

Richard Averitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7396618/publications.pdf>

Version: 2024-02-01

263
papers

23,172
citations

17405

63
h-index

7718

150
g-index

269
all docs

269
docs citations

269
times ranked

16626
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoengineering of optical resonances. <i>Chemical Physics Letters</i> , 1998, 288, 243-247.	1.2	2,114
2	Active terahertz metamaterial devices. <i>Nature</i> , 2006, 444, 597-600.	13.7	2,066
3	A metamaterial absorber for the terahertz regime: design, fabrication and characterization. <i>Optics Express</i> , 2008, 16, 7181.	1.7	1,243
4	Terahertz-field-induced insulator-to-metal transition in vanadium dioxide metamaterial. <i>Nature</i> , 2012, 487, 345-348.	13.7	1,046
5	A metamaterial solid-state terahertz phase modulator. <i>Nature Photonics</i> , 2009, 3, 148-151.	15.6	864
6	Dynamical Electric and Magnetic Metamaterial Response at Terahertz Frequencies. <i>Physical Review Letters</i> , 2006, 96, 107401.	2.9	767
7	Experimental demonstration of frequency-agile terahertz metamaterials. <i>Nature Photonics</i> , 2008, 2, 295-298.	15.6	765
8	Highly flexible wide angle of incidence terahertz metamaterial absorber: Design, fabrication, and characterization. <i>Physical Review B</i> , 2008, 78, .	1.1	749
9	Plasmon Resonance Shifts of Au-Coated Au ₂ S Nanoshells: Insight into Multicomponent Nanoparticle Growth. <i>Physical Review Letters</i> , 1997, 78, 4217-4220.	2.9	648
10	Electrodynamics of correlated electron materials. <i>Reviews of Modern Physics</i> , 2011, 83, 471-541.	16.4	633
11	Linear optical properties of gold nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1824.	0.9	563
12	Towards properties on demand in quantum materials. <i>Nature Materials</i> , 2017, 16, 1077-1088.	13.3	560
13	Reconfigurable Terahertz Metamaterials. <i>Physical Review Letters</i> , 2009, 103, 147401.	2.9	446
14	A dual band terahertz metamaterial absorber. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 225102.	1.3	424
15	Surface enhanced Raman scattering in the near infrared using metal nanoshell substrates. <i>Journal of Chemical Physics</i> , 1999, 111, 4729-4735.	1.2	363
16	Electrically resonant terahertz metamaterials: Theoretical and experimental investigations. <i>Physical Review B</i> , 2007, 75, .	1.1	343
17	Silk-Based Conformal, Adhesive, Edible Food Sensors. <i>Advanced Materials</i> , 2012, 24, 1067-1072.	11.1	335
18	Flexible metamaterial absorbers for stealth applications at terahertz frequencies. <i>Optics Express</i> , 2012, 20, 635.	1.7	308

#	ARTICLE	IF	CITATIONS
19	Complementary planar terahertz metamaterials. <i>Optics Express</i> , 2007, 15, 1084.	1.7	307
20	Ultrafast optical switching of terahertz metamaterials fabricated on ErAs/GaAs nanoisland superlattices. <i>Optics Letters</i> , 2007, 32, 1620.	1.7	250
21	Morphology Effectively Controls Singlet-Triplet Exciton Relaxation and Charge Transport in Organic Semiconductors. <i>Physical Review Letters</i> , 2009, 102, 017401.	2.9	213
22	Metamaterials on Paper as a Sensing Platform. <i>Advanced Materials</i> , 2011, 23, 3197-3201.	11.1	210
23	Enhanced Photosusceptibility near T_c for the Light-Induced Insulator-to-Metal Phase Transition in Vanadium Dioxide. <i>Physical Review Letters</i> , 2007, 99, 226401.	2.9	203
24	Ultrafast optical and far-infrared quasiparticle dynamics in correlated electron materials. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R1357-R1390.	0.7	197
25	High speed terahertz modulation from metamaterials with embedded high electron mobility transistors. <i>Optics Express</i> , 2011, 19, 9968.	1.7	194
26	Comparison of birefringent electric split-ring resonator and meanderline structures as quarter-wave plates at terahertz frequencies. <i>Optics Express</i> , 2009, 17, 136.	1.7	161
27	Optically Modulated Ultra-Broadband All-Silicon Metamaterial Terahertz Absorbers. <i>ACS Photonics</i> , 2019, 6, 830-837.	3.2	161
28	Performance enhancement of terahertz metamaterials on ultrathin substrates for sensing applications. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	158
29	Recent Progress in Electromagnetic Metamaterial Devices for Terahertz Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 92-101.	1.9	158
30	Ultrafast Conductivity Dynamics in Colossal Magnetoresistance Manganites. <i>Physical Review Letters</i> , 2001, 87, 017401.	2.9	142
31	Terahertz metamaterials on free-standing highly-flexible polyimide substrates. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 232004.	1.3	140
32	Terahertz waveform synthesis via optical rectification of shaped ultrafast laser pulses. <i>Optics Express</i> , 2003, 11, 2486.	1.7	138
33	Electromechanically tunable metasurface transmission waveplate at terahertz frequencies. <i>Optica</i> , 2018, 5, 303.	4.8	134
34	Microwave and terahertz wave sensing with metamaterials. <i>Optics Express</i> , 2011, 19, 21620.	1.7	127
35	Planar wallpaper group metamaterials for novel terahertz applications. <i>Optics Express</i> , 2008, 16, 18565.	1.7	124
36	Hybrid metamaterials enable fast electrical modulation of freely propagating terahertz waves. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	124

