

Igal Brener

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214
papers

11,464
citations

54
h-index

102
g-index

287
ext. papers

13,913
ext. citations

5.6
avg, IF

6.13
L-index

#	Paper	IF	Citations
214	High-Efficiency Dielectric Huygens Surfaces. <i>Advanced Optical Materials</i> , 2015 , 3, 813-820	8.1	772
213	Tailoring directional scattering through magnetic and electric resonances in subwavelength silicon nanodisks. <i>ACS Nano</i> , 2013 , 7, 7824-32	16.7	754
212	Enhanced third-harmonic generation in silicon nanoparticles driven by magnetic response. <i>Nano Letters</i> , 2014 , 14, 6488-92	11.5	383
211	Thin-film sensing with planar terahertz metamaterials: sensitivity and limitations. <i>Optics Express</i> , 2008 , 16, 1786-95	3.3	372
210	Spectrally selective chiral silicon metasurfaces based on infrared Fano resonances. <i>Nature Communications</i> , 2014 , 5, 3892	17.4	313
209	Realizing optical magnetism from dielectric metamaterials. <i>Physical Review Letters</i> , 2012 , 108, 097402	7.4	311
208	Polarization-Independent Silicon Metadevices for Efficient Optical Wavefront Control. <i>Nano Letters</i> , 2015 , 15, 5369-74	11.5	283
207	1.5- μ m-band wavelength conversion based on cascaded second-order nonlinearity in LiNbO ₃ waveguides. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 653-655	2.2	267
206	Active tuning of all-dielectric metasurfaces. <i>ACS Nano</i> , 2015 , 9, 4308-15	16.7	263
205	THz near-field imaging. <i>Optics Communications</i> , 1998 , 150, 22-26	2	251
204	Resonantly Enhanced Second-Harmonic Generation Using III-V Semiconductor All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2016 , 16, 5426-32	11.5	234
203	A spatial light modulator for terahertz beams. <i>Applied Physics Letters</i> , 2009 , 94, 213511	3.4	209
202	Efficient Polarization-Insensitive Complex Wavefront Control Using Huygens Metasurfaces Based on Dielectric Resonant Meta-atoms. <i>ACS Photonics</i> , 2016 , 3, 514-519	6.3	193
201	Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces. <i>Nature Communications</i> , 2017 , 8, 17	17.4	191
200	Multiple-channel wavelength conversion by use of engineered quasi-phase-matching structures in LiNbO ₃ waveguides. <i>Optics Letters</i> , 1999 , 24, 1157-9	3	185
199	Optical magnetic mirrors without metals. <i>Optica</i> , 2014 , 1, 250	8.6	159
198	Electrically tunable all-dielectric optical metasurfaces based on liquid crystals. <i>Applied Physics Letters</i> , 2017 , 110, 071109	3.4	154

197	Broken Symmetry Dielectric Resonators for High Quality Factor Fano Metasurfaces. <i>ACS Photonics</i> , 2016 , 3, 2362-2367	6.3	154
196	Femtosecond optical polarization switching using a cadmium oxide-based perfect absorber. <i>Nature Photonics</i> , 2017 , 11, 390-395	33.9	152
195	Observation of Fano resonances in all-dielectric nanoparticle oligomers. <i>Small</i> , 2014 , 10, 1985-90	11	148
194	Coherent control of terahertz charge oscillations in a coupled quantum well using phase-locked optical pulses. <i>Physical Review B</i> , 1993 , 48, 4903-4906	3.3	148
193	Terahertz emission in single quantum wells after coherent optical excitation of light hole and heavy hole excitons. <i>Physical Review Letters</i> , 1992 , 69, 3800-3803	7.4	148
192	Theory of epsilon-near-zero modes in ultrathin films. <i>Physical Review B</i> , 2015 , 91,	3.3	146
191	Epsilon-near-zero strong coupling in metamaterial-semiconductor hybrid structures. <i>Nano Letters</i> , 2013 , 13, 5391-6	11.5	139
190	Single-mode GaN nanowire lasers. <i>Optics Express</i> , 2012 , 20, 17873-9	3.3	132
189	Coherent terahertz radiation detection: Direct comparison between free-space electro-optic sampling and antenna detection. <i>Applied Physics Letters</i> , 1998 , 73, 444-446	3.4	121
188	An all-dielectric metasurface as a broadband optical frequency mixer. <i>Nature Communications</i> , 2018 , 9, 2507	17.4	121
187	Enhanced Second-Harmonic Generation Using Broken Symmetry III-V Semiconductor Fano Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 1685-1690	6.3	109
186	Nonlinear Interference and Tailorable Third-Harmonic Generation from Dielectric Oligomers. <i>ACS Photonics</i> , 2015 , 2, 578-582	6.3	99
185	Microneedle-based transdermal sensor for on-chip potentiometric determination of K(+). <i>Advanced Healthcare Materials</i> , 2014 , 3, 876-81	10.1	91
184	Design and performance of singular electric field terahertz photoconducting antennas. <i>Applied Physics Letters</i> , 1997 , 71, 2076-2078	3.4	91
183	Nonpolar InGaN/GaN Core-Shell Single Nanowire Lasers. <i>Nano Letters</i> , 2017 , 17, 1049-1055	11.5	89
182	Shaping Photoluminescence Spectra with Magnetoelectric Resonances in All-Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 172-177	6.3	89
181	Strong coupling between nanoscale metamaterials and phonons. <i>Nano Letters</i> , 2011 , 11, 2104-8	11.5	89
180	Micrometer-scale cubic unit cell 3D metamaterial layers. <i>Advanced Materials</i> , 2010 , 22, 5053-7	24	89

