

Sharly Fleischer

List of Publications by Year in descending order

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27
papers

1,121
citations

687363

13
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Orientation and Alignment by Intense Single-Cycle THz Pulses. <i>Physical Review Letters</i> , 2011, 107, 163603.	7.8	261
2	A review of non-linear terahertz spectroscopy with ultrashort tabletop-laser pulses. <i>Journal of Modern Optics</i> , 2015, 62, 1447-1479.	1.3	119
3	Controlling the sense of molecular rotation. <i>New Journal of Physics</i> , 2009, 11, 105039.	2.9	106
4	Molecular Alignment Induced by Ultrashort Laser Pulses and Its Impact on Molecular Motion. <i>Israel Journal of Chemistry</i> , 2012, 52, 414-437.	2.3	104
5	Strong coupling of collective intermolecular vibrations in organic materials at terahertz frequencies. <i>Nature Communications</i> , 2019, 10, 3248.	12.8	85
6	Nonlinear two-dimensional terahertz photon echo and rotational spectroscopy in the gas phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11800-11805.	7.1	81
7	Generation of spatiotemporally tailored terahertz wavepackets by nonlinear metasurfaces. <i>Nature Communications</i> , 2019, 10, 1778.	12.8	76
8	Commensurate Two-Quantum Coherences Induced by Time-Delayed THz Fields. <i>Physical Review Letters</i> , 2012, 109, 123603.	7.8	69
9	Rotational Control of Asymmetric Molecules: Dipole- versus Polarizability-Driven Rotational Dynamics. <i>Physical Review Letters</i> , 2016, 117, 103001.	7.8	48
10	Echo Spectroscopy in Multilevel Quantum-Mechanical Rotors. <i>Physical Review Letters</i> , 2018, 121, 234101.	7.8	31
11	Rotational Echoes: Rephasing of Centrifugal Distortion in Laser-Induced Molecular Alignment. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5128-5135.	4.6	29
12	Coherent Radiative Decay of Molecular Rotations: A Comparative Study of Terahertz-Oriented versus Optically Aligned Molecular Ensembles. <i>Physical Review Letters</i> , 2017, 119, 033002.	7.8	27
13	Orientation dynamics of asymmetric rotors using random phase wave functions. <i>Physical Review A</i> , 2015, 91, .	2.5	14
14	Strong Coupling in a Self-Coupled Terahertz Photonic Crystal. <i>ACS Photonics</i> , 2021, 8, 1881-1888.	6.6	12
15	The effects of sample conductivity on the efficacy of dynamic nuclear polarization for sensitivity enhancement in solid state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 99, 7-14.	2.3	11
16	A novel experimental method for the local mechanical testing of human coronal dentin. <i>Dental Materials</i> , 2010, 26, 179-184.	3.5	10
17	Spinning molecules selectively: laser control of isotopes and nuclear spin isomers. <i>Journal of Modern Optics</i> , 2007, 54, 2641-2658.	1.3	6
18	Contact-free conductivity probing of metal nanowire films using THz reflection spectroscopy. <i>Nanotechnology</i> , 2019, 30, 215702.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Intrinsic calibration of laser-induced molecular alignment using rotational echoes. Physical Review Research, 2020, 2, .	3.6	5
20	Iris-assisted terahertz field-induced second-harmonic generation in air. Optics Letters, 2019, 44, 5190.	3.3	5
21	Molecular Orientation-Induced Second-Harmonic Generation: Deciphering Different Contributions Apart. Journal of Physical Chemistry A, 2022, 126, 3732-3738.	2.5	5
22	<i>Operando</i> Terahertz Spectroscopy of Solid Electrolyte Interphase Evolution on Silicon Anodes. Batteries and Supercaps, 2022, 5, .	4.7	4
23	Low-Power Laser Ignition of an Antenna-Type Secondary Energetic Copper Complex: Synthesis, Characterization, Evaluation, and Ignition Mechanism Studies. Inorganic Chemistry, 2021, 60, 10909-10922.	4.0	3
24	Enhanced spatial resolution of terahertz spectroscopy via semiconductor photoexcitation. OSA Continuum, 2020, 3, 3365.	1.8	3
25	Differential chopping controller with high-resolution and accuracy using digital signal processor. Review of Scientific Instruments, 2019, 90, 076106.	1.3	1
26	Strong Coupling in a Self-Coupled Terahertz Photonic Crystal. , 2021, , .		0
27	Intrinsic Calibration of Molecular Alignment Using Rotational Echoes. , 2021, , .		0