#	ARTICLE	IF	CITATIONS
37	Anisotropic Electronic State via Spontaneous Phase Separation in Strained Vanadium Dioxide Films. <i>Physical Review Letters</i> , 2013, 111, 096602.	2.9	122
38	Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. <i>Optics Express</i> , 2008, 16, 7641.	1.7	119
39	A review of non-linear terahertz spectroscopy with ultrashort tabletop-laser pulses. <i>Journal of Modern Optics</i> , 2015, 62, 1447-1479.	0.6	119
40	Cooperative photoinduced metastable phase control in strained manganite films. <i>Nature Materials</i> , 2016, 15, 956-960.	13.3	118
41	Pair-Breaking and Superconducting State Recovery Dynamics in MgB ₂ . <i>Physical Review Letters</i> , 2003, 91, 267002.	2.9	115
42	Terahertz emission via ultrashort-pulse excitation of magnetic metal films. <i>Optics Letters</i> , 2004, 29, 1805.	1.7	112
43	Terahertz investigation of bound states in the continuum of metallic metasurfaces. <i>Optica</i> , 2020, 7, 1548.	4.8	108
44	Nonequilibrium superconductivity and quasiparticle dynamics in YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 2001, 63, .	1.1	106
45	Nonlinear Terahertz Metamaterials via Field-Enhanced Carrier Dynamics in GaAs. <i>Physical Review Letters</i> , 2013, 110, 217404.	2.9	105
46	Active Terahertz Metamaterial Devices. , 2008, , .		103
47	Metamaterial Silk Composites at Terahertz Frequencies. <i>Advanced Materials</i> , 2010, 22, 3527-3531.	11.1	102
48	Ultrafast electron dynamics in gold nanoshells. <i>Physical Review B</i> , 1998, 58, R10203-R10206.	1.1	94
49	Optically Modulated Multiband Terahertz Perfect Absorber. <i>Advanced Optical Materials</i> , 2014, 2, 1221-1226.	3.6	94
50	Enhanced terahertz detection via ErAs:GaAs nanoisland superlattices. <i>Applied Physics Letters</i> , 2006, 88, 251119.	1.5	93
51	Three-dimensional broadband tunable terahertz metamaterials. <i>Physical Review B</i> , 2013, 87, .	1.1	93
52	Ultrafast Dynamics of Surface Plasmons in InAs by Time-Resolved Infrared Nanospectroscopy. <i>Nano Letters</i> , 2014, 14, 4529-4534.	4.5	92
53	MEMS Based Structurally Tunable Metamaterials at Terahertz Frequencies. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 580-595.	1.2	89
54	Phototunable Dielectric Huygens' Metasurfaces. <i>Advanced Materials</i> , 2018, 30, e1800278.	11.1	89

