

# Richard Averitt

## List of Publications by Citations

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211  
papers

18,275  
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58  
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134  
g-index

269  
ext. papers

21,180  
ext. citations

6.5  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
211	Nanoengineering of optical resonances. <i>Chemical Physics Letters</i> , <b>1998</b> , 288, 243-247	2.5	1867
210	Active terahertz metamaterial devices. <i>Nature</i> , <b>2006</b> , 444, 597-600	50.4	1584
209	A metamaterial absorber for the terahertz regime: design, fabrication and characterization. <i>Optics Express</i> , <b>2008</b> , 16, 7181-8	3.3	991
208	Terahertz-field-induced insulator-to-metal transition in vanadium dioxide metamaterial. <i>Nature</i> , <b>2012</b> , 487, 345-8	50.4	759
207	A metamaterial solid-state terahertz phase modulator. <i>Nature Photonics</i> , <b>2009</b> , 3, 148-151	33.9	679
206	Experimental demonstration of frequency-agile terahertz metamaterials. <i>Nature Photonics</i> , <b>2008</b> , 2, 295-298	33.9	620
205	Highly flexible wide angle of incidence terahertz metamaterial absorber: Design, fabrication, and characterization. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	620
204	Dynamical electric and magnetic metamaterial response at terahertz frequencies. <i>Physical Review Letters</i> , <b>2006</b> , 96, 107401	7.4	616
203	Plasmon Resonance Shifts of Au-Coated Au <sub>2</sub> S Nanoshells: Insight into Multicomponent Nanoparticle Growth. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4217-4220	7.4	590
202	Electrodynamics of correlated electron materials. <i>Reviews of Modern Physics</i> , <b>2011</b> , 83, 471-541	40.5	501
201	Linear optical properties of gold nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 1824	1.7	485
200	Reconfigurable terahertz metamaterials. <i>Physical Review Letters</i> , <b>2009</b> , 103, 147401	7.4	354
199	A dual band terahertz metamaterial absorber. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 225102	3	353
198	Surface enhanced Raman scattering in the near infrared using metal nanoshell substrates. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 4729-4735	3.9	339
197	Towards properties on demand in quantum materials. <i>Nature Materials</i> , <b>2017</b> , 16, 1077-1088	27	308
196	Silk-based conformal, adhesive, edible food sensors. <i>Advanced Materials</i> , <b>2012</b> , 24, 1067-72	24	266
195	Electrically resonant terahertz metamaterials: Theoretical and experimental investigations. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	264

194	Complementary planar terahertz metamaterials. <i>Optics Express</i> , <b>2007</b> , 15, 1084-95	3-3	247
193	Flexible metamaterial absorbers for stealth applications at terahertz frequencies. <i>Optics Express</i> , <b>2012</b> , 20, 635-43	3-3	225
192	Ultrafast optical switching of terahertz metamaterials fabricated on ErAs/GaAs nanoisland superlattices. <i>Optics Letters</i> , <b>2007</b> , 32, 1620-2	3	210
191	Morphology effectively controls singlet-triplet exciton relaxation and charge transport in organic semiconductors. <i>Physical Review Letters</i> , <b>2009</b> , 102, 017401	7-4	193
190	Metamaterials on paper as a sensing platform. <i>Advanced Materials</i> , <b>2011</b> , 23, 3197-201	24	178
189	Enhanced photosusceptibility near T <sub>c</sub> for the light-induced insulator-to-metal phase transition in vanadium dioxide. <i>Physical Review Letters</i> , <b>2007</b> , 99, 226401	7-4	173
188	Ultrafast optical and far-infrared quasiparticle dynamics in correlated electron materials. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, R1357-R1390	1-8	161
187	High speed terahertz modulation from metamaterials with embedded high electron mobility transistors. <i>Optics Express</i> , <b>2011</b> , 19, 9968-75	3-3	150
186	Comparison of birefringent electric split-ring resonator and meanderline structures as quarter-wave plates at terahertz frequencies. <i>Optics Express</i> , <b>2009</b> , 17, 136-49	3-3	138
185	Ultrafast conductivity dynamics in colossal magnetoresistance manganites. <i>Physical Review Letters</i> , <b>2001</b> , 87, 017401	7-4	121
184	Performance enhancement of terahertz metamaterials on ultrathin substrates for sensing applications. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 261909	3-4	119
183	Terahertz metamaterials on free-standing highly-flexible polyimide substrates. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 232004	3	118
182	Recent Progress in Electromagnetic Metamaterial Devices for Terahertz Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 92-101	3-8	113
181	Anisotropic electronic state via spontaneous phase separation in strained vanadium dioxide films. <i>Physical Review Letters</i> , <b>2013</b> , 111, 096602	7-4	110
180	Planar wallpaper group metamaterials for novel terahertz applications. <i>Optics Express</i> , <b>2008</b> , 16, 18565-75	3-3	108
179	Microwave and terahertz wave sensing with metamaterials. <i>Optics Express</i> , <b>2011</b> , 19, 21620-6	3-3	107
178	Hybrid metamaterials enable fast electrical modulation of freely propagating terahertz waves. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 091117	3-4	105
177	Pair-breaking and superconducting state recovery dynamics in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2003</b> , 91, 267002	7-4	104

