
50	Ultrathin micropatterned porphyrin films assembled via zirconium phosphonate chemistry. <i>Polyhedron</i> , 2003, 22, 3065-3072.	2.2	32
51	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
52	Imaging Size-Selective Permeation through Micropatterned Thin Films Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2000, 72, 3122-3128.	6.5	32