#	ARTICLE	IF	CITATIONS
55	Phase transition in bulk single crystals and thin films of VO_2 by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , 2015, 91, .	1.1	88
56	Temperature-Dependent Far-Infrared Spectra of Single Crystals of High Explosives Using Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3501-3505.	1.1	83
57	Stand-up magnetic metamaterials at terahertz frequencies. <i>Optics Express</i> , 2011, 19, 12619.	1.7	79
58	Voltage-tunable dual-layer terahertz metamaterials. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16025.	3.4	79
59	Frequency tunable terahertz metamaterials using broadside coupled split-ring resonators. <i>Physical Review B</i> , 2011, 83, .	1.1	77
60	A three-dimensional all-metal terahertz metamaterial perfect absorber. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	75
61	Terahertz surface plasmon polariton coupling on metallic gratings. <i>Optics Express</i> , 2004, 12, 6397.	1.7	69
62	Quasiparticle Relaxation Dynamics in Heavy Fermion Compounds. <i>Physical Review Letters</i> , 2003, 91, 027401.	2.9	67
63	Nonlinear terahertz metamaterial perfect absorbers using GaAs [Invited]. <i>Photonics Research</i> , 2016, 4, A16.	3.4	67
64	Optically tunable metamaterial perfect absorber on highly flexible substrate. <i>Sensors and Actuators A: Physical</i> , 2015, 231, 74-80.	2.0	65
65	Nonlinear terahertz devices utilizing semiconducting plasmonic metamaterials. <i>Light: Science and Applications</i> , 2016, 5, e16078-e16078.	7.7	65
66	Ultrafast optical properties of gold nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1814.	0.9	64
67	Metamaterials on parylene thin film substrates: Design, fabrication, and characterization at terahertz frequency. <i>Applied Physics Letters</i> , 2010, 96, 011906.	1.5	64
68	Imaging with metamaterials. <i>Nature Reviews Physics</i> , 2022, 4, 85-100.	11.9	64
69	Spin-lattice interaction in colossal magnetoresistance manganites. <i>Applied Physics Letters</i> , 2000, 77, 4025-4027.	1.5	63
70	Prism coupling to terahertz surface plasmon polaritons. <i>Optics Express</i> , 2005, 13, 6117.	1.7	61
71	Optically Tunable Terahertz Metamaterials on Highly Flexible Substrates. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 702-708.	2.0	61
72	Ultrafast carrier-relaxation dynamics in self-assembled InAs/GaAs quantum dots. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1480.	0.9	60

#	ARTICLE	IF	CITATIONS
73	Voltage switching of a VO ₂ memory metasurface using ionic gel. Applied Physics Letters, 2014, 105, .	1.5	60
74	Multi-messenger nanoprobe of hidden magnetism in a strained manganite. Nature Materials, 2020, 19, 397-404.	13.3	59
75	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	6.0	58
76	Carrier dynamics in self-assembled ErAs nanoislands embedded in GaAs measured by optical-pump terahertz-probe spectroscopy. Applied Physics Letters, 2005, 86, 201107.	1.5	56
77	Conductivity artifacts in optical-pump THz-probe measurements of YBa ₂ Cu ₃ O ₇ . Journal of the Optical Society of America B: Optical Physics, 2000, 17, 327.	0.9	55
78	Time-resolved imaging of near-fields in THz antennas and direct quantitative measurement of field enhancements. Optics Express, 2012, 20, 8551.	1.7	55
79	THz near-field Faraday imaging in hybrid metamaterials. Optics Express, 2012, 20, 11277.	1.7	54
80	Identifying the perfect absorption of metamaterial absorbers. Physical Review B, 2018, 97, .	1.1	54
81	Photoinduced Phase Transitions by Time-Resolved Far-Infrared Spectroscopy in V_2O_3 . Physical Review Letters, 2011, 107, 066403.	2.9	53
82	A survey of theoretical models for terahertz electromagnetic metamaterial absorbers. Sensors and Actuators A: Physical, 2019, 287, 21-28.	2.0	52
83	Coherent acoustic phonons in hexagonal manganite LuMnO ₃ . Applied Physics Letters, 2003, 83, 4800-4802.	1.5	51
84	Ultrafast conductivity dynamics in pentacene probed using terahertz spectroscopy. Applied Physics Letters, 2004, 84, 891-893.	1.5	51
85	Photoenhanced metastable c-axis electrodynamic in stripe-ordered cuprate La _{1.885} Ba _{0.115} CuO ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19875-19879.	3.3	51
86	Observation of Competing Order in a High-T _c Superconductor Using Femtosecond Optical Pulses. Physical Review Letters, 2007, 99, 147008.	2.9	50
87	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	1.1	49
88	Analysis of the thickness dependence of metamaterial absorbers at terahertz frequencies. Optics Express, 2018, 26, 2242.	1.7	48
89	Rapid Transfer-Based Micropatterning and Dry Etching of Silk Microstructures. Advanced Materials, 2011, 23, 2015-2019.	11.1	47
90	THz spectroscopy of VO ₂ epitaxial films: controlling the anisotropic properties through strain engineering. New Journal of Physics, 2012, 14, 083026.	1.2	46