176	Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. <i>Optics Express</i> , <b>2008</b> , 16, 7641-8	3.3	97
175	Terahertz waveform synthesis via optical rectification of shaped ultrafast laser pulses. <i>Optics Express</i> , <b>2003</b> , 11, 2486-96	3.3	96
174	Electromechanically tunable metasurface transmission waveplate at terahertz frequencies. <i>Optica</i> , <b>2018</b> , 5, 303	8.6	94
173	Optically Modulated Ultra-Broadband All-Silicon Metamaterial Terahertz Absorbers. <i>ACS Photonics</i> , <b>2019</b> , 6, 830-837	6.3	92
172	Terahertz emission via ultrashort-pulse excitation of magnetic metal films. <i>Optics Letters</i> , <b>2004</b> , 29, 1805-7	3.3	92
171	Nonequilibrium superconductivity and quasiparticle dynamics in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	90
170	Metamaterial silk composites at terahertz frequencies. <i>Advanced Materials</i> , <b>2010</b> , 22, 3527-31	2.4	89
169	Cooperative photoinduced metastable phase control in strained manganite films. <i>Nature Materials</i> , <b>2016</b> , 15, 956-60	2.7	86
168	Ultrafast electron dynamics in gold nanoshells. <i>Physical Review B</i> , <b>1998</b> , 58, R10203-R10206	3.3	85
167	Nonlinear terahertz metamaterials via field-enhanced carrier dynamics in GaAs. <i>Physical Review Letters</i> , <b>2013</b> , 110, 217404	7.4	82
166	Three-dimensional broadband tunable terahertz metamaterials. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	80
165	A review of non-linear terahertz spectroscopy with ultrashort tabletop-laser pulses. <i>Journal of Modern Optics</i> , <b>2015</b> , 62, 1447-1479	1.1	79
164	Optically Modulated Multiband Terahertz Perfect Absorber. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1221-1226	3.3	76
163	Enhanced terahertz detection via ErAs:GaAs nanoisland superlattices. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 251119	3.4	74
162	Phase transition in bulk single crystals and thin films of VO <sub>2</sub> by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	73
161	Ultrafast dynamics of surface plasmons in InAs by time-resolved infrared nanospectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 4529-34	11.5	72
160	Temperature-dependent far-infrared spectra of single crystals of high explosives using terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 3501-5	2.8	71
159	Phototunable Dielectric Huygens Metasurfaces. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800278	2.4	69