179	Coherent double-pulse control of quantum beats in a coupled quantum well. <i>Physical Review B</i> , 1993 , 48, 11043-11050	3.3	89
178	Directional perfect absorption using deep subwavelength low-permittivity films. <i>Physical Review B</i> , 2014 , 90,	3.3	88
177	Terahertz near-field microscopy based on a collection mode detector. <i>Applied Physics Letters</i> , 2000 , 77, 3496-3498	3.4	86
176	Phased-array sources based on nonlinear metamaterial nanocavities. <i>Nature Communications</i> , 2015 , 6, 7667	17.4	85
175	Collection-mode near-field imaging with 0.5-THz pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001 , 7, 600-607	3.8	81
174	Metamaterials for THz polarimetric devices. <i>Optics Express</i> , 2009 , 17, 773-83	3.3	73
173	High-harmonic generation from an epsilon-near-zero material. <i>Nature Physics</i> , 2019 , 15, 1022-1026	16.2	69
172	Light-Emitting Metasurfaces: Simultaneous Control of Spontaneous Emission and Far-Field Radiation. <i>Nano Letters</i> , 2018 , 18, 6906-6914	11.5	69
171	Terahertz emission from electric field singularities in biased semiconductors. <i>Optics Letters</i> , 1996 , 21, 1924-6	3	64
170	III-V Semiconductor Nanoresonators: A New Strategy for Passive, Active, and Nonlinear All-Dielectric Metamaterials. <i>Advanced Optical Materials</i> , 2016 , 4, 1457-1462	8.1	64
169	Growth of Ga-face and N-face GaN films using ZnO Substrates. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1996 , 1, 1		62
168	Multipolar Coupling in Hybrid Metal-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2016 , 3, 349-353	6.3	62
167	Near-Field Mapping of Optical Modes on All-Dielectric Silicon Nanodisks. <i>ACS Photonics</i> , 2014 , 1, 794-798	6.3	58
166	Efficient wide-band and tunable midspan spectral inverter using cascaded nonlinearities in LiNbO ₃ waveguides. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 82-84	2.2	58
165	Terahertz electromagnetic radiation from quantum wells. <i>Applied Physics B: Lasers and Optics</i> , 1994 , 58, 249-259	1.9	57
164	Multistage dispersion compensator using ring resonators. <i>Optics Letters</i> , 1999 , 24, 1555-7	3	56
163	Fabrication of 3D metamaterial resonators using self-aligned membrane projection lithography. <i>Advanced Materials</i> , 2010 , 22, 3171-5	24	54
162	Coherent control of terahertz emission and carrier populations in semiconductor heterostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 2457	1.7	54

