

# L Michael Hayden

## List of Publications by Year in descending order

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47  
papers

1,990  
citations

471509

17  
h-index

330143

37  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maker fringes revisited: second-harmonic generation from birefringent or absorbing materials. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 416.	2.1	384
2	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. Journal of Applied Physics, 2011, 109, 043505-043505-5.	2.5	342
3	Second-order nonlinear optical measurements in guest-host and side-chain polymers. Journal of Applied Physics, 1990, 68, 456-465.	2.5	144
4	Carrier Dynamics Resulting from Above and Below Gap Excitation of P3HT and P3HT/PCBM Investigated by Optical-Pump Terahertz-Probe Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 7928-7935.	3.1	129
5	Charge Trapping and Exciton Dynamics in Large-Area CVD Grown MoS <sub>2</sub> . Journal of Physical Chemistry C, 2016, 120, 5819-5826.	3.1	111
6	Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. Applied Physics Letters, 2008, 92, .	3.3	102
7	Resonance enhanced THz generation in electro-optic polymers near the absorption maximum. Applied Physics Letters, 2004, 85, 5827-5829.	3.3	80
8	Organic Broadband TeraHertz Sources and Sensors. Journal of Nanoelectronics and Optoelectronics, 2007, 2, 58-76.	0.5	76
9	Optical properties of DAST in the THz range. Optics Express, 2010, 18, 23620.	3.4	73
10	Terahertz scattering from granular material. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2238.	2.1	68
11	Fully atomistic modeling of an electric field poled guest-host nonlinear optical polymer. Journal of Chemical Physics, 1999, 111, 5212-5222.	3.0	64
12	Generation and detection of terahertz radiation with multilayered electro-optic polymer films. Optics Letters, 2002, 27, 55.	3.3	60
13	Efficient Electrooptic Polymers for THz Applications. Journal of Physical Chemistry B, 2004, 108, 8515-8522.	2.6	53
14	New materials for optical rectification and electrooptic sampling of ultrashort pulses in the terahertz regime. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2492-2500.	2.1	41
15	Broadband and gap-free response of a terahertz system based on a poled polymer emitter-sensor pair. Applied Physics Letters, 2005, 87, 081115.	3.3	36
16	Charge Carrier Dynamics in Metalated Polymers Investigated by Optical-Pump Terahertz-Probe Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 15427-15432.	2.6	27
17	Positive and Negative Photoconductivity in Monolayer MoS <sub>2</sub> as a Function of Physisorbed Oxygen. Journal of Physical Chemistry C, 2021, 125, 8712-8718.	3.1	19
18	Synthesis and Nonlinear Optical Properties of a New Syndioregic Main-Chain Hydrazone Polymer. Macromolecules, 2001, 34, 1493-1495.	4.8	17

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19	Effect of sub-T <sub>g</sub> relaxations on chromophore reorientation in corona-poled polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1013-1024.	2.1	15
20	Ultrafast carrier dynamics and optical properties of nanoporous silicon at terahertz frequencies. <i>Optical Materials Express</i> , 2014, 4, 300.	3.0	15
21	Activation volume associated with the relaxation of the second order nonlinear optical susceptibility in a guest-host polymer. <i>Applied Physics Letters</i> , 1993, 63, 2059-2061.	3.3	14
22	Quasipermanent photochemical gratings in a dual use photorefractive polymer composite. <i>Applied Physics Letters</i> , 1999, 74, 2749-2751.	3.3	13
23	Effect of pressure and temperature on chromophore reorientation in a new syndioregic main-chain hydrazone nonlinear optical polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 895-900.	2.1	13
24	Design of ultra-broadband terahertz polymer waveguide emitters for telecom wavelengths using coupled mode theory. <i>Optics Express</i> , 2013, 21, 5842.	3.4	12
25	Ultrafast Carrier Dynamics of Monolayer WS <sub>2</sub> via Broad-Band Time-Resolved Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30676-30683.	3.1	12
26	Temperature dependence of the activation volume in a nonlinear optical polymer: Evidence for chromophore reorientation induced by sub-T <sub>g</sub> relaxations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 901-911.	2.1	11
27	Modeling a broadband terahertz system based on an electro-optic polymer emitter-sensor pair. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1338.	2.1	10
28	Activation volumes associated with chromophore reorientation in corona poled guest-host and side-chain polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 2391-2404.	2.1	8
29	Effect of pressure and temperature on chromophore reorientation in a side-chain nonlinear optical polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 2793-2803.	2.1	8
30	Pressure Dependence of the Depoling Temperature in Nonlinear Optical Polymers. <i>Macromolecules</i> , 1997, 30, 2734-2737.	4.8	7
31	Dual-use chromophores for photorefractive and irreversible photochromic applications. <i>Applied Optics</i> , 2001, 40, 2895.	2.1	7
32	Comparison of parallel-plate and in-plane poled polymer films for terahertz sensing. <i>Applied Optics</i> , 2007, 46, 6283.	2.1	5
33	Organic Nonlinear Optical (NLO) Polymers. A Study of in-Situ Poling and Quaternization/Crosslinking of Polymers by a NLO-Tweezer. <i>Macromolecules</i> , 1995, 28, 8129-8135.	4.8	4
34	Effect of Pressure during Poling on the Relaxation of a Guest-Host NLO Polymer. <i>Macromolecules</i> , 2000, 33, 5747-5750.	4.8	3
35	Simplified model for optical rectification of broadband terahertz pulses in lossy waveguides including a new generalized expression for the coherence length. <i>Optics Express</i> , 2013, 21, 24398.	3.4	2
36	Atomistic Molecular Modeling of Electric Field Poling of Nonlinear Optical Polymers. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2006, , 337-357.	0.6	2

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37	Carrier Dynamics in Monolayer WS <sub>2</sub> via Time-Resolved Terahertz Spectroscopy. , 2018, , .		2
38	Determination of the Second Harmonic Coefficients of Birefringent Poled Polymers. ACS Symposium Series, 1995, , 275-287.	0.5	1
39	Electro-optic polymers for THz applications. , 2004, 5593, 545.		0
40	Optical-pump-THz-probe studies of carrier dynamics in Hg-based high-temperature superconducting thin films. , 2007, , .		0
41	Terahertz science and applications based on poled electro-optic polymers. , 2007, , .		0
42	Optical-Pump-THz-Probe Studies of Carrier Dynamics in Hg-Based High-Temperature Superconducting Thin Films. , 2007, , .		0
43	Optical-pump THz-probe spectroscopy of P3HT. , 2009, , .		0
44	Efficient, wideband THz emission from thin electro-optic polymer films. , 2004, , .		0
45	Generation and Detection of Gap - Free Broadband Terahertz Radiation Using Poled Polymer Films. , 2005, , .		0
46	Terahertz Science and Applications Based on Electro-optic Polymer Films. , 2005, , .		0
47	Charge Transfer Dynamics in Donor- $\pi$ -Bridge-Acceptor Side-Chain Polymers for Solar Cells. , 2010, , .		0