158	Frequency tunable terahertz metamaterials using broadside coupled split-ring resonators. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	65
157	Stand-up magnetic metamaterials at terahertz frequencies. <i>Optics Express</i> , <b>2011</b> , 19, 12619-27	3.3	65
156	MEMS Based Structurally Tunable Metamaterials at Terahertz Frequencies. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2011</b> , 32, 580-595	2.2	65
155	Voltage-tunable dual-layer terahertz metamaterials. <i>Microsystems and Nanoengineering</i> , <b>2016</b> , 2, 16025	7.7	62
154	Metamaterials on parylene thin film substrates: Design, fabrication, and characterization at terahertz frequency. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 011906	3.4	58
153	Quasiparticle relaxation dynamics in heavy fermion compounds. <i>Physical Review Letters</i> , <b>2003</b> , 91, 027401	7.4	57
152	Ultrafast optical properties of gold nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 1814	1.7	57
151	Nonlinear terahertz metamaterial perfect absorbers using GaAs [Invited]. <i>Photonics Research</i> , <b>2016</b> , 4, A16	6	55
150	Terahertz surface plasmon polariton coupling on metallic gratings. <i>Optics Express</i> , <b>2004</b> , 12, 6397-402	3.3	55
149	Spin-lattice interaction in colossal magnetoresistance manganites. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4025-4027	3.4	54
148	Optically Tunable Terahertz Metamaterials on Highly Flexible Substrates. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 702-708	3.4	53
147	A three-dimensional all-metal terahertz metamaterial perfect absorber. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 051101	3.4	53
146	Optically tunable metamaterial perfect absorber on highly flexible substrate. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 231, 74-80	3.9	50
145	Voltage switching of a VO <sub>2</sub> memory metasurface using ionic gel. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 041117	3.7	48
144	Prism coupling to terahertz surface plasmon polaritons. <i>Optics Express</i> , <b>2005</b> , 13, 6117-26	3.3	48
143	Nonlinear terahertz devices utilizing semiconducting plasmonic metamaterials. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16078	16.7	46
142	Carrier dynamics in self-assembled ErAs nanoislands embedded in GaAs measured by optical-pump terahertz-probe spectroscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 201107	3.4	46
141	Ultrafast conductivity dynamics in pentacene probed using terahertz spectroscopy. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 891-893	3.4	45

140	Ultrafast carrier-relaxation dynamics in self-assembled InAs/GaAs quantum dots. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1480	1.7	45
139	Conductivity artifacts in optical-pump THz-probe measurements of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 327	1.7	45
138	Observation of competing order in a high-T <sub>c</sub> superconductor using femtosecond optical pulses. <i>Physical Review Letters</i> , <b>2007</b> , 99, 147008	7.4	44
137	Time-resolved imaging of near-fields in THz antennas and direct quantitative measurement of field enhancements. <i>Optics Express</i> , <b>2012</b> , 20, 8551-67	3.3	43
136	Rapid transfer-based micropatterning and dry etching of silk microstructures. <i>Advanced Materials</i> , <b>2011</b> , 23, 2015-9	24	42
135	THz near-field Faraday imaging in hybrid metamaterials. <i>Optics Express</i> , <b>2012</b> , 20, 11277-87	3.3	42
134	Coherent acoustic phonons in hexagonal manganite LuMnO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4800-4802	3.4	42
133	Identifying the perfect absorption of metamaterial absorbers. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	41
132	THz spectroscopy of VO <sub>2</sub> epitaxial films: controlling the anisotropic properties through strain engineering. <i>New Journal of Physics</i> , <b>2012</b> , 14, 083026	2.9	40
131	Photoinduced phase transitions by time-resolved far-infrared spectroscopy in V <sub>2</sub> O <sub>3</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 107, 066403	7.4	39
130	Adsorbate-Induced Quenching of Hot Electrons in Gold Core-Shell Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9913-9917	3.4	39
129	Terahertz investigation of bound states in the continuum of metallic metasurfaces. <i>Optica</i> , <b>2020</b> , 7, 1548-6	3.8	38
128	Large-area metamaterials on thin membranes for multilayer and curved applications at terahertz and higher frequencies. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 161113	3.4	37
127	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in La <sub>1-x</sub> CaxMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	36
126	Analysis of the thickness dependence of metamaterial absorbers at terahertz frequencies. <i>Optics Express</i> , <b>2018</b> , 26, 2242-2251	3.3	34
125	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	34
124	Single-shot, interferometric, high-resolution, terahertz field diagnostic. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 041123	3.4	33
123	Multi-messenger nanoprobe of hidden magnetism in a strained manganite. <i>Nature Materials</i> , <b>2020</b> , 19, 397-404	27	33