161	Metalorganic molecular beam epitaxy of InP, Ga _{0.47} In _{0.53} As, and GaAs with tertiarybutylarsine and tertiarybutylphosphine. <i>Applied Physics Letters</i> , 1990 , 56, 1448-1450	3-4	54
160	Huygens' Metasurfaces Enabled by Magnetic Dipole Resonance Tuning in Split Dielectric Nanoresonators. <i>Nano Letters</i> , 2017 , 17, 4297-4303	11.5	53
159	Nonresonant broadband funneling of light via ultrasubwavelength channels. <i>Physical Review Letters</i> , 2011 , 107, 163902	7-4	52
158	Single-mode lasing of GaN nanowire-pairs. <i>Applied Physics Letters</i> , 2012 , 101, 113106	3-4	52
157	High-resolution zero-dispersion wavelength mapping in single-mode fiber. <i>Optics Letters</i> , 1998 , 23, 152032		52
156	Pressure compression of CdSe nanoparticles into luminescent nanowires. <i>Science Advances</i> , 2017 , 3, e1602916	2.9	50
155	Photoconductive Terahertz Near-Field Detector with a Hybrid Nanoantenna Array Cavity. <i>ACS Photonics</i> , 2015 , 2, 1763-1768	6.3	48
154	Carrier Dynamics and Electro-Optical Characterization of High-Performance GaN/InGaN Core-Shell Nanowire Light-Emitting Diodes. <i>Scientific Reports</i> , 2018 , 8, 501	4-9	48
153	Second harmonic generation from metamaterials strongly coupled to intersubband transitions in quantum wells. <i>Applied Physics Letters</i> , 2014 , 104, 131104	3-4	48
152	Multi-colour nanowire photonic crystal laser pixels. <i>Scientific Reports</i> , 2013 , 3, 2982	4-9	48
151	Anisotropic optical properties of (110)-oriented quantum wells. <i>Physical Review B</i> , 1991 , 44, 1930-1933	3-3	48
150	Particle localization and phonon sidebands in GaAs/Al _x Ga _{1-x} As multiple quantum wells. <i>Physical Review B</i> , 1992 , 46, 7927-7930	3-3	46
149	Polarization-Dependent Second Harmonic Diffraction from Resonant GaAs Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 1786-1793	6.3	44
148	Near-field microscope probe for far infrared time domain measurements. <i>Applied Physics Letters</i> , 2000 , 77, 591-593	3-4	43
147	Generation of terahertz electromagnetic pulses from quantum-well structures. <i>IEEE Journal of Quantum Electronics</i> , 1994 , 30, 1478-1488	2	43
146	. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 261-273	2-5	42
145	Shallow quantum well excitons: 2D or 3D?. <i>Physical Review Letters</i> , 1993 , 70, 319-322	7-4	42
144	Experimental evidence of Bragg confinement of carriers in a quantum barrier. <i>Applied Physics Letters</i> , 1992 , 61, 949-951	3-4	41

143	Active tuning of mid-infrared metamaterials by electrical control of carrier densities. <i>Optics Express</i> , 2012 , 20, 1903-11	3-3	40
142	3 μm aperture probes for near-field terahertz transmission microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 011110	3-4	38
141	Nonlinear frequency conversion in optical nanoantennas and metasurfaces: materials evolution and fabrication. <i>Opto-Electronic Advances</i> , 2018 , 1, 18002101-18002112	6-5	38
140	Large-area metamaterials on thin membranes for multilayer and curved applications at terahertz and higher frequencies. <i>Applied Physics Letters</i> , 2009 , 94, 161113	3-4	37
139	Gain spectra and stimulated emission in epitaxial (In,Al) GaN thin films. <i>Applied Physics Letters</i> , 1996 , 69, 3384-3386	3-4	37
138	Active tuning of high-Q dielectric metasurfaces. <i>Applied Physics Letters</i> , 2017 , 111, 053102	3-4	36
137	A microfluidic system combining acoustic and dielectrophoretic particle preconcentration and focusing. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 645-652	8-5	36
136	High Quality Factor Toroidal Resonances in Dielectric Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1699-1707	6-3	35
135	Epsilon-Near-Zero Modes for Tailored Light-Matter Interaction. <i>Physical Review Applied</i> , 2015 , 4,	4-3	34
134	Repetitive excitation of charge oscillations in semiconductor heterostructures. <i>Applied Physics Letters</i> , 1993 , 63, 2213-2215	3-4	33
133	Doping tunable resonance: Toward electrically tunable mid-infrared metamaterials. <i>Applied Physics Letters</i> , 2010 , 96, 101111	3-4	32
132	ScAlMgO ₄ : an Oxide Substrate for GaN Epitaxy. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1996 , 1, 1		32
131	Nano-lithographically fabricated titanium dioxide based visible frequency three dimensional gap photonic crystal. <i>Optics Express</i> , 2007 , 15, 13049-57	3-3	31
130	Tunable metamaterials based on voltage controlled strong coupling. <i>Applied Physics Letters</i> , 2013 , 103, 263116	3-4	30
129	Transient GaAs Plasmonic Metasurfaces at Terahertz Frequencies. <i>ACS Photonics</i> , 2017 , 4, 15-21	6-3	29
128	Terahertz Detection with Perfectly-Absorbing Photoconductive Metasurface. <i>Nano Letters</i> , 2019 , 19, 2888-2896	11-5	29
127	Nanocomposite plasmonic fluorescence emitters with core/shell configurations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1561	1-7	29
126	Efficient infrared thermal emitters based on low-albedo polaritonic meta-surfaces. <i>Applied Physics Letters</i> , 2013 , 102, 211111	3-4	28