#	ARTICLE	IF	CITATIONS
91	Large-area metamaterials on thin membranes for multilayer and curved applications at terahertz and higher frequencies. Applied Physics Letters, 2009, 94, 161113.	1.5	42
92	Dynamic conductivity scaling in photoexcited V_2O_3 thin films. Physical Review B, 2015, 92, .	1.1	42
93	Terahertz metamaterial perfect absorber with continuously tunable air spacer layer. Applied Physics Letters, 2018, 113, .	1.5	42
94	Single-shot, interferometric, high-resolution, terahertz field diagnostic. Applied Physics Letters, 2006, 88, 041123.	1.5	41
95	Adsorbate-Induced Quenching of Hot Electrons in Gold Core-Shell Nanoparticles. Journal of Physical Chemistry B, 2001, 105, 9913-9917.	1.2	40
96	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in $La_{1-x}Ca_xMnO_3$. Physical Review B, 2005, 71, .	1.1	38
97	Ultrafast quasiparticle relaxation dynamics in normal metals and heavy-fermion materials. Physical Review B, 2004, 69, .	1.1	37
98	Carrier dynamics in InGaAs with embedded ErAs nanoislands. Applied Physics Letters, 2008, 93, 121108.	1.5	37
99	On Photo-Induced Phenomena in Complex Materials: Probing Quasiparticle Dynamics using Infrared and Far-Infrared Pulses. Journal of the Physical Society of Japan, 2006, 75, 011006.	0.7	36
100	Magnetic Exchange Interaction between Rare-Earth and Mn Ions in Multiferroic Hexagonal Manganites. Physical Review Letters, 2008, 101, 247601.	2.9	36
101	Symmetry breaking and geometric confinement in VO ₂ : Results from a three-dimensional infrared nano-imaging. Applied Physics Letters, 2014, 104, 121905.	1.5	36
102	C-axis Josephson plasma resonance observed in $Tl_2Ba_2Cu_{2O_8}$ superconducting thin films by use of terahertz time-domain spectroscopy. Optics Letters, 2001, 26, 1292.	1.7	35
103	Towards Dynamic, Tunable, and Nonlinear Metamaterials via Near Field Interactions: A Review. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 709-723.	1.2	33
104	Evidence of a hidden-order pseudogap state in URu ₂ Si ₂ using ultrafast optical spectroscopy. Physical Review B, 2015, 92, .	1.1	32
105	and V_2O_3 thin films. Physical Review B, 2017, 96, .	1.1	32
106	Broadband Terahertz Silicon Membrane Metasurface Absorber. ACS Photonics, 2022, 9, 1150-1156.	3.2	32
107	Femtosecond exciton dynamics in WSe ₂ optical waveguides. Nature Communications, 2020, 11, 3567.	5.8	31
108	Quasiparticle relaxation across the spin-density-wave gap in the itinerant antiferromagnet UNiGa ₅ . Physical Review B, 2006, 74, .	1.1	30

#	ARTICLE	IF	CITATIONS
109	Artifact free time resolved near-field spectroscopy. Optics Express, 2017, 25, 28589.	1.7	30
110	Properties of Planar Electric Metamaterials for Novel TeraHertz Applications. Journal of Nanoelectronics and Optoelectronics, 2007, 2, 90-95.	0.1	30
111	Picosecond dynamics of the spin-lattice relaxation in La _{0.7} Ca _{0.2} MnO ₃ :Magnetic-field dependence. Physical Review B, 2001, 63, .	1.1	29
112	Detection of Coherent Magnons via Ultrafast Pump-Probe Reflectance Spectroscopy in Multiferroic Ba _{0.6} O ₂₂ . Physical Review Letters, 2008, 101, 097603.	2.9	29
113	Coupling between an Optical Phonon and the Kondo Effect. Physical Review Letters, 2008, 100, 026409.	2.9	29
114	THz Transmission Spectroscopy and Imaging: Application to the Energetic Materials PBX 9501 and PBX 9502. Applied Spectroscopy, 2004, 58, 428-431.	1.2	28
115	Gold nanoparticle-doped biocompatible silk films as a path to implantable thermo-electrically wireless powering devices. Applied Physics Letters, 2010, 97, 123702.	1.5	24
116	Photoexcited carrier relaxation dynamics in pentacene probed by ultrafast optical spectroscopy: Influence of morphology on relaxation processes. Physica B: Condensed Matter, 2009, 404, 3127-3130.	1.3	23
117	Terahertz radiation-induced sub-cycle field electron emission across a split-gap dipole antenna. Applied Physics Letters, 2015, 107, .	1.5	23
118	Single-layer terahertz metamaterials with bulk optical constants. Physical Review B, 2012, 85, .	1.1	22
119	Real-time tunable phase response and group delay in broadside coupled split-ring resonators. Physical Review B, 2019, 99, .	1.1	22
120	Interlayer magnetophononic coupling in MnBi ₂ Te ₄ . Nature Communications, 2022, 13, 1929.	5.8	22
121	An air-spaced terahertz metamaterial perfect absorber. Sensors and Actuators A: Physical, 2018, 280, 303-308.	2.0	21
122	Amorphous silicon nitride films of different composition deposited at room temperature by pulsed glow discharge plasma immersion ion implantation and deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 2342-2346.	0.9	20
123	Phase inhomogeneities in the charge-orbital-ordered manganite Nd _{0.5} Sr through polaron dynamics. Physical Review B, 2007, 76, .	1.1	20
124	Structural control of metamaterial oscillator strength and electric field enhancement at terahertz frequencies. Applied Physics Letters, 2014, 105, .	1.5	20
125	Ultrafast carrier dynamics in an InAs/InGaAs quantum dots-in-a-well heterostructure. Optics Express, 2008, 16, 1165.	1.7	19
126	Extremely Thin Metamaterial as Slab Waveguide at Terahertz Frequencies. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 441-449.	2.0	19