122	Magnetic exchange interaction between rare-earth and Mn ions in multiferroic hexagonal manganites. <i>Physical Review Letters</i> , <b>2008</b> , 101, 247601	7.4	32
121	Ultrafast quasiparticle relaxation dynamics in normal metals and heavy-fermion materials. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	32
120	Terahertz metamaterial perfect absorber with continuously tunable air spacer layer. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 061113	3.4	31
119	Dynamic conductivity scaling in photoexcited V2O3 thin films. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	31
118	Symmetry breaking and geometric confinement in VO2: Results from a three-dimensional infrared nano-imaging. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 121905	3.4	31
117	C-axis Josephson plasma resonance observed in Tl(2)Ba(2)CaCu(2)O(8) superconducting thin films by use of terahertz time-domain spectroscopy. <i>Optics Letters</i> , <b>2001</b> , 26, 1292-4	3	31
116	On Photo-Induced Phenomena in Complex Materials: Probing Quasiparticle Dynamics using Infrared and Far-Infrared Pulses. <i>Journal of the Physical Society of Japan</i> , <b>2006</b> , 75, 011006	1.5	30
115	Evidence of a hidden-order pseudogap state in URu2Si2 using ultrafast optical spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
114	Carrier dynamics in InGaAs with embedded ErAs nanoislands. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 121108	3.4	29
113	A survey of theoretical models for terahertz electromagnetic metamaterial absorbers. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 287, 21-28	3.9	29
112	Quasiparticle relaxation across the spin-density-wave gap in the itinerant antiferromagnet UNiGa5. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	28
111	Picosecond dynamics of the spin-lattice relaxation in La0.7Ca0.2MnO3: Magnetic-field dependence. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	26
110	Detection of coherent magnons via ultrafast pump-probe reflectance spectroscopy in multiferroic Ba0.6Sr1.4Zn2Fe12O22. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097603	7.4	25
109	Coupling between an optical phonon and the Kondo effect. <i>Physical Review Letters</i> , <b>2008</b> , 100, 026409	7.4	24
108	Properties of Planar Electric Metamaterials for Novel TeraHertz Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2007</b> , 2, 90-95	1.3	24
107	Photoenhanced metastable c-axis electrodynamics in stripe-ordered cuprate LaBaCuO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19875-19879	11.5	24
106	Towards Dynamic, Tunable, and Nonlinear Metamaterials via Near Field Interactions: A Review. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2013</b> , 34, 709-723	2.2	22
105	Artifact free time resolved near-field spectroscopy. <i>Optics Express</i> , <b>2017</b> , 25, 28589	3.3	22

104	Ultrafast electron-lattice coupling dynamics in VO <sub>2</sub> and V <sub>2</sub> O <sub>3</sub> thin films. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	21
103	Gold nanoparticle-doped biocompatible silk films as a path to implantable thermo-electrically wireless powering devices. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 123702	3.4	21
102	THz transmission spectroscopy and imaging: application to the energetic materials PBX 9501 and PBX 9502. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 428-31	3.1	20
101	Amorphous silicon nitride films of different composition deposited at room temperature by pulsed glow discharge plasma immersion ion implantation and deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 2342-2346	2.9	19
100	Programmable hyperbolic polaritons in van der Waals semiconductors. <i>Science</i> , <b>2021</b> , 371, 617-620	33.3	19
99	Structural control of metamaterial oscillator strength and electric field enhancement at terahertz frequencies. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 081112	3.4	18
98	Single-layer terahertz metamaterials with bulk optical constants. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	18
97	Photoexcited carrier relaxation dynamics in pentacene probed by ultrafast optical spectroscopy: Influence of morphology on relaxation processes. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 3127-3130	2.8	18
96	Excimer Model for Photoluminescence in Single-Crystal C <sub>60</sub> . <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 2854-2861		18
95	Terahertz radiation-induced sub-cycle field electron emission across a split-gap dipole antenna. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 231101	3.4	17
94	Extremely Thin Metamaterial as Slab Waveguide at Terahertz Frequencies. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2011</b> , 1, 441-449	3.4	17
93	The role of trapped Ar atoms in the mechanical properties of boron carbide films deposited by dc-magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 1639-1643	2.9	17
92	Ultrafast carrier dynamics in an InAs/InGaAs quantum dots-in-a-well heterostructure. <i>Optics Express</i> , <b>2008</b> , 16, 1165-73	3.3	16
91	Phase inhomogeneities in the charge-orbital-ordered manganite Nd <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> revealed through polaron dynamics. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	16
90	C <sub>60</sub> Triplet Lifetimes: Vibrational Energy Dependence from 0 to 80,000 cm <sup>-1</sup> . <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 11306-11308		16
89	Photoluminescence spectra of epitaxial single crystal C <sub>60</sub> . <i>Chemical Physics Letters</i> , <b>1995</b> , 242, 592-597	2.5	15
88	Terahertz saturable absorption in superconducting metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 2649	1.7	15
87	An air-spaced terahertz metamaterial perfect absorber. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 303-308	3.9	14