125	Interaction between metamaterial resonators and intersubband transitions in semiconductor quantum wells. <i>Applied Physics Letters</i> , 2011 , 98, 203103	3.4	28
124	Polarisation-insensitive wavelength converter based on cascaded nonlinearities in LiNbO ₃ waveguides. <i>Electronics Letters</i> , 2000 , 36, 66	1.1	28
123	Third-harmonic generation from Mie-type resonances of isolated all-dielectric nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	27
122	Towards an Integrated Microneedle Total Analysis Chip for Protein Detection. <i>Electroanalysis</i> , 2016 , 28, 1305-1310	3	27
121	Distributed feedback gallium nitride nanowire lasers. <i>Applied Physics Letters</i> , 2014 , 104, 041107	3.4	27
120	Efficient photoconductive terahertz detector with all-dielectric optical metasurface. <i>APL Photonics</i> , 2018 , 3, 051703	5.2	26
119	Quantum-size-controlled photoelectrochemical fabrication of epitaxial InGaN quantum dots. <i>Nano Letters</i> , 2014 , 14, 5616-20	11.5	25
118	Internal quantum efficiency and carrier dynamics in semipolar (2021) InGaN/GaN light-emitting diodes. <i>Optics Express</i> , 2017 , 25, 2178-2186	3.3	25
117	Electrically tunable infrared metamaterials based on depletion-type semiconductor devices. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 114013	1.7	25
116	Gold substrate-induced single-mode lasing of GaN nanowires. <i>Applied Physics Letters</i> , 2012 , 101, 221114	3.4	25
115	Modular MEMS-based optical cross-connect with large port-count. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1773-1775	2.2	24
114	Optical Strong Coupling between near-Infrared Metamaterials and Intersubband Transitions in III-Nitride Heterostructures. <i>ACS Photonics</i> , 2014 , 1, 906-911	6.3	23
113	Control of strong light-matter coupling using the capacitance of metamaterial nanocavities. <i>Nano Letters</i> , 2015 , 15, 1959-66	11.5	23
112	Near-infrared surface plasmon polariton dispersion control with hyperbolic metamaterials. <i>Optics Express</i> , 2013 , 21, 11107-14	3.3	23
111	Tunable all-optical time-slot-interchange and wavelength conversion using difference-frequency-generation and optical buffers. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 200-202	2.2	23
110	Virtual excitation of the Fermi-edge singularity in modulation-doped quantum wells. <i>Physical Review B</i> , 1995 , 51, 2005-2008	3.3	23
109	Electrostatic actuation of three-dimensional MEMS mirrors using sidewall electrodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 472-477	3.8	22
108	Tailoring the morphology and luminescence of GaN/InGaN core-shell nanowires using bottom-up selective-area epitaxy. <i>Nanotechnology</i> , 2017 , 28, 025202	3.4	21