#	ARTICLE	IF	CITATIONS
127	Excimer Model for Photoluminescence in Single-Crystal C60. The Journal of Physical Chemistry, 1996, 100, 2854-2861.	2.9	18
128	C60 Triplet Lifetimes: Vibrational Energy Dependence from 0 to 80,000 cm ⁻¹ . The Journal of Physical Chemistry, 1995, 99, 11306-11308.	2.9	17
129	The role of trapped Ar atoms in the mechanical properties of boron carbide films deposited by dc-magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1639-1643.	0.9	17
130	Spin-dependent polaron formation dynamics in $\text{Eu}_{0.75}\text{Mn}_{0.25}\text{O}$ by femtosecond pump-probe spectroscopy. Physical Review B, 2015, 91, .	1.1	17
131	High-purity vapor phase purification of C60. Applied Physics Letters, 1994, 65, 374-376.	1.5	16
132	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. Analytical and Bioanalytical Chemistry, 2009, 395, 315-322.	1.9	16
133	External modulators for TeraHertz Quantum Cascade Lasers based on electrically-driven active metamaterials. Metamaterials, 2010, 4, 83-88.	2.2	16
134	Dynamics of a Persistent Insulator-to-Metal Transition in Strained Manganite Films. Physical Review Letters, 2019, 123, 267201.	2.9	16
135	Photoluminescence spectra of epitaxial single crystal C60. Chemical Physics Letters, 1995, 242, 592-597.	1.2	15
136	Role of intericosahedral chains on the hardness of sputtered boron carbide films. Applied Physics Letters, 2004, 84, 4173-4175.	1.5	15
137	Decoupling crossover in asymmetric broadside coupled split-ring resonators at terahertz frequencies. Physical Review B, 2013, 88, .	1.1	15
138	Terahertz saturable absorption in superconducting metamaterials. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2649.	0.9	15
139	Influence of spin and orbital fluctuations on Mott-Hubbard exciton dynamics in LaVO_3 thin films. Physical Review B, 2020, 102, .	1.1	15
140	Ultrafast Enhancement of Ferromagnetic Spin Exchange Induced by Ligand-to-Metal Charge Transfer. Physical Review Letters, 2020, 125, 197203.	2.9	15
141	Ultrathin Terahertz Triple-Band Metamaterial Absorbers: Consideration of Interlayer Coupling. Physical Review Applied, 2020, 14, .	1.5	15
142	On-demand terahertz surface wave generation with microelectromechanical-system-based metasurface. Optica, 2022, 9, 17.	4.8	15
143	Broadband electrically tunable VO_2 Metamaterial terahertz switch with suppressed reflection. Microwave and Optical Technology Letters, 2020, 62, 2782-2790.	0.9	14
144	Nanotextured Dynamics of a Light-Induced Phase Transition in VO_2 . Nano Letters, 2021, 21, 9052-9060.	4.5	14