86	Polarization orientation dependence of the far infrared spectra of oriented single crystals of 1,3,5-trinitro-S-triazine (RDX) using terahertz time-domain spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 315-22	4.4	14
85	Role of intericosahedral chains on the hardness of sputtered boron carbide films. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4173-4175	3.4	14
84	High-purity vapor phase purification of C60. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 374-376	3.4	14
83	Spin-dependent polaron formation dynamics in Eu <sub>0.75</sub> Y <sub>0.25</sub> MnO <sub>3</sub> probed by femtosecond pump-probe spectroscopy. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	13
82	External modulators for TeraHertz Quantum Cascade Lasers based on electrically-driven active metamaterials. <i>Metamaterials</i> , <b>2010</b> , 4, 83-88		13
81	Femtosecond exciton dynamics in WSe optical waveguides. <i>Nature Communications</i> , <b>2020</b> , 11, 3567	17.4	13
80	Decoupling crossover in asymmetric broadside coupled split-ring resonators at terahertz frequencies. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	12
79	Role of boron for defect evolution in hydrogen-implanted silicon. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3042-3044	3.4	12
78	Evidence for linelike vortex liquid phase in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> probed by the Josephson plasma resonance. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	12
77	Real-time tunable phase response and group delay in broadside coupled split-ring resonators. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
76	Orientation dependent far-infrared terahertz absorptions in single crystal pentaerythritol tetranitrate (PETN) using terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 439-42	2.8	11
75	Optically induced lattice dynamics probed with ultrafast x-ray diffraction. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11
74	Spectral interferometric coherent Raman imaging. <i>Optics Express</i> , <b>2005</b> , 13, 7672-82	3.3	10
73	Imaging with metamaterials. <i>Nature Reviews Physics</i> , <b>2022</b> , 4, 85-100	23.6	10
72	The effect of interfacial roughness on the normal incidence bandgap of one-dimensional photonic crystals. <i>Optics Express</i> , <b>2005</b> , 13, 8380-9	3.3	9
71	Comment on "Photoinduced changes of reflectivity in single crystals of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> (Ortho II)". <i>Physical Review Letters</i> , <b>2003</b> , 91, 169701; author reply 169702	7.4	9
70	Time-resolved quasiparticle dynamics of the itinerant antiferromagnet UPtGa <sub>5</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
69	Photoinduced Conductivity Dynamics Studies of MgB <sub>2</sub> Thin Films. <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 3675-3681	1.1	8

