L Michael Hayden

List of Publications by Year
in descending order

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	Positive and Negative Photoconductivity in Monolayer MoS₂ as a Function of Physisorbed Oxygen. Journal of Physical Chemistry C, 2021, 125, 8712-8718.	3.1	19
2	Ultrafast Carrier Dynamics of Monolayer WS₂ via Broad-Band Time-Resolved Terahertz Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 30676-30683.	3.1	12
3	Carrier Dynamics in Monolayer WS2 via Time-Resolved Terahertz Spectroscopy. , 2018, , .		2
4	Charge Trapping and Exciton Dynamics in Large-Area CVD Grown MoS₂. Journal of Physical Chemistry C, 2016, 120, 5819-5826.	3.1	111
5	Ultrafast carrier dynamics and optical properties of nanoporous silicon at terahertz frequencies. Optical Materials Express, 2014, 4, 300.	3.0	15
6	Design of ultra-broadband terahertz polymer waveguide emitters for telecom wavelengths using coupled mode theory. Optics Express, 2013, 21, 5842.	3.4	12
7	Simplified model for optical rectification of broadband terahertz pulses in lossy waveguides including a new generalized expression for the coherence length. Optics Express, 2013, 21, 24398.	3.4	2
8	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
9	Optical properties of DAST in the THz range. Optics Express, 2010, 18, 23620.	3.4	73
10	Charge Transfer Dynamics in Donor-Ї€-Bridge-Acceptor Side-Chain Polymers for Solar Cells. , 2010, , .		0
11	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
12	Optical-pump THz-probe spectroscopy of P3HT. , 2009, , .		0
13	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
14	Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. Applied Physics Letters, 2008, 92, .	3.3	102
15	Optical-pump-THz-probe studies of carrier dynamics in Hg-based high-temperature superconducting thin films. , 2007, , .		0
16	Terahertz science and applications based on poled electro-optic polymers. , 2007, , .		0
17	Terahertz scattering from granular material. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2238.	2.1	68
18	Comparison of parallel-plate and in-plane poled polymer films for terahertz sensing. Applied Optics, 2007, 46, 6283.	2.1	5

#	Article	IF	Citations
19	Optical-Pump-THz-Probe Studies of Carrier Dynamics in Hg-Based High-Temperature Superconducting Thin Films. , 2007, , .		0
20	Organic Broadband TeraHertz Sources and Sensors. Journal of Nanoelectronics and Optoelectronics, 2007, 2, 58-76.	0.5	76
21	Modeling a broadband terahertz system based on an electro-optic polymer emitter-sensor pair. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1338.	2.1	10
22	Atomistic Molecular Modeling of Electric Field Poling of Nonlinear Optical Polymers. Challenges and Advances in Computational Chemistry and Physics, 2006, , 337-357.	0.6	2
23	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
24	Generation and Detection of Gap - Free Broadband Terahertz Radiation Using Poled Polymer Films. , 2005, , .		0
25	Terahertz Science and Applications Based on Electro-optic Polymer Films. , 2005, , .		0
26	Electro-optic polymers for THz applications. , 2004, 5593, 545.		0
27	Resonance enhanced THz generation in electro-optic polymers near the absorption maximum. Applied Physics Letters, 2004, 85, 5827-5829.	3.3	80
28	Efficient Electrooptic Polymers for THz Applicationsâ€. Journal of Physical Chemistry B, 2004, 108, 8515-8522.	2.6	53
29	Efficient, wideband THz emission from thin electro-optic polymer films. , 2004, , .		0
30	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
31	Generation and detection of terahertz radiation with multilayered electro-optic polymer films. Optics Letters, 2002, 27, 55.	3.3	60
32	Synthesis and Nonlinear Optical Properties of a New Syndioregic Main-Chain Hydrazone Polymer. Macromolecules, 2001, 34, 1493-1495.	4.8	17
33	Dual-use chromophores for photorefractive and irreversible photochromic applications. Applied Optics, 2001, 40, 2895.	2.1	7
34	Effect of pressure and temperature on chromophore reorientation in a new syndioregic main-chain hydrazone nonlinear optical polymer. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 895-900.	2.1	13
35	Effect of Pressure during Poling on the Relaxation of a Guestâ^'Host NLO Polymer. Macromolecules, 2000, 33, 5747-5750.	4.8	3
36	Quasipermanent photochemical gratings in a dual use photorefractive polymer composite. Applied Physics Letters, 1999, 74, 2749-2751.	3.3	13

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37	Fully atomistic modeling of an electric field poled guest-host nonlinear optical polymer. Journal of Chemical Physics, 1999, 111, 5212-5222.	3.0	64
38	Temperature dependence of the activation volume in a nonlinear optical polymer: Evidence for chromophore reorientation induced by sub-Tg relaxations. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 901-911.	2.1	11
39	Effect of sub-Tg relaxations on chromophore reorientation in corona-poled polymers. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 1013-1024.	2.1	15
40	Effect of pressure and temperature on chromophore reorientation in a side-chain nonlinear optical polymer. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2793-2803.	2.1	8
41	Pressure Dependence of the Depoling Temperature in Nonlinear Optical Polymers. Macromolecules, 1997, 30, 2734-2737.	4.8	7
42	Determination of the Second Harmonic Coefficients of Birefringent Poled Polymers. ACS Symposium Series, 1995, , 275-287.	0.5	1
43	Activation volumes associated with chromophore reorientation in corona poled guestâ€“host and side-chain polymers. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 2391-2404.	2.1	8
44	Organic Nonlinear Optical (NLO) Polymers. A Study of in-Situ Poling and Quaternization/Crosslinking of Polymers by a NLO-Tweezer. Macromolecules, 1995, 28, 8129-8135.	4.8	4
45	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
46	Activation volume associated with the relaxation of the second order nonlinear optical susceptibility in a guestâ€host polymer. Applied Physics Letters, 1993, 63, 2059-2061.	3.3	14
47	Secondâ€order nonlinear optical measurements in guestâ€host and sideâ€chain polymers. Journal of Applied Physics, 1990, 68, 456-465.	2.5	144