Daniel M Mittleman

List of Publications by Year in Descending Order

218 papers	12,368 citations	54 h-index	108 g-index
369 ext. papers	15,329 ext. citations	5 avg, IF	6.84 L-index

#	Paper	IF	Citations
218	Reflection, Scattering, and Transmission (Including Material Parameters). *Springer Series in Optical Sciences*, **2022**, 65-73	0.5	
217	A review of terahertz phase modulation from free space to guided wave integrated devices. *Nanophotonics*, **2022**, 11, 415-437	6.3	5
216	Recent advances in terahertz imaging: 1999 to 2021. *Applied Physics B: Lasers and Optics*, **2022**, 128, 1	1.9	8
215	Measurements with Modulated Signals. *Springer Series in Optical Sciences*, **2022**, 23-28	0.5	
214	Introduction to THz Communications. *Springer Series in Optical Sciences*, **2022**, 1-12	0.5	0
213	Brown University Test Bed. *Springer Series in Optical Sciences*, **2022**, 491-493	0.5	
212	Broadband wide-angle terahertz antenna based on the application of transformation optics to a Luneburg lens. *Scientific Reports*, **2021**, 11, 5230	4.9	8
211	Line-of-sight and non-line-of-sight links for dispersive terahertz wireless networks. *APL Photonics*, **2021**, 6, 041304	5.2	3
210	High-volume rapid prototyping technique for terahertz metallic metasurfaces. *Optics Express*, **2021**, 29, 13806-13814	3.3	7
209	Anomalous contrast in broadband THz near-field imaging of gold microstructures. *Optics Express*, **2021**, 29, 15190-15198	3.3	2
208	Physical-layer Security Using Atmosphere-limited Line-of-sight Terahertz Links **2021**,		1
207	Enhancing terahertz radiation from femtosecond laser filaments using local gas density modulation. *Physical Review A*, **2021**, 104,	2.6	1
206	High-precision digital terahertz phase manipulation within a multichannel field perturbation coding chip. *Nature Photonics*, **2021**, 15, 751-757	33.9	13
205	Structural tuning of nonlinear terahertz metamaterials using broadside coupled split ring resonators. *AIP Advances*, **2021**, 11, 095103	1.5	2
204	Single-shot link discovery for terahertz wireless networks. *Nature Communications*, **2020**, 11, 2017	17.4	37
203	Direct Probe of Room-Temperature Quantum-Tunneling Processes in Type-II Heterostructures Using Terahertz Emission Spectroscopy. *Physical Review Applied*, **2020**, 13,	4.3	1
202	A wire waveguide channel for terabit-per-second links. *Applied Physics Letters*, **2020**, 116, 131102	3.4	7

201	Assignment of Terahertz Modes in Hydroquinone Clathrates. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2020**, 41, 1355-1365	2.2	3
200	Secure Communication Channels Using Atmosphere-limited Line-of-sight Terahertz Links **2020**,		1
199	Experimental measurement of the wake field in a plasma filament created by a single-color ultrafast laser pulse. *Physical Review E*, **2020**, 102, 063211	2.4	3
198	LeakyTrack **2020**,		3
197	Laser THz emission nanoscopy and THz nanoscopy. *Optics Express*, **2020**, 28, 18778-18789	3.3	11
196	Real-time object tracking using a leaky THz waveguide. *Optics Express*, **2020**, 28, 17997-18005	3.3	13
195	Analysis of ancient ceramics using terahertz imaging and photogrammetry. *Optics Express*, **2020**, 28, 22255-22263	3.3	9
194	Single-shot link discovery in terahertz wireless networks **2020**,		2
193	Broadband amplitude, frequency, and polarization splitter for terahertz frequencies using parallel-plate waveguide technology. *Optics Letters*, **2020**, 45, 1208-1211	3	3
192	Single shot single antenna path discovery in THz networks **2020**,		7
191	Security in terahertz WLANs with Leaky wave antennas **2020**,		4
190	Monitoring fungus infestation of common beech wood using terahertz radiation. *Holzforschung*, **2020**, 74, 635-641	2	0
189	Efficient leaky-wave antennas at terahertz frequencies generating highly directional beams. *Applied Physics Letters*, **2020**, 117, 261103	3.4	8
188	Scattering of Terahertz Waves by Snow. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2020**, 41, 215-224	2.2	10
187	Terahertz Vibrational Motions Mediate Gas Uptake in Organic Clathrates. *Crystal Growth and Design* , **2020**, 20, 5638-5643	3.5	4
186	Terahertz smart dynamic and active functional electromagnetic metasurfaces and their applications. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20190609	3	2
185	A metal wire waveguide for terabit DSL **2019**,		1
184	Terahertz Wireless Links Using Diffuse Scattering From Rough Surfaces. *IEEE Transactions on Terahertz Science and Technology*, **2019**, 9, 463-470	3.4	19