107	All-optical tuning of symmetry protected quasi bound states in the continuum. <i>Applied Physics Letters</i> , 2019 , 115, 141103	3.4	21
106	Controlled Growth of Ordered III-Nitride Core/Shell Nanostructure Arrays for Visible Optoelectronic Devices. <i>Journal of Electronic Materials</i> , 2015 , 44, 1255-1262	1.9	21
105	Intrinsic polarization control in rectangular GaN nanowire lasers. <i>Nanoscale</i> , 2016 , 8, 5682-7	7.7	21
104	Doping-tunable thermal emission from plasmon polaritons in semiconductor epsilon-near-zero thin films. <i>Applied Physics Letters</i> , 2014 , 105, 131109	3.4	21
103	Electrodynamics modeling of strong coupling between a metasurface and intersubband transitions in quantum wells. <i>Physical Review B</i> , 2014 , 89,	3.3	21
102	Theory and modeling of electrically tunable metamaterial devices using inter-subband transitions in semiconductor quantum wells. <i>Optics Express</i> , 2012 , 20, 6584-97	3.3	21
101	160 Gbit/s wavelength shifting and phase conjugation using periodically poled LiNbO ₃ waveguide parametric converter. <i>Electronics Letters</i> , 2000 , 36, 1788	1.1	21
100	Near-field probing of Mie resonances in single TiO ₂ microspheres at terahertz frequencies. <i>Optics Express</i> , 2014 , 22, 23034-42	3.3	20
99	Effect of thin silicon dioxide layers on resonant frequency in infrared metamaterials. <i>Optics Express</i> , 2010 , 18, 1085-90	3.3	20
98	THz radiation from coherent population changes in quantum wells. <i>Physical Review B</i> , 1994 , 49, 4668-4672	3.3	20
97	Stability and bandwidth enhancement of difference frequency generation (DFG)-based wavelength conversion by pump detuning. <i>Electronics Letters</i> , 1999 , 35, 978	1.1	19
96	Nonlinear optical study of the Fermi edge singularity: differences from atomic excitons in the virtual excitation regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 1313	1.7	19
95	Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid at Lithographically-Defined 3D Graphene Electrodes. <i>Electroanalysis</i> , 2014 , 26, 52-56	3	18
94	Polarimetry Using Graphene-Integrated Anisotropic Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 4283-4288	6.3	18
93	Realization of tellurium-based all dielectric optical metamaterials using a multi-cycle deposition-etch process. <i>Applied Physics Letters</i> , 2013 , 102, 161905	3.4	17
92	Chemoselective gas sensors based on plasmonic nanohole arrays. <i>Optical Materials Express</i> , 2012 , 2, 1655.6		17
91	Refractive index sensing with Fano resonances in silicon oligomers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	16
90	Enhanced optical nonlinearities in the near-infrared using III-nitride heterostructures coupled to metamaterials. <i>Applied Physics Letters</i> , 2015 , 107, 151108	3.4	16

89	Phase resolved near-field mode imaging for the design of frequency-selective surfaces. <i>Optics Express</i> , 2012 , 20, 11986-93	3.3	16
88	Terahertz near-field imaging. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3727-34	3.8	16
87	Continuous and dynamic spectral tuning of single nanowire lasers with subnanometer resolution using hydrostatic pressure. <i>Nanoscale</i> , 2015 , 7, 9581-8	7.7	15
86	Quantum-Dot-Based Solid-State Lighting With Electric-Field-Tunable Chromaticity. <i>Journal of Display Technology</i> , 2013 , 9, 419-426		15
85	Solitary Oxygen Dopant Emission from Carbon Nanotubes Modified by Dielectric Metasurfaces. <i>ACS Nano</i> , 2017 , 11, 6431-6439	16.7	14
84	Polarization control in GaN nanowire lasers. <i>Optics Express</i> , 2014 , 22, 19198-203	3.3	14
83	Annealing of Cd-implanted GaAs: Defect removal, lattice site occupation, and electrical activation. <i>Journal of Applied Physics</i> , 1993 , 73, 4248-4256	2.5	14
82	Frequency Conversion in a Time-Variant Dielectric Metasurface. <i>Nano Letters</i> , 2020 , 20, 7052-7058	11.5	14
81	The Role of Liquid Ink Transport in the Direct Placement of Quantum Dot Emitters onto Sub-Micrometer Antennas by Dip-Pen Nanolithography. <i>Small</i> , 2018 , 14, e1801503	11	14
80	Annular-Shaped Emission from Gallium Nitride Nanotube Lasers. <i>ACS Photonics</i> , 2015 , 2, 1025-1029	6.3	13
79	Near-Field Spectroscopy and Imaging of Subwavelength Plasmonic Terahertz Resonators. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 382-388	3.4	13
78	Probing terahertz surface plasmon waves in graphene structures. <i>Applied Physics Letters</i> , 2013 , 103, 111105	10.5	13
77	High-Q terahertz Fano resonance with extraordinary transmission in concentric ring apertures. <i>Optics Express</i> , 2014 , 22, 3747-53	3.3	13
76	External modulators for TeraHertz Quantum Cascade Lasers based on electrically-driven active metamaterials. <i>Metamaterials</i> , 2010 , 4, 83-88		13
75	All-optical switching of an epsilon-near-zero plasmon resonance in indium tin oxide. <i>Nature Communications</i> , 2021 , 12, 1017	17.4	13
74	Energy Frontier Research Center for Solid-State Lighting Science: Exploring New Materials Architectures and Light Emission Phenomena. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13330-13345	3.8	12
73	Cascaded (2) wavelength converter in LiNbO3 waveguides with counter-propagating beams. <i>Electronics Letters</i> , 1999 , 35, 1155	1.1	12
72	Low-Power Absorption Saturation in Semiconductor Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 2797-2806	6.3	11

