

# Andrea G Markelz

## List of Publications by Year in descending order

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53  
papers

3,182  
citations

279701

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345118

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g-index

54  
all docs

54  
docs citations

54  
times ranked

3568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspective on Terahertz Applications in Bioscience and Biotechnology. ACS Photonics, 2022, 9, 1117-1126.	3.2	48
2	Near-Field Stationary Sample Terahertz Spectroscopic Polarimetry for Biomolecular Structural Dynamics Determination. ACS Photonics, 2021, 8, 658-668.	3.2	12
3	Phonon Kinetics of Fructose at the Melting Transition. Journal of Physical Chemistry C, 2021, 125, 12269-12276.	1.5	1
4	Photo-Switching of Protein Dynamical Collectivity. Photonics, 2021, 8, 302.	0.9	2
5	Functional-State Dependence of Picosecond Protein Dynamics. Journal of Physical Chemistry B, 2021, 125, 11134-11140.	1.2	3
6	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
7	Linear dichroism infrared resonance in overdoped, underdoped, and optimally doped cuprate superconductors. Physical Review B, 2020, 102, .	1.1	4
8	THz Transmission through Submillimeter Apertures. , 2020, , .		0
9	Stabilization of Terahertz Vibrational Modes in Illuminated Orange Carotenoid Protein Crystals. , 2020, , .		0
10	Protein and RNA dynamical fingerprinting. Nature Communications, 2019, 10, 1026.	5.8	72
11	Stationary Sample Anisotropic THz Spectroscopy Using Discretely Tunable THz Sources. , 2019, 2019, .		0
12	Tunable compact narrow band THz sources for frequency domain THz anisotropic spectroscopy. , 2019, 10983, .		1
13	Near-field THz micropolarimetry. Optics Express, 2019, 27, 28036.	1.7	4
14	THz Anisotropy Identification using Tunable Compact Narrow Band THz Sources. , 2018, 2018, .		0
15	Moving in the Right Direction: Protein Vibrations Steering Function. Biophysical Journal, 2017, 112, 933-942.	0.2	50
16	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	1.3	1,160
17	Anisotropic absorption measurements reveal protein dynamical transition in intramolecular vibrations. , 2016, , .		0
18	Modulated orientation-sensitive terahertz spectroscopy. Photonics Research, 2016, 4, A1.	3.4	5

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19	Terahertz optical measurements of correlated motions with possible allosteric function. Biophysical Reviews, 2015, 7, 201-216.	1.5	28
20	Measurements and calculations of protein intramolecular vibrations in the THz range. , 2014, , .		3
21	Optical measurements of long-range protein vibrations. Nature Communications, 2014, 5, 3076.	5.8	166
22	Photoactive Yellow Protein Terahertz Response: Hydration, Heating and Intermediate States. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 288-294.	2.0	14
23	Terahertz magneto-optical polarization modulation spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1406.	0.9	27
24	Improved Mode Assignment for Molecular Crystals Through Anisotropic Terahertz Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 10359-10364.	1.1	26
25	Terahertz Spectroscopic Analysis of Peptides and Proteins. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 973-988.	1.2	144
26	Hydration and temperature interdependence of protein picosecond dynamics. Physical Chemistry Chemical Physics, 2012, 14, 6375.	1.3	35
27	Terahertz Response and Colossal Kerr Rotation from the Surface States of the Topological Insulator $\text{Bi}_2\text{Se}_3$ . Physical Review Letters, 2012, 108, 087403.		201
28	MEMS Cell for Dynamical Orientation of Bio Molecules in Solution. , 2012, , .		0
29	Evidence of Protein Collective Motions on the Picosecond Timescale. Biophysical Journal, 2011, 100, 1058-1065.	0.2	56
30	Anisotropy and birefringence in molecular crystals. , 2011, , .		1
31	Large area self assembled tunable terahertz detector. , 2011, , .		0
32	Magneto optical polarization measurements using THz polarization modulation spectroscopy. , 2011, , .		0
33	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
34	Terahertz dielectric response of proteins: Relaxational and correlated motion contributions. , 2009, , .		0
35	Terahertz Dielectric Sensitivity to Biomolecular Structure and Function. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 180-190.	1.9	152
36	Terahertz Spectroscopy of Bacteriorhodopsin and Rhodopsin: Similarities and Differences. Biophysical Journal, 2008, 94, 3217-3226.	0.2	69

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37	Terahertz response of quantum point contacts. Applied Physics Letters, 2008, 92, 223115.	1.5	27
38	Origin of Terahertz Sensitivity to Heme Oxidation State. , 2008, , .		0
39	The role of structure in the protein dynamical transition. , 2008, , .		0
40	Protein Dynamical Transition Does Not Require Protein Structure. Physical Review Letters, 2008, 101, 178103.	2.9	117
41	Terahertz dielectric assay of solution phase protein binding. Applied Physics Letters, 2007, 90, 243901.	1.5	56
42	Ultrafast Carriers Dynamics in GaSb/Mn Random Alloys. AIP Conference Proceedings, 2007, , .	0.3	1
43	Terahertz Measurements of Protein Relaxational Dynamics. Proceedings of the IEEE, 2007, 95, 1605-1610.	16.4	33
44	Terahertz Dielectric Response Sensitivity to Protein Oxidation State. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
45	Protein dynamical transition in terahertz dielectric response. Chemical Physics Letters, 2007, 442, 413-417.	1.2	83
46	Saturation of the Hydration Dependence of the Terahertz Dielectric Response of Ferri Cytochrome C. , 2007, , .		0
47	Hydration Dependence of Conformational Dielectric Relaxation of Lysozyme. Biophysical Journal, 2006, 90, 2576-2581.	0.2	113
48	Protein Conformational Dynamics Measured With Terahertz Time Domain Spectroscopy. , 2006, , .		1
49	Large oxidation dependence observed in terahertz dielectric response for cytochrome c. Physical Review E, 2005, 72, 040901.	0.8	59
50	Terahertz measurements of the Photoactive Protein Bacteriorhodopsin mutant D96N: M and P states. Materials Research Society Symposia Proceedings, 2004, 826, 261.	0.1	0
51	Protein Flexibility and Conformational State: A Comparison of Collective Vibrational Modes of Wild-Type and D96N Bacteriorhodopsin. Biophysical Journal, 2003, 85, 1269-1277.	0.2	133
52	Terahertz Applications to Biomolecular Sensing. International Journal of High Speed Electronics and Systems, 2003, 13, 951-967.	0.3	7
53	THz time domain spectroscopy of biomolecular conformational modes. Physics in Medicine and Biology, 2002, 47, 3797-3805.	1.6	255