183	Generation of spatiotemporally tailored terahertz wavepackets by nonlinear metasurfaces. *Nature Communications*, **2019**, 10, 1778	17.4	38
182	Terahertz Dual-Polarization Beam Splitter Via an Anisotropic Matrix Metasurface. *IEEE Transactions on Terahertz Science and Technology*, **2019**, 9, 491-497	3.4	17
181	Propagation studies for indoor and outdoor terahertz wireless links **2019**,		2
180	Pressure- and Temperature-dependent Terahertz Time-Domain Spectroscopy of Hydroquinone and Its Clathrates **2019**,		1
179	Characteristics of resonance-induced optical vortices and spatial reshaping. *Optics Letters*, **2019**, 44, 5800-5803		9
178	A Luneburg Lens for the Terahertz Region. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2019**, 40, 1129-1136	2.2	11
177	Invited Article: Channel performance for indoor and outdoor terahertz wireless links. *APL Photonics* , **2018**, 3, 051601	5.2	63
176	The Effect of Snow on a Terahertz Wireless Data Link. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2018**, 39, 505-508	2.2	16
175	Artificial dielectric stepped-refractive-index lens for the terahertz region. *Optics Express*, **2018**, 26, 3702-3708	3.3	6
174	Twenty years of terahertz imaging [Invited]. *Optics Express*, **2018**, 26, 9417-9431	3.3	291
173	Extraordinary optical reflection resonances and bound states in the continuum from a periodic array of thin metal plates. *Optics Express*, **2018**, 26, 13195-13204	3.3	18
172	Uncovering the Connection Between Low-Frequency Dynamics and Phase Transformation Phenomena in Molecular Solids. *Physical Review Letters*, **2018**, 120, 196002	7.4	25
171	Magneto □THz spectroscopy in spinel superconductors LiTi2O4 thin films **2018**,		1
170	Characterizing optical resonances using spatial mode reshaping. *Optica*, **2018**, 5, 1414	8.6	3
169	Imaging on the Nanoscale with THz Time-Domain, Emission and Pump-Probe Microscopy **2018**,		1
168	Probing the Mechanochemistry of Metal□Organic Frameworks with Low-Frequency Vibrational Spectroscopy. *Journal of Physical Chemistry C*, **2018**, 122, 27442-27450	3.8	25
167	Terahertz integrated electronic and hybrid electronic□photonic systems. *Nature Electronics*, **2018**, 1, 622-635	28.4	224
166	Electrically reconfigurable terahertz signal processing devices using liquid metal components. *Nature Communications*, **2018**, 9, 4202	17.4	22