#	ARTICLE	IF	CITATIONS
145	Orientation Dependent Far-Infrared Terahertz Absorptions in Single Crystal Pentaerythritol Tetranitrate (PETN) Using Terahertz Time-Domain Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 439-442.	1.1	13
146	On-chip terahertz modulation and emission with integrated graphene junctions. Applied Physics Letters, 2020, 116, .	1.5	13
147	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. Nano Letters, 2021, 21, 308-316.	4.5	13
148	Evidence for linelike vortex liquid phase in $Tl_2Ba_2CaCu_2O_8$ probed by the Josephson plasma resonance. Physical Review B, 2002, 66, .	1.1	12
149	Role of boron for defect evolution in hydrogen-implanted silicon. Applied Physics Letters, 2003, 83, 3042-3044.	1.5	12
150	Photoinduced Conductivity Dynamics Studies of MgB ₂ Thin Films. International Journal of Modern Physics B, 2003, 17, 3675-3681.	1.0	12
151	Coupled Charge-Spin Dynamics of the Magnetoresistive Pyrochlore $Tl_2Mn_2O_7$ Probed Using Ultrafast Midinfrared Spectroscopy. Physical Review Letters, 2005, 95, 267404.	2.9	12
152	Unambiguous chirp characterization using modified-spectrum auto-interferometric correlation and pulse spectrum. Optics Express, 2006, 14, 8890.	1.7	12
153	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial. Advanced Optical Materials, 2021, 9, 2101215.	3.6	12
154	Spectral interferometric coherent Raman imaging. Optics Express, 2005, 13, 7672.	1.7	11
155	Optically induced lattice dynamics probed with ultrafast x-ray diffraction. Physical Review B, 2008, 77, .	1.1	11
156	The effect of interfacial roughness on the normal incidence bandgap of one-dimensional photonic crystals. Optics Express, 2005, 13, 8380.	1.7	10
157	Flexible terahertz metamaterials: towards a terahertz metamaterial invisible cloak. , 2008, , .		10
158	Comment on "Photoinduced Changes of Reflectivity in Single Crystals of $YBa_2Cu_3O_{6.5}$ (Ortho II)". Physical Review Letters, 2003, 91, 169701; author reply 169702.	2.9	9
159	Growth of thin Fe(001) films for terahertz emission experiments. Applied Surface Science, 2007, 253, 6992-7003.	3.1	9
160	Time-resolved quasiparticle dynamics of the itinerant antiferromagnet $UPtGa$. Physical Review B, 2011, 84, .	1.1	9
161	Properties of dynamical electromagnetic metamaterials. Journal of Optics (United Kingdom), 2017, 19, 084003.	1.0	9
162	Strong Metasurface "Josephson Plasma Resonance Coupling in Superconducting $La_{2-x}Sr_xCuO_4$. Advanced Optical Materials, 2019, 7, 1900712.	3.6	9

#	ARTICLE	IF	CITATIONS
163	Generalized Fresnel-Floquet equations for driven quantum materials. <i>Physical Review B</i> , 2022, 105, .	1.1	9
164	Ultrafast quasiparticle dynamics in the correlated semimetal Ca ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2019, 99, .	1.1	8
165	Terahertz metamaterial devices. , 2007, , .		7
166	Ultrafast terahertz spectroscopy study of a Kondo insulating thin-film SmB_6 : Evidence for an emergent surface state. <i>Physical Review B</i> , 2018, 97, .	1.1	7
167	Boron-enhanced blistering and exfoliation in hydrogen-implanted SrTiO ₃ . <i>Journal of Applied Physics</i> , 2004, 96, 7045-7051.	1.1	6
168	Nonequilibrium Superconductivity Probed by Time-Resolved Far-Infrared Conductivity Dynamics: Comparison Between MgB ₂ and YBa ₂ Cu ₃ O ₇ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2004, 17, 143-149.	0.5	6
169	Dynamic Coupling-Decoupling Crossover in the Current-Driven Vortex State in Tl ₂ Ba ₂ CaCu ₂ O ₈ Probed by the Josephson Plasma Resonance. <i>Physical Review Letters</i> , 2006, 97, 237001.	2.9	6
170	Dynamics of broken symmetry. <i>Nature Physics</i> , 2010, 6, 639-640.	6.5	6
171	Magnetoelastic coupling to coherent acoustic phonon modes in the ferrimagnetic insulator Gd ₂ TiO ₇ . <i>Physical Review B</i> , 2020, 102, .		
172	Ultrafast large dynamic range spectroscopy. <i>Optics Communications</i> , 1994, 110, 327-333.	1.0	5
173	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> , 2004, 22, 1223-1228.	0.9	5
174	Tailoring the Spectra of Terahertz Emission from CdTe and ZnTe Electro-Optic Crystals. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 202-204.	0.8	5
175	Nucleation and Growth Bottleneck in the Conductivity Recovery Dynamics of Nickelate Ultrathin Films. <i>Nano Letters</i> , 2020, 20, 7422-7428.	4.5	5
176	Split-Ring Resonator Enhanced Terahertz Antenna. , 2007, , .		5
177	Decoupling of static and dynamic criticality in a driven Mott insulator. <i>Communications Physics</i> , 2022, 5, .	2.0	5
178	Solvent Free High Purity Solid C ₆₀ : Optical Properties. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 256, 225-232.	0.3	4
179	Application of the homogenization approximation to rough one-dimensional photonic crystals. <i>Optics Letters</i> , 2005, 30, 2930.	1.7	4
180	Three-dimensional magnetic terahertz metamaterials using a multilayer electroplating technique. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 045011.	1.5	4