68	Coupled charge-spin dynamics of the magnetoresistive pyrochlore $\text{Ti}_2\text{Mn}_2\text{O}_7$ probed using ultrafast midinfrared spectroscopy. <i>Physical Review Letters</i> , <b>2005</b> , 95, 267404	7.4	8
67	Dynamics of a Persistent Insulator-to-Metal Transition in Strained Manganite Films. <i>Physical Review Letters</i> , <b>2019</b> , 123, 267201	7.4	8
66	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. <i>Nano Letters</i> , <b>2021</b> , 21, 308-316	11.5	8
65	Growth of thin Fe(001) films for terahertz emission experiments. <i>Applied Surface Science</i> , <b>2007</b> , 253, 6998-7003	7.0	7
64	Unambiguous chirp characterization using modified-spectrum auto-interferometric correlation and pulse spectrum. <i>Optics Express</i> , <b>2006</b> , 14, 8890-9	3.3	7
63	Properties of dynamical electromagnetic metamaterials. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 084003	1.7	6
62	Dynamic coupling-decoupling crossover in the current-driven vortex state in $\text{Ti}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ probed by the Josephson plasma resonance. <i>Physical Review Letters</i> , <b>2006</b> , 97, 237001	7.4	6
61	Nonequilibrium Superconductivity Probed by Time-Resolved Far-Infrared Conductivity Dynamics: Comparison Between $\text{MgB}_2$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2004</b> , 17, 143-149	6.0	6
60	On-chip terahertz modulation and emission with integrated graphene junctions. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 161104	3.4	5
59	Strong Metasurface-Josephson Plasma Resonance Coupling in Superconducting $\text{La}_2\text{SrxCuO}_4$ . <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900712	8.1	5
58	Flexible terahertz metamaterials: towards a terahertz metamaterial invisible cloak <b>2008</b> ,	5.0	5
57	Boron-enhanced blistering and exfoliation in hydrogen-implanted $\text{SrTiO}_3$ . <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 7045-7051	2.5	5
56	Incorporation of fluorine in hydrogenated silicon carbide films deposited by pulsed glow discharge. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1223-1228	2.9	5
55	Ultrafast large dynamic range spectroscopy. <i>Optics Communications</i> , <b>1994</b> , 110, 327-333	2.0	5
54	Influence of spin and orbital fluctuations on Mott-Hubbard exciton dynamics in $\text{LaVO}_3$ thin films. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
53	Ultrafast Enhancement of Ferromagnetic Spin Exchange Induced by Ligand-to-Metal Charge Transfer. <i>Physical Review Letters</i> , <b>2020</b> , 125, 197203	7.4	5
52	Broadband Terahertz Silicon Membrane Metasurface Absorber. <i>ACS Photonics</i> ,	6.3	5
51	Ultrathin Terahertz Triple-Band Metamaterial Absorbers: Consideration of Interlayer Coupling. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4

50	Broadband electrically tunable VO <sub>2</sub> -Metamaterial terahertz switch with suppressed reflection. <i>Microwave and Optical Technology Letters</i> , <b>2020</b> , 62, 2782-2790	1.2	4
49	Ultrafast terahertz spectroscopy study of a Kondo insulating thin-film SmB <sub>6</sub> : Evidence for an emergent surface state. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
48	Tailoring the Spectra of Terahertz Emission from CdTe and ZnTe Electro-Optic Crystals. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 202-204	1.4	4
47	Solvent Free High Purity Solid C <sub>60</sub> : Optical Properties. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 256, 225-232		4
46	On-demand terahertz surface wave generation with MEMS-based metasurface. <i>Optica</i> ,	8.6	4
45	Interlayer magnetophononic coupling in MnBiTe.. <i>Nature Communications</i> , <b>2022</b> , 13, 1929	17.4	4
44	ELECTROMAGNETIC COMPOSITE-BASED REFLECTING TERAHERTZ WAVEPLATES. <i>International Journal of High Speed Electronics and Systems</i> , <b>2011</b> , 20, 583-588	0.5	3
43	Three-dimensional magnetic terahertz metamaterials using a multilayer electroplating technique. <i>Journal of Micromechanics and Microengineering</i> , <b>2012</b> , 22, 045011	2	3
42	Terahertz metamaterial devices <b>2007</b> ,		3
41	Nanotextured Dynamics of a Light-Induced Phase Transition in VO. <i>Nano Letters</i> , <b>2021</b> , 21, 9052-9060	11.5	3
40	Dynamical Electric Metamaterial Response at Terahertz Frequencies. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 642-644	0.3	3
39	Magnetoelastic coupling to coherent acoustic phonon modes in the ferrimagnetic insulator GdTlO <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
38	Ultrafast quasiparticle dynamics in the correlated semimetal Ca <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
37	An air-spacer terahertz metamaterial perfect absorber for sensing and detection applications <b>2017</b> ,		2
36	Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region <b>2011</b> ,		2
35	Terahertz Metamaterials on Thin Silicon Nitride Membranes. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1077, 71801		2
34	Application of the homogenization approximation to rough one-dimensional photonic crystals. <i>Optics Letters</i> , <b>2005</b> , 30, 2930-2	3	2
33	Josephson plasma resonance in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> in a magnetic field measured using THz spectroscopy. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 312-313, 84-85	2.8	2