165	Security and eavesdropping in terahertz wireless links. *Nature*, **2018**, 563, 89-93	50.4	134
164	Frequency-division multiplexer and demultiplexer for terahertz wireless links. *Nature Communications*, **2017**, 8, 729	17.4	55
163	Nanoscale Laser Terahertz Emission Microscopy. *ACS Photonics*, **2017**, 4, 2676-2680	6.3	52
162	Nonlinear terahertz metamaterials with active electrical control. *Applied Physics Letters*, **2017**, 111, 121101	3.4	24
161	Artificial dielectric polarizing-beamsplitter and isolator for the terahertz region. *Scientific Reports*, **2017**, 7, 5909	4.9	18
160	Communications with THz Waves: Switching Data Between Two Waveguides. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2017**, 38, 1316-1320	2.2	15
159	Characterization of an active metasurface using terahertz ellipsometry. *Applied Physics Letters*, **2017**, 111, 191101	3.4	7
158	Perspective: Terahertz science and technology. *Journal of Applied Physics*, **2017**, 122, 230901	2.5	159
157	Demultiplexing of terahertz wireless links using a leaky-wave antenna **2017**,		1
156	High-pressure cell for terahertz time-domain spectroscopy. *Optics Express*, **2017**, 25, 2983-2993	3.3	9
155	A Broadband Terahertz Waveguide T-Junction Variable Power Splitter. *Scientific Reports*, **2016**, 6, 28925	4.9	29
154	Terahertz Artificial Dielectric Lens. *Scientific Reports*, **2016**, 6, 23023	4.9	28
153	Extraordinary optical transmission inside a waveguide: spatial mode dependence. *Optics Express*, **2016**, 24, 28221-28227	3.3	7
152	Waveguide T-junction as a broadband terahertz variable power splitter **2016**,		5
151	Parallel plate waveguide time domain spectroscopy to study terahertz conductivity of utltrathin materials **2016**,		1
150	Terahertz disorder-localized rotational modes and lattice vibrational modes in the orientationally-disordered and ordered phases of camphor. *Physical Chemistry Chemical Physics*, **2015**, 17, 6734-40	3.6	13
149	Frequency-division multiplexing in the terahertz range using a leaky-wave antenna. *Nature Photonics*, **2015**, 9, 717-720	33.9	105
148	Focused terahertz waves generated by a phase velocity gradient in a parallel-plate waveguide. *Optics Express*, **2015**, 23, 27947-52	3.3	15

147	Parallel-Plate Waveguide Terahertz Time Domain Spectroscopy for Ultrathin Conductive Films. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2015**, 36, 1182-1194	2.2	6
146	Terahertz vibrational modes of the rigid crystal phase of succinonitrile. *Journal of Physical Chemistry A*, **2014**, 118, 2442-6	2.8	18
145	Terahertz Conductivity and Hindered Molecular Reorientation of Lithium Salt Doped Succinonitrile in its Plastic Crystal Phase. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2014**, 35, 770-779	2.2	4
144	An electrically driven terahertz metamaterial diffractive modulator with more than 20 dB of dynamic range. *Applied Physics Letters*, **2014**, 104, 091115	3.4	57
143	High-contrast terahertz wave modulation by gated graphene enhanced by extraordinary transmission through ring apertures. *Nano Letters*, **2014**, 14, 1242-8	11.5	170
142	High-Q terahertz Fano resonance with extraordinary transmission in concentric ring apertures. *Optics Express*, **2014**, 22, 3747-53	3.3	13
141	Artificial Dielectrics: Ordinary Metallic Waveguides Mimic Extraordinary Dielectric Media. *IEEE Microwave Magazine*, **2014**, 15, 34-42	1.2	6
140	In situ spectroscopic characterization of a terahertz resonant cavity. *Optica*, **2014**, 1, 272	8.6	7
139	The isotropic molecular polarizabilities of single methyl-branched alkanes in the terahertz range. *Chemical Physics Letters*, **2014**, 592, 292-296	2.5	12
138	Measuring TE1 mode Losses in Terahertz Parallel-Plate Waveguides. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2013**, 34, 416-422	2.2	9
137	A Maxwell's fish eye lens for the terahertz region. *Applied Physics Letters*, **2013**, 103, 031104	3.4	36
136	A terahertz band-pass resonator based on enhanced reflectivity using spoof surface plasmons. *New Journal of Physics*, **2013**, 15, 055002	2.9	3
135	Evanescent wave coupling in terahertz waveguide arrays. *Optics Express*, **2013**, 21, 17249-55	3.3	2
134	Response to Comment on The transition from a TEM-like mode to a plasmonic mode in parallel-plate waveguides [Appl. Phys. Lett. 102, 246103 (2013)]. *Applied Physics Letters*, **2013**, 102, 246104	3.4	
133	Inhibiting the TE1-mode diffraction losses in terahertz parallel-plate waveguides using concave plates. *Optics Express*, **2012**, 20, 27800-9	3.3	8
132	A mode-matching analysis of dielectric-filled resonant cavities coupled to terahertz parallel-plate waveguides. *Optics Express*, **2012**, 20, 21766-72	3.3	4
131	Terahertz mirage: Deflecting terahertz beams in an inhomogeneous artificial dielectric based on a parallel-plate waveguide. *Applied Physics Letters*, **2012**, 101, 111108	3.4	14
130	A tapered parallel-plate-waveguide probe for THz near-field reflection imaging. *Applied Physics Letters*, **2012**, 100, 031101	3.4	20