#	ARTICLE	IF	CITATIONS
181	Getting current pulses under control. Nature Nanotechnology, 2013, 8, 232-233.	15.6	4
182	Dynamical Electric Metamaterial Response at Terahertz Frequencies. Springer Series in Chemical Physics, 2007, , 642-644.	0.2	4
183	Enhanced terahertz detection via ErAs:GaAs nanoisland superlattices. , 2006, , .		3
184	Terahertz Metamaterials on Thin Silicon Nitride Membranes. Materials Research Society Symposia Proceedings, 2008, 1077, 71801.	0.1	3
185	ELECTROMAGNETIC COMPOSITE-BASED REFLECTING TERAHERTZ WAVEPLATES. International Journal of High Speed Electronics and Systems, 2011, 20, 583-588.	0.3	3
186	An air-spacer terahertz metamaterial perfect absorber for sensing and detection applications. , 2017, , .		3
187	Optically Tunable All-Dielectric Broadband Terahertz Metamaterial Perfect Absorber. , 2019, , .		3
188	Structural tuning of nonlinear terahertz metamaterials using broadside coupled split ring resonators. AIP Advances, 2021, 11, .	0.6	3
189	Josephson plasma resonance in Tl ₂ Ba ₂ CaCu ₂ O ₈ in a magnetic field measured using THz spectroscopy. Physica B: Condensed Matter, 2002, 312-313, 84-85.	1.3	2
190	Dynamical Metamaterials at Terahertz Frequencies. , 2006, , .		2
191	Terahertz metamaterials for active, tunable, and dynamic devices. , 2007, , .		2
192	Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region. , 2011, , .		2
193	Flexible, large-area metamaterials fabricated on thin silicon nitride membranes. , 2008, , .		2
194	Exciton dynamics in pentacene and tetracene studied using optical pump-probe spectroscopy. Springer Series in Chemical Physics, 2005, , 269-271.	0.2	1
195	Properties of Novel Terahertz Electric Metamaterials. , 2007, , .		1
196	Metamaterials for Novel Terahertz and Millimeter Wave Devices. , 2007, , .		1
197	Quasiparticles undressed. Nature Physics, 2008, 4, 14-15.	6.5	1
198	Three envelope approach for ultrafast pulse characterization in a pump-probe experiment. Applied Physics Letters, 2008, 92, 061111.	1.5	1