71	Broadband and Efficient Second-Harmonic Generation from a Hybrid Dielectric Metasurface/Semiconductor Quantum-Well Structure. <i>ACS Photonics</i> , 2019 , 6, 1458-1465	6.3	11
70	Polarization-dependent photocurrent enhancement in metamaterial-coupled quantum dots-in-a-well infrared detectors. <i>Optics Communications</i> , 2014 , 312, 31-34	2	10
69	Perfectly absorbing dielectric metasurfaces for photodetection. <i>APL Photonics</i> , 2020 , 5, 101304	5.2	10
68	Detection of internal fields in double-metal terahertz resonators. <i>Applied Physics Letters</i> , 2017 , 110, 061109	3.4	9
67	Terahertz Driven Amplification of Coherent Optical Phonons in GaAs Coupled to a Metasurface. <i>Physical Review Letters</i> , 2019 , 122, 107402	7.4	9
66	Difference-Frequency Generation in Polaritonic Intersubband Nonlinear Metasurfaces. <i>Advanced Optical Materials</i> , 2018 , 6, 1800681	8.1	9
65	Label-Free Plasmonic Immunosensing for Plasmodium in a Whole Blood Lysate. <i>IEEE Sensors Journal</i> , 2014 , 14, 1399-1404	4	9
64	Reduction of cross-phase modulation-induced impairments in long-haul WDM telecommunication systems via spectral inversion. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 677-679	2.2	9
63	Localized and extended exciton states in narrow GaAs/AlGaAs quantum wells. <i>Superlattices and Microstructures</i> , 1989 , 5, 223-226	2.8	9
62	Fabrication of Hollow Metal Microneedle Arrays Using a Molding and Electroplating Method. <i>MRS Advances</i> , 2019 , 4, 1417-1426	0.7	8
61	Multipolar second harmonic generation in a symmetric nonlinear metamaterial. <i>Scientific Reports</i> , 2017 , 7, 8101	4.9	8
60	Decay times of excitons in lattice-matched InGaAs/InP single quantum wells. <i>Applied Physics Letters</i> , 1991 , 58, 965-967	3.4	8
59	Observation of Intersubband Polaritons in a Single Nanoantenna Using Nano-FTIR Spectroscopy. <i>Nano Letters</i> , 2019 , 19, 4620-4626	11.5	7
58	Low dissipation spectral filtering using a field-effect tunable III-V hybrid metasurface. <i>Applied Physics Letters</i> , 2018 , 113, 061108	3.4	7
57	Characterization of an active metasurface using terahertz ellipsometry. <i>Applied Physics Letters</i> , 2017 , 111, 191101	3.4	7
56	Defect-assisted plasmonic crystal sensor. <i>Optics Letters</i> , 2013 , 38, 2569-71	3	7
55	Interchannel cross talk caused by pump depletion in periodically poled LiNbO ₃ waveguide wavelength converters. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 849	1.7	7
54	Splitting of magnetic dipole modes in anisotropic TiO ₂ micro-spheres. <i>Laser and Photonics Reviews</i> , 2016 , 10, 681-687	8.3	7