129	Study of the impedance mismatch at the output end of a THz parallel-plate waveguide. *Applied Physics Letters*, **2012**, 100, 111120	3.4	11
128	Terahertz multichannel microfluidic sensor based on parallel-plate waveguide resonant cavities. *Applied Physics Letters*, **2012**, 100, 231108	3.4	43
127	Designer reflectors using spoof surface plasmons in the terahertz range. *Physical Review B*, **2012**, 86,	3.3	2
126	Terahertz microfluidic sensing using a parallel-plate waveguide sensor. *Journal of Visualized Experiments*, **2012**, e4304	1.6	1
125	Terahertz reflection time domain spectroscopy of branched alkanes **2011**,		1
124	Characterization of the terahertz near-field output of parallel-plate waveguides. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 558	1.7	19
123	High-contrast terahertz modulator based on extraordinary transmission through a ring aperture. *Optics Express*, **2011**, 19, 26666-71	3.3	37
122	Analysis of rectangular resonant cavities in terahertz parallel-plate waveguides. *Optics Letters*, **2011**, 36, 1452-4	3	18
121	One-Dimensional Terahertz Imaging of Surfactant-Stabilized Dodecane-Brine Emulsions. *IEEE Transactions on Terahertz Science and Technology*, **2011**, 1, 473-476	3.4	1
120	The transition from a TEM-like mode to a plasmonic mode in parallel-plate waveguides. *Applied Physics Letters*, **2011**, 98, 231113	3.4	29
119	Interference-induced terahertz transparency in a semiconductor magneto-plasma. *Nature Physics*, **2010**, 6, 126-130	16.2	77
118	Whispering-gallery-mode terahertz pulse propagation on a curved metallic plate. *Applied Physics Letters*, **2010**, 97, 031106	3.4	5
117	Optimum areal coverage for perfect transmission in a periodic metal hole array. *Applied Physics Letters*, **2010**, 97, 261112	3.4	9
116	Breakthroughs in Terahertz Science and Technology in 2009. *IEEE Photonics Journal*, **2010**, 2, 232-234	1.8	5
115	Mechanically flexible polymeric compound one-dimensional photonic crystals for terahertz frequencies. *Applied Physics Letters*, **2010**, 96, 111108	3.4	51
114	. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 1993-1998	4.1	30
113	Superfocusing terahertz waves below lambda/250 using plasmonic parallel-plate waveguides. *Optics Express*, **2010**, 18, 9643-50	3.3	96
112	Direct measurement of cyclotron coherence times of high-mobility two-dimensional electron gases. *Optics Express*, **2010**, 18, 12354-61	3.3	21