32	Nucleation and Growth Bottleneck in the Conductivity Recovery Dynamics of Nickelate Ultrathin Films. <i>Nano Letters</i> , <b>2020</b> , 20, 7422-7428	11.5	2
31	Structural tuning of nonlinear terahertz metamaterials using broadside coupled split ring resonators. <i>AIP Advances</i> , <b>2021</b> , 11, 095103	1.5	2
30	Visualization of guided and leaky wave behaviors in an indium tin oxide metallic slab waveguide. <i>Optics Express</i> , <b>2015</b> , 23, 14876-96	3.3	1
29	Optically Tunable All-Dielectric Broadband Terahertz Metamaterial Perfect Absorber <b>2019</b> ,		1
28	Terahertz polarimetry based on metamaterial devices <b>2012</b> ,		1
27	Flexible and tunable metamaterials at terahertz frequencies <b>2013</b> ,		1
26	Effect of nonuniform continuum density of states on a Fano resonance in semiconductor quantum wells. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	1
25	Terahertz metamaterials <b>2009</b> ,		1
24	Three envelope approach for ultrafast pulse characterization in a pump-probe experiment. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 061111	3.4	1
23	Active Terahertz Metamaterial Devices <b>2008</b> ,		1
22	Enhanced terahertz detection via ErAs:GaAs nanoisland superlattices <b>2006</b> ,		1
21	Terahertz metamaterials for active, tunable, and dynamic devices <b>2007</b> ,		1
20	Dynamical Metamaterials at Terahertz Frequencies <b>2006</b> ,		1
19	Exciton dynamics in pentacene and tetracene studied using optical pump-probe spectroscopy. <i>Springer Series in Chemical Physics</i> , <b>2005</b> , 269-271	0.3	1
18	Split-Ring Resonator Enhanced Terahertz Antenna <b>2007</b> ,		1
17	3D Stand-up Metamaterials With A Purely Magnetic Resonance At Terahertz Frequencies <b>2010</b> ,		1
16	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1415-1416	0.5	0
15	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial. <i>Advanced Optical Materials</i> , <b>2015</b> , 2108215	0.5	0

- 14 Dynamic investigations of multiferroics: Terahertz and beyond. *Journal of Physics: Conference Series*, **2009**, 148, 012037 0.3
- 13 Probing nanoscale inhomogeneities in transition metal oxides with ultrafast mid-infrared spectroscopy. *Physica B: Condensed Matter*, **2008**, 403, 1401-1403 2.8
- 12 Fe(001) thin films for x-ray diffraction and terahertz emission studies. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2006**, 24, 1509-1513 2.9
- 11 Ultrafast dynamics of the Itinerant Antiferromagnet UNiGa5. *Materials Research Society Symposia Proceedings*, **2005**, 893, 1
- 10 Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial (Advanced Optical Materials 22/2021). *Advanced Optical Materials*, **2021**, 9, 2170091 8.1
- 9 Ultrafast THz conductivity dynamics: spinlattice relaxation in colossal magnetoresistive oxides. *Springer Series in Chemical Physics*, **2001**, 434-436 0.3
- 8 Observation of the Josephson Plasma Resonance in Tl<sub>2</sub>Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> using THz Spectroscopy. *Springer Series in Chemical Physics*, **2001**, 431-433 0.3
- 7 Carrier Relaxation Dynamics in Heavy Fermion Compounds. *Springer Series in Chemical Physics*, **2003**, 319-321 0.3
- 6 Far-Infrared Carrier Dynamics in Superconducting MgB<sub>2</sub>. *Springer Series in Chemical Physics*, **2003**, 389-391 0.3
- 5 Cooper pair breaking dynamics in MgB<sub>2</sub> using optieal-pump terahertz-probe spectroscopy. *Springer Series in Chemical Physics*, **2005**, 726-728 0.3
- 4 Ultrafast Mid-Infrared Dynamics in the Colossal Magnetoresistance Pyrochlore Tl<sub>2</sub>Mn<sub>2</sub>O<sub>7</sub>. *Springer Series in Chemical Physics*, **2005**, 313-315 0.3
- 3 Dynamic coupling-decoupling crossover in the current-driven vortex-state in Tl<sub>2</sub>Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> studied using terahertz time-domain spectroscopy. *Springer Series in Chemical Physics*, **2005**, 325-327 0.3
- 2 Dynamic Metamaterials at Terahertz Frequencies. *Springer Series in Chemical Physics*, **2009**, 645-647 0.3
- 1 The Optical Properties of Metals **2011**, 79-108