#	ARTICLE	IF	CITATIONS
199	Effect of nonuniform continuum density of states on a Fano resonance in semiconductor quantum wells. Physical Review B, 2009, 80, .	1.1	1
200	Terahertz metamaterials. , 2009, , .		1
201	Metamaterial based terahertz detector. , 2011, , .		1
202	A stamp of quality. Nature Nanotechnology, 2011, 6, 396-397.	15.6	1
203	Terahertz polarimetry based on metamaterial devices. , 2012, , .		1
204	Flexible and tunable metamaterials at terahertz frequencies. , 2013, , .		1
205	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. Microscopy and Microanalysis, 2015, 21, 1415-1416.	0.2	1
206	Visualization of guided and leaky wave behaviors in an indium tin oxide metallic slab waveguide. Optics Express, 2015, 23, 14876.	1.7	1
207	Integrated Air Spaced Terahertz Metamaterial Absorber with High Quality Factor. , 2019, , .		1
208	Quasiparticle relaxation dynamics in URu_2Si_2 single crystals. Physical Review B, 2019, 99, .		0
209	3D Stand-up Metamaterials With A Purely Magnetic Resonance At Terahertz Frequencies. , 2010, , .		1
210	Photoluminescence spectra of epitaxial single-crystal C 60 : an excimer model. , 1995, , .		0
211	Ultrafast Conductivity Dynamics Of Novel Electronic Materials. Optics and Photonics News, 2001, 12, 65.	0.4	0
212	Ultrafast dynamics of the Itinerant Antiferromagnet UNiGa5. Materials Research Society Symposia Proceedings, 2005, 893, 1.	0.1	0
213	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.	0.9	0
214	Time resolved conductivity dynamics in vanadium dioxide. , 2006, , .		0
215	Giant magnetoelastic effect in multiferroic Ba _{0.6} Sr _{1.4} Zn ₂ Fe ₁₂ O ₂₂ . , 2007, , .		0
216	Active metamaterials: A novel approach to manipulate terahertz waves. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
217	Metamaterials and their THz applications. , 2007, , .		0
218	Dynamic Coupling-decoupling Crossover in the Current-driven Vortex State in $Tl_2Ba_2CaCuO_8$ Probed by the Josephson Plasma Resonance. , 2007, , .		0
219	Opto-electronic control of terahertz metamaterials. , 2007, , .		0
220	Electrical Control of Terahertz Metamaterials. , 2007, , .		0
221	Probing nanoscale inhomogeneities in transition metal oxides with ultrafast mid-infrared spectroscopy. Physica B: Condensed Matter, 2008, 403, 1401-1403.	1.3	0
222	Metamaterials for the terahertz gap. , 2008, , .		0
223	Flexible Wide Angle Terahertz Resonant Absorber Based On Perfectly Impedance Matched Metamaterials. , 2009, , .		0
224	Dynamic investigations of multiferroics: Terahertz and beyond. Journal of Physics: Conference Series, 2009, 148, 012037.	0.3	0
225	Silk Metamaterials: Metamaterial Silk Composites at Terahertz Frequencies (Adv. Mater. 32/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	0
226	A tunable 3D terahertz metamaterial. , 2011, , .		0
227	Direct measurement of the THz near-magnetic field of metamaterial elements. , 2011, , .		0
228	Large strain-induced conductivity anisotropy in VO_2 thin films, probed by THz spectroscopy. , 2011, , .		0
229	Broadband tunable 3D metamaterials at terahertz frequencies. , 2011, , .		0
230	Bottom-up; three-dimensional metamaterials at terahertz frequencies. , 2011, , .		0
231	Terahertz Metamaterials: Recent Developments and New Opportunities. , 2011, , .		0
232	Metamaterial-based Terahertz Detectors. , 2013, , .		0
233	An optically tunable terahertz perfect absorber. , 2013, , .		0
234	Metamaterial-Enhanced Nonlinear Responses in Semiconductors as a THz Detection Platform. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
235	Electric and Magnetic Responses in Nonlinear Terahertz Metamaterials. , 2014, , .		0
236	THz materials discovery and integration: The search for novel functionality. , 2015, , .		0
237	A High Sensitivity Microfluidic Channel Enabled Terahertz Metamaterial Absorber For Sensing And Detectio. , 2019, , .		0
238	Ultrafast THz conductivity dynamics in colossal magnetoresistance manganites. , 2000, , .		0
239	Observation of the Josephson Plasma Resonance in Tl ₂ Ba ₂ CaCu ₂ O ₈ using THz Spectroscopy. , 2000, , .		0
240	Observation of the Josephson Plasma Resonance in Tl ₂ Ba ₂ CaCu ₂ O ₈ using THz Spectroscopy. Springer Series in Chemical Physics, 2001, , 431-433.	0.2	0
241	Mixed-phase dynamics in colossal magnetoresistive manganites. , 2002, , .		0
242	Carrier Relaxation Dynamics in Heavy Fermion Compounds. Springer Series in Chemical Physics, 2003, , 319-321.	0.2	0
243	Far-Infrared Carrier Dynamics in Superconducting MgB ₂ . Springer Series in Chemical Physics, 2003, , 389-391.	0.2	0
244	Ultrafast mid-infrared dynamics in the colossal magnetoresistance pyrochlore Tl ₂ Mn ₂ O ₇ . , 2004, , .		0
245	Carrier Dynamics in Self-Assembled ErAs Nanoislands Measured by Optical Pump-THz Probe Spectroscopy. , 2005, , .		0
246	Ultrafast Mid-Infrared Dynamics in the Colossal Magnetoresistance Pyrochlore Tl ₂ Mn ₂ O ₇ . Springer Series in Chemical Physics, 2005, , 313-315.	0.2	0
247	Terahertz emission spectroscopy of ultrafast demagnetization in iron. , 2005, , .		0
248	Dynamic coupling-decoupling crossover in the current-driven vortex-state in Tl ₂ Ba ₂ CaCu ₂ O ₈ studied using terahertz time-domain spectroscopy. Springer Series in Chemical Physics, 2005, , 325-327.	0.2	0
249	Dynamically Frequency Tunable Terahertz Metamaterials. , 2007, , .		0
250	Novel Terahertz Electric Metamaterials. , 2007, , .		0
251	Electronically switchable extraordinary terahertz transmission through metallic hole arrays fabricated on a semiconductor substrate. , 2008, , .		0
252	Flexible Terahertz Metamaterials On Polyimide Substrates. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
253	Dynamic Metamaterials at Terahertz Frequencies. Springer Series in Chemical Physics, 2009, , 645-647.	0.2	0
254	A Broadband Terahertz Metamaterial Electrical Modulator. , 2009, , .		0
255	External Modulation of Terahertz Quantum Cascade Lasers Using Electrically-Driven Active Metamaterials. , 2009, , .		0
256	Conductivity Dynamics in the Correlated Metallic State of V2O3. , 2010, , .		0
257	Tunable Terahertz 3D Metamaterials. , 2011, , .		0
258	The Optical Properties of Metals. , 2011, , 79-108.		0
259	Structurally Tunable Nonlinear Terahertz Metamaterials. , 2020, , .		0
260	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.6	0
261	Ultrafast broadband tuning of InAs THz plasmonic arrays. , 2021, , .		0
262	Optically tunable broadband terahertz dielectric membrane metasurface absorber. , 2021, , .		0
263	THz Strong Coupling Between Metamaterials and Superconducting Josephson Plasmons. , 2021, , .		0