111	Bending and coupling losses in terahertz wire waveguides. *Optics Letters*, **2010**, 35, 553-5	3	18
110	A tunable universal terahertz filter using artificial dielectrics based on parallel-plate waveguides. *Applied Physics Letters*, **2010**, 97, 131106	3.4	62
109	Temperature-Dependent Terahertz Spectroscopy of Liquid n-alkanes. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2010**, 31, 1015-1021	2.2	47
108	Terahertz vibrational modes induced by heterogeneous nucleation in n-alkanes. *Chemical Physics Letters*, **2010**, 493, 279-282	2.5	13
107	Antibonding plasmon mode coupling of an individual hole in a thin metallic film. *Physical Review B*, **2009**, 80,	3.3	11
106	A spatial light modulator for terahertz beams. *Applied Physics Letters*, **2009**, 94, 213511	3.4	209
105	A terahertz two-wire waveguide with low bending loss. *Applied Physics Letters*, **2009**, 95, 233506	3.4	60
104	Terahertz microfluidic sensor based on a parallel-plate waveguide resonant cavity. *Applied Physics Letters*, **2009**, 95, 171113	3.4	108
103	Characterization of terahertz field confinement at the end of a tapered metal wire waveguide. *Applied Physics Letters*, **2009**, 95, 031104	3.4	40
102	An investigation of the lowest-order transverse-electric (TE_1) mode of the parallel-plate waveguide for THz pulse propagation. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, A6	1.7	102
101	Terahertz transmission properties of an individual slit in a thin metallic plate. *Optics Express*, **2009**, 17, 12660-7	3.3	34
100	Comparison of the lowest-order transverse-electric (TE1) and transverse-magnetic (TEM) modes of the parallel-plate waveguide for terahertz pulse applications. *Optics Express*, **2009**, 17, 14839-50	3.3	114
99	A study of background signals in terahertz apertureless near-field microscopy and their use for scattering-probe imaging. *Journal of Applied Physics*, **2009**, 105, 113117	2.5	15
98	Terahertz energy confinement in finite-width parallel-plate waveguides **2009**,		1
97	Sparse Reconstruction of Complex Signals in Compressed Sensing Terahertz Imaging **2009**,		5
96	Terahertz imaging with compressed sensing and phase retrieval. *Optics Letters*, **2008**, 33, 974-6	3	189
95	Dependence of guided resonances on the structural parameters of terahertz photonic crystal slabs. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 633	1.7	23
94	The Impact of Reflections From Stratified Building Materials on the Wave Propagation in Future Indoor Terahertz Communication Systems. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1413-1419	4.9	72

93	Low-Dispersive Dielectric Mirrors for Future Wireless Terahertz Communication Systems. *IEEE Microwave and Wireless Components Letters*, **2008**, 18, 67-69	2.6	31
92	A single-pixel terahertz imaging system based on compressed sensing. *Applied Physics Letters*, **2008** , 93, 121105	3.4	431
91	The excitation and emission of terahertz surface plasmon polaritons on metal wire waveguides. *Comptes Rendus Physique*, **2008**, 9, 215-231	1.4	9
90	Imaging with terahertz radiation. *Reports on Progress in Physics*, **2007**, 70, 1325-1379	14.4	658
89	Determination of additive content in polymeric compounds with terahertz time-domain spectroscopy. *Polymer Testing*, **2007**, 26, 614-618	4.5	86
88	Properties of Building and Plastic Materials in the THz Range. *Journal of Infrared, Millimeter and Terahertz Waves*, **2007**, 28, 363-371		145
87	Temperature dependence of terahertz emission from InMnAs. *Applied Physics Letters*, **2007**, 90, 012103	3.4	7
86	Plasmon-enhanced terahertz near-field microscopy **2007**,		2
85	The metal-insulator transition in VO2 studied using terahertz apertureless near-field microscopy. *Applied Physics Letters*, **2007**, 91, 162110	3.4	38
84	Terahertz imaging with compressed sensing and phase retrieval **2007**,		1
83	Superprism effect in a metal-clad terahertz photonic crystal slab. *Optics Letters*, **2007**, 32, 683-5	3	13
82	Terahertz time-domain magnetospectroscopy of a high-mobility two-dimensional electron gas. *Optics Letters*, **2007**, 32, 1845-7	3	43
81	The effect of structural disorder on guided resonances in photonic crystal slabs studied with terahertz time-domain spectroscopy. *Optics Express*, **2007**, 15, 16954-65	3.3	35
80	Scattering Analysis for the Modeling of THz Communication Systems. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 3002-3009	4.9	160
79	Finite-Element Method Simulations of Guided Wave Phenomena at Terahertz Frequencies. *Proceedings of the IEEE*, **2007**, 95, 1624-1640	14.3	32
78	. *IEEE Antennas and Propagation Magazine*, **2007**, 49, 24-39	1.7	349
77	Dielectric Reflectors for TeraHertz Frequencies. *Journal of Nanoelectronics and Optoelectronics*, **2007**, 2, 77-82	1.3	5
76	Improved dielectric mirrors for the THz frequency range **2006**, 6194, 155		1

