

Andrea G Markelz

List of Publications by Year in descending order

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53
papers

3,182
citations

279487

23
h-index

344852

36
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54
all docs

54
docs citations

54
times ranked

3568
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 043001.	1.3	1,160
2	THz time domain spectroscopy of biomolecular conformational modes. <i>Physics in Medicine and Biology</i> , 2002, 47, 3797-3805.	1.6	255
3	Terahertz Response and Colossal Kerr Rotation from the Surface States of the Topological Insulator Bi_2Se_3 . <i>Physical Review Letters</i> , 2012, 108, 087403.	2.9	201
4	Optical measurements of long-range protein vibrations. <i>Nature Communications</i> , 2014, 5, 3076.	5.8	166
5	Terahertz Dielectric Sensitivity to Biomolecular Structure and Function. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 180-190.	1.9	152
6	Terahertz Spectroscopic Analysis of Peptides and Proteins. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 973-988.	1.2	144
7	Protein Flexibility and Conformational State: A Comparison of Collective Vibrational Modes of Wild-Type and D96N Bacteriorhodopsin. <i>Biophysical Journal</i> , 2003, 85, 1269-1277.	0.2	133
8	Protein Dynamical Transition Does Not Require Protein Structure. <i>Physical Review Letters</i> , 2008, 101, 178103.	2.9	117
9	Hydration Dependence of Conformational Dielectric Relaxation of Lysozyme. <i>Biophysical Journal</i> , 2006, 90, 2576-2581.	0.2	113
10	Protein dynamical transition in terahertz dielectric response. <i>Chemical Physics Letters</i> , 2007, 442, 413-417.	1.2	83
11	Protein and RNA dynamical fingerprinting. <i>Nature Communications</i> , 2019, 10, 1026.	5.8	72
12	Terahertz Spectroscopy of Bacteriorhodopsin and Rhodopsin: Similarities and Differences. <i>Biophysical Journal</i> , 2008, 94, 3217-3226.	0.2	69
13	Large oxidation dependence observed in terahertz dielectric response for cytochrome c. <i>Physical Review E</i> , 2005, 72, 040901.	0.8	59
14	Terahertz dielectric assay of solution phase protein binding. <i>Applied Physics Letters</i> , 2007, 90, 243901.	1.5	56
15	Evidence of Protein Collective Motions on the Picosecond Timescale. <i>Biophysical Journal</i> , 2011, 100, 1058-1065.	0.2	56
16	Moving in the Right Direction: Protein Vibrations Steering Function. <i>Biophysical Journal</i> , 2017, 112, 933-942.	0.2	50
17	Perspective on Terahertz Applications in Bioscience and Biotechnology. <i>ACS Photonics</i> , 2022, 9, 1117-1126.	3.2	48
18	Hydration and temperature interdependence of protein picosecond dynamics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6375.	1.3	35

#	ARTICLE	IF	CITATIONS
19	Terahertz Measurements of Protein Relaxational Dynamics. Proceedings of the IEEE, 2007, 95, 1605-1610.	16.4	33
20	Terahertz optical measurements of correlated motions with possible allosteric function. Biophysical Reviews, 2015, 7, 201-216.	1.5	28
21	Terahertz response of quantum point contacts. Applied Physics Letters, 2008, 92, 223115.	1.5	27
22	Terahertz magneto-optical polarization modulation spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1406.	0.9	27
23	Improved Mode Assignment for Molecular Crystals Through Anisotropic Terahertz Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 10359-10364.	1.1	26
24	Photoactive Yellow Protein Terahertz Response: Hydration, Heating and Intermediate States. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 288-294.	2.0	14
25	Near-Field Stationary Sample Terahertz Spectroscopic Polarimetry for Biomolecular Structural Dynamics Determination. ACS Photonics, 2021, 8, 658-668.	3.2	12
26	Persistent Protein Motions in a Rugged Energy Landscape Revealed by Normal Mode Ensemble Analysis. Journal of Chemical Information and Modeling, 2020, 60, 6419-6426.	2.5	8
27	Terahertz Applications to Biomolecular Sensing. International Journal of High Speed Electronics and Systems, 2003, 13, 951-967.	0.3	7
28	Modulated orientation-sensitive terahertz spectroscopy. Photonics Research, 2016, 4, A1.	3.4	5
29	Hydration Effects on Energy Relaxation of Ferric Cytochrome C Films after Soret-Band Photoexcitation. Journal of Physical Chemistry B, 2010, 114, 15151-15157.	1.2	4
30	Linear dichroism infrared resonance in overdoped, underdoped, and optimally doped cuprate superconductors. Physical Review B, 2020, 102, .	1.1	4
31	Near-field THz micropolarimetry. Optics Express, 2019, 27, 28036.	1.7	4
32	Measurements and calculations of protein intramolecular vibrations in the THz range. , 2014, , .		3
33	Functional-State Dependence of Picosecond Protein Dynamics. Journal of Physical Chemistry B, 2021, 125, 11134-11140.	1.2	3
34	Photo-Switching of Protein Dynamical Collectivity. Photonics, 2021, 8, 302.	0.9	2
35	Protein Conformational Dynamics Measured With Terahertz Time Domain Spectroscopy. , 2006, , .		1
36	Ultrafast Carriers Dynamics in GaSb/Mn Random Alloys. AIP Conference Proceedings, 2007, , .	0.3	1

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37	Terahertz Dielectric Response Sensitivity to Protein Oxidation State. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
38	Anisotropy and birefringence in molecular crystals. , 2011, , .		1
39	Phonon Kinetics of Fructose at the Melting Transition. Journal of Physical Chemistry C, 2021, 125, 12269-12276.	1.5	1
40	Tunable compact narrow band THz sources for frequency domain THz anisotropic spectroscopy. , 2019, 10983, .		1
41	Terahertz measurements of the Photoactive Protein Bacteriorhodopsin mutant D96N: M and P states. Materials Research Society Symposia Proceedings, 2004, 826, 261.	0.1	0
42	Origin of Terahertz Sensitivity to Heme Oxidation State. , 2008, , .		0
43	The role of structure in the protein dynamical transition. , 2008, , .		0
44	Terahertz dielectric response of proteins: Relaxational and correlated motion contributions. , 2009, , .		0
45	Large area self assembled tunable terahertz detector. , 2011, , .		0
46	Magneto optical polarization measurements using THz polarization modulation spectroscopy. , 2011, , .		0
47	Anisotropic absorption measurements reveal protein dynamical transition in intramolecular vibrations. , 2016, , .		0
48	THz Anisotropy Identification using Tunable Compact Narrow Band THz Sources. , 2018, 2018, .		0
49	Stationary Sample Anisotropic THz Spectroscopy Using Discretely Tunable THz Sources. , 2019, 2019, .		0
50	Saturation of the Hydration Dependence of the Terahertz Dielectric Response of Ferri Cytochrome C. , 2007, , .		0
51	MEMS Cell for Dynamical Orientation of Bio Molecules in Solution. , 2012, , .		0
52	THz Transmission through Submillimeter Apertures. , 2020, , .		0
53	Stabilization of Terahertz Vibrational Modes in Illuminated Orange Carotenoid Protein Crystals. , 2020, , .		0