53	Diagnostic Devices: Microneedle-Based Transdermal Sensor for On-Chip Potentiometric Determination of K ⁺ (Adv. Healthcare Mater. 6/2014). <i>Advanced Healthcare Materials</i> , 2014 , 3, 948-948	10.1	6
52	Mid-infrared time-domain spectroscopy system with carrier-envelope phase stabilization. <i>Applied Physics Letters</i> , 2013 , 103, 181111	3.4	6
51	Coherent Terahertz Radiation from Cavity Polaritons in GaAs/AlGaAs Microcavities. <i>Physica Status Solidi A</i> , 2000 , 178, 365-372		6
50	Resonant Raman scattering mediated by intrinsic excitons in Cd _{1-x} Zn _x Te (x~0.5). <i>Physical Review B</i> , 1989 , 40, 8313-8318	3.3	6
49	Resonant Raman scattering by acceptors in GaAs/Al _x Ga _{1-x} As multiple quantum wells: A probe of exciton localization. <i>Physical Review B</i> , 1990 , 42, 11035-11041	3.3	6
48	Spectral filtering using active metasurfaces compatible with narrow bandgap III-V infrared detectors. <i>Optics Express</i> , 2016 , 24, 21512-20	3.3	6
47	A metasurface optical modulator using voltage-controlled population of quantum well states. <i>Applied Physics Letters</i> , 2018 , 113, 201101	3.4	6
46	Spectrally-resolved internal quantum efficiency and carrier dynamics of semipolar [Formula: see text] core-shell triangular nanostripe GaN/InGaN LEDs. <i>Nanotechnology</i> , 2018 , 29, 235206	3.4	5
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44	Electrodeposited Iron as a Biocompatible Material for Microneedle Fabrication. <i>Electroanalysis</i> , 2015 , 27, 2239-2249	3	5
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37	Releasable infrared metamaterials. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 051806	1.3	4
36	Quenching of Infrared-Active Optical Phonons in Nanolayers of Crystalline Materials by Graphene Surface Plasmons. <i>ACS Photonics</i> , 2018 , 5, 2706-2711	6.3	4

35	Resonant raman scattering by acceptors and LO phonons in GaAs/AlGaAs multiple quantum wells. <i>Surface Science</i> , 1990 , 228, 180-183	1.8	3
34	Highly efficient terahertz photoconductive metasurface detectors operating at microwatt-level gate powers. <i>Optics Letters</i> , 2021 , 46, 3159-3162	3	3
33	Manipulation of quantum dot emission with semiconductor metasurfaces exhibiting magnetic quadrupole resonances. <i>Optics Express</i> , 2021 , 29, 5567-5579	3.3	3
32	CdSe infiltrated TiO ₂ based omnidirectional photonic crystals for visible light control. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008 , 6, 12-18	2.6	2
31	Cascaded Optical Nonlinearities in Dielectric Metasurfaces. <i>ACS Photonics</i> ,	6.3	2
30	Manipulation of Exciton Dynamics in Single-Layer WSe Using a Toroidal Dielectric Metasurface. <i>Nano Letters</i> , 2021 , 21, 9930-9938	11.5	2
29	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces 2020 ,		2
28	Ultrafast all-optical tuning of magnetic modes in GaAs metasurfaces 2017 ,		2
27	Dark-State-Based Low-Loss Metasurfaces with Simultaneous Electric and Magnetic Resonant Response. <i>ACS Photonics</i> , 2020 , 7, 241-248	6.3	2
26	Structural tuning of nonlinear terahertz metamaterials using broadside coupled split ring resonators. <i>AIP Advances</i> , 2021 , 11, 095103	1.5	2
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16	Intervallence-band photoinduced absorption in undoped GaAs/AlxGa1-xAs multiple-quantum-wells. <i>Superlattices and Microstructures</i> , 1990 , 7, 291-293	2.8	1
15	Demonstration of Dielectric Optical Magnetic Mirrors Using Phase-locked Infrared Time-domain Spectroscopy 2013 ,		1
14	All-Dielectric Intersubband Polaritonic Metasurface with Giant Second-Order Nonlinear Response 2020 ,		1
13	Tailoring Second Harmonic Diffraction in GaAs Metasurfaces via Crystal Orientation 2019 ,		1
12	An efficient terahertz detector based on an optical hybrid cavity 2018 ,		1
11	All-Optical Tuning of Fano Resonances in Broken Symmetry GaAs Metasurfaces 2019 ,		1
10	Nonlinear and ultrafast effects 2020 , 223-248		1
9	Ultrafast all-optical diffraction switching using semiconductor metasurfaces. <i>Applied Physics Letters</i> , 2021 , 118, 211105	3.4	1
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6	Resonant coupling to a dipole absorber inside a metamaterial: Anticrossing of the negative index response. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6O16-C6O20	1.3	0
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