75	Characterization of guided resonances in photonic crystal slabs using terahertz time-domain spectroscopy. *Journal of Applied Physics*, **2006**, 100, 123113	2.5	15
74	Dispersion of surface plasmon polaritons on metal wires in the terahertz frequency range. *Physical Review Letters*, **2006**, 96, 157401	7.4	77
73	Broadband group-velocity anomaly in transmission through a terahertz photonic crystal slab. *Physical Review B*, **2006**, 73,	3.3	16
72	Nanostructured virus crystals for X-ray optics. *IEEE Nanotechnology Magazine*, **2006**, 5, 93-96	2.6	4
71	Nonstationary time-domain statistics of multiply scattered broadband terahertz pulses. *Journal of the Optical Society of America B: Optical Physics*, **2006**, 23, 1506	1.7	2
70	Enhanced coupling of terahertz radiation to cylindrical wire waveguides. *Optics Express*, **2006**, 14, 279-90	3.3	90
69	Frequency-dependent radiation patterns emitted by THz plasmons on finite length cylindrical metal wires. *Optics Express*, **2006**, 14, 8772-8	3.3	25
68	Omnidirectional terahertz mirrors: A key element for future terahertz communication systems. *Applied Physics Letters*, **2006**, 88, 202905	3.4	117
67	A photonic crystal sensor based on the superprism effect. *Optical Materials*, **2006**, 29, 56-59	3.3	25
66	Two-dimensional photonic crystal slabs in parallel-plate metal waveguides studied with terahertz time-domain spectroscopy. *Semiconductor Science and Technology*, **2005**, 20, S300-S306	1.8	23
65	Guided propagation of terahertz pulses on metal wires. *Journal of the Optical Society of America B: Optical Physics*, **2005**, 22, 2001	1.7	72
64	Terahertz wide aperture reflection tomography. *Optics Letters*, **2005**, 30, 1653-5	3	32
63	Bayesian approach to non-Gaussian field statistics for diffusive broadband terahertz pulses. *Optics Letters*, **2005**, 30, 2843-5	3	3
62	Imaging and Sensing with Terahertz Radiation. *AIP Conference Proceedings*, **2005**,	0	10
61	Advanced photonic crystal architectures from colloidal self-assembly techniques. *Optical Materials*, **2005**, 27, 1250-1254	3.3	9
60	Out-of-plane dispersion and homogenization in photonic crystal slabs. *Applied Physics Letters*, **2005**, 87, 191113	3.4	19
59	Terahertz guided resonances in photonic crystal slabs **2005**, MB6		
58	Terahertz characterisation of building materials. *Electronics Letters*, **2005**, 41, 1002	1.1	78

57	Effect of disorder on the optical properties of colloidal crystals. *Physical Review E*, **2005**, 71, 016615	2.4	154
56	Photoconductive terahertz antenna with radial symmetry **2005**,		1
55	Propagation effects in apertureless near-field optical antennas. *Applied Physics Letters*, **2004**, 84, 305-307	3.4	44
54	Antenna effects in terahertz apertureless near-field optical microscopy. *Applied Physics Letters*, **2004**, 85, 2715-2717	3.4	87
53	Metal wires for terahertz wave guiding. *Nature*, **2004**, 432, 376-9	50.4	739
52	Linewidth and tuning characteristics of terahertz quantum cascade lasers. *Optics Letters*, **2004**, 29, 575-7	3	92
51	Defect modes in photonic crystal slabs studied using terahertz time-domain spectroscopy. *Optics Letters*, **2004**, 29, 2067-9	3	35
50	Spectral shifts as a signature of the onset of diffusion of broadband terahertz pulses. *Optics Letters* , **2004**, 29, 2926-8	3	12
49	Propagation of terahertz pulses in random media. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2004**, 362, 301-13; discussion 313-4	3	11
48	Multistatic Reflection Imaging with Terahertz Pulses. *International Journal of High Speed Electronics and Systems*, **2003**, 13, 677-699	0.5	1
47	Characterization of apparent superluminal effects in the focus of an axicon lens using terahertz time-domain spectroscopy. *Optics Communications*, **2003**, 219, 289-294	2	22
46	Using terahertz pulses to study light scattering. *Physica B: Condensed Matter*, **2003**, 338, 92-96	2.8	21
45	Terahertz Imaging. *Springer Series in Optical Sciences*, **2003**, 117-153	0.5	33
44	Characterizing individual scattering events by measuring the amplitude and phase of the electric field diffusing through a random medium. *Physical Review Letters*, **2003**, 91, 033903	7.4	28
43	Statistics of multiply scattered broadband terahertz pulses. *Physical Review Letters*, **2003**, 91, 043903	7.4	30
42	Superprism phenomenon in three-dimensional macroporous polymer photonic crystals. *Physical Review B*, **2003**, 67,	3.3	43
41	Single-cycle terahertz electromagnetic pulses: A new test bed for physical seismic modeling. *Geophysics*, **2003**, 68, 308-313	3.1	5
40	Novel device structures based on colloidal photonic crystals **2002**, 4809, 17		1

39	Defining the Fresnel zone for broadband radiation. *Physical Review E*, **2002**, 66, 056602	2.4	25
38	Terahertz multistatic reflection imaging. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2002**, 19, 1432-42	1.8	26
37	Influence of substrate-lens design in terahertz time-domain spectroscopy. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 319	1.7	111
36	Size-Dependent Dielectric Properties of Liquid Water Clusters. *ACS Symposium Series*, **2002**, 284-298	0.4	2
35	Scale model experimentation: using terahertz pulses to study light scattering. *Physics in Medicine and Biology*, **2002**, 47, 3823-30	3.8	16
34	Terahertz Vibrational Modes of Inverse Micelles. *Journal of Physical Chemistry B*, **2002**, 106, 6346-6353	3.4	62
33	The Fabrication and Bandgap Engineering of Photonic Multilayers. *Advanced Materials*, **2001**, 13, 389-393	24	206
32	Interferometric imaging with terahertz pulses. *IEEE Journal of Selected Topics in Quantum Electronics*, **2001**, 7, 592-599	3.8	38
31	Colloidal photonic superlattices. *Physical Review B*, **2001**, 64,	3.3	66
30	Enhanced depth resolution in terahertz imaging using phase-shift interferometry. *Applied Physics Letters*, **2001**, 78, 835-837	3.4	88
29	Direct observation of terahertz surface modes in nanometer-sized liquid water pools. *Physical Review Letters*, **2001**, 87, 147401	7.4	51
28	Terahertz reflection imaging using Kirchhoff migration. *Optics Letters*, **2001**, 26, 1513-5	3	39
27	Propagation of single-cycle terahertz pulses in random media. *Optics Letters*, **2001**, 26, 2002-4	3	34
26	Enhanced Depth Resolution Using Phase-Shift Interferometry. *Optics and Photonics News*, **2001**, 12, 21	1.9	1
25	Material parameter estimation with terahertz time-domain spectroscopy. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2001**, 18, 1562-71	1.8	422
24	Cross-polarized angular emission patterns from lens-coupled terahertz antennas. *Journal of the Optical Society of America B: Optical Physics*, **2001**, 18, 1524	1.7	37
23	Background-free THz Imaging using Interferometric Tomography. *Springer Series in Chemical Physics* , **2001**, 262-264	0.3	
22	Imaging with terahertz pulses **2000**,		1

21	Quadrupole radiation from terahertz dipole antennas. *Optics Letters*, **2000**, 25, 1556-8	3	32
20	Optical properties of a photonic crystal of hollow spherical shells. *Applied Physics Letters*, **2000**, 77, 3517-3519	3.4	76
19	Thickness Dependence of the Optical Properties of Ordered Silica-Air and Air-Polymer Photonic Crystals. *Physical Review Letters*, **1999**, 83, 300-303	7.4	274
18	Optical properties of planar colloidal crystals: Dynamical diffraction and the scalar wave approximation. *Journal of Chemical Physics*, **1999**, 111, 345-354	3.9	114
17	Recent advances in terahertz imaging. *Applied Physics B: Lasers and Optics*, **1999**, 68, 1085-1094	1.9	517
16	Template-Directed Preparation of Macroporous Polymers with Oriented and Crystalline Arrays of Voids. *Journal of the American Chemical Society*, **1999**, 121, 11630-11637	16.4	327
15	Gas sensing using terahertz time-domain spectroscopy. *Applied Physics B: Lasers and Optics*, **1998**, 67, 379-390	1.9	255
14	Noncontact semiconductor wafer characterization with the terahertz Hall effect. *Applied Physics Letters*, **1997**, 71, 16-18	3.4	130
13	T-ray tomography. *Optics Letters*, **1997**, 22, 904-6	3	372
12	Terahertz spectroscopy of water in inverse micelles. *Chemical Physics Letters*, **1997**, 275, 332-338	2.5	92
11	T-Ray Tomography **1997**,		1
10	Chemical recognition of gases and gas mixtures with terahertz waves. *Optics Letters*, **1996**, 21, 2011-3	3	158
9	High-field harmonic generation in the tight-focusing limit. *Journal of the Optical Society of America B: Optical Physics*, **1996**, 13, 170	1.7	12
8	T-ray imaging. *IEEE Journal of Selected Topics in Quantum Electronics*, **1996**, 2, 679-692	3.8	521
7	Nonexponential relaxation in solid C60 via time-dependent singlet exciton annihilation. *Chemical Physics Letters*, **1995**, 235, 552-557	2.5	45
6	Quantum size dependence of femtosecond electronic dephasing and vibrational dynamics in CdSe nanocrystals. *Physical Review B*, **1994**, 49, 14435-14447	3.3	257
5	Ultrafast Dynamics in CdSe Nanocrystals. *Springer Series in Chemical Physics*, **1994**, 351-353	0.3	1
4	Investigation of femtosecond electronic dephasing in CdSe nanocrystals using quantum-beat-suppressed photon echoes. *Physical Review Letters*, **1993**, 70, 1014-1017	7.4	159

3	Ultrafast dynamics of photoexcited C6O **1993**,		3
2	Nonlocal Time-Resolved Terahertz Spectroscopy in the Near Field. *ACS Photonics*,	6.3	2
1	Perspective on Terahertz Applications in Bioscience and Biotechnology. *ACS Photonics*,	6.3	6