

Igal Brener

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Terahertz Pulse Generation from GaAs Metasurfaces.. <i>ACS Photonics</i> , 2022 , 9, 1136-1142 | 6.3 | 2 |
| 213 | Manipulation of Exciton Dynamics in Single-Layer WSe Using a Toroidal Dielectric Metasurface. <i>Nano Letters</i> , 2021 , 21, 9930-9938 | 11.5 | 2 |
| 212 | Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces. <i>Optica</i> , 2021 , 8, 606 | 8.6 | 5 |
| 211 | Ultrafast all-optical diffraction switching using semiconductor metasurfaces. <i>Applied Physics Letters</i> , 2021 , 118, 211105 | 3.4 | 1 |
| 210 | Dielectric metasurfaces made from vertically oriented nanoresonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, C33 | 1.7 | 0 |
| 209 | Highly efficient terahertz photoconductive metasurface detectors operating at microwatt-level gate powers. <i>Optics Letters</i> , 2021 , 46, 3159-3162 | 3 | 3 |
| 208 | Strong Coupling in All-Dielectric Intersubband Polaritonic Metasurfaces. <i>Nano Letters</i> , 2021 , 21, 367-374 | 11.5 | 5 |
| 207 | All-optical switching of an epsilon-near-zero plasmon resonance in indium tin oxide. <i>Nature Communications</i> , 2021 , 12, 1017 | 17.4 | 13 |
| 206 | Manipulation of quantum dot emission with semiconductor metasurfaces exhibiting magnetic quadrupole resonances. <i>Optics Express</i> , 2021 , 29, 5567-5579 | 3.3 | 3 |
| 205 | Structural tuning of nonlinear terahertz metamaterials using broadside coupled split ring resonators. <i>AIP Advances</i> , 2021 , 11, 095103 | 1.5 | 2 |
| 204 | High Quality Factor Toroidal Resonances in Dielectric Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1699-1707 | 6.3 | 35 |
| 203 | Noninvasive Near-Field Spectroscopy of Single Subwavelength Complementary Resonators. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900254 | 8.3 | 1 |
| 202 | All-Dielectric Intersubband Polaritonic Metasurface with Giant Second-Order Nonlinear Response 2020 , | | 1 |
| 201 | Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces 2020 , | | 2 |
| 200 | Dark-State-Based Low-Loss Metasurfaces with Simultaneous Electric and Magnetic Resonant Response. <i>ACS Photonics</i> , 2020 , 7, 241-248 | 6.3 | 2 |
| 199 | Nonlinear and ultrafast effects 2020 , 223-248 | | 1 |
| 198 | Perfectly absorbing dielectric metasurfaces for photodetection. <i>APL Photonics</i> , 2020 , 5, 101304 | 5.2 | 10 |

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| 197 | Frequency Conversion in a Time-Variant Dielectric Metasurface. <i>Nano Letters</i> , 2020 , 20, 7052-7058 | 11.5 | 14 |
| 196 | Low-Power Absorption Saturation in Semiconductor Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 2797-2806 | 6.3 | 11 |
| 195 | All-optical tuning of symmetry protected quasi bound states in the continuum. <i>Applied Physics Letters</i> , 2019 , 115, 141103 | 3.4 | 21 |
| 194 | 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 |
| 193 | Observation of Intersubband Polaritons in a Single Nanoantenna Using Nano-FTIR Spectroscopy. <i>Nano Letters</i> , 2019 , 19, 4620-4626 | 11.5 | 7 |
| 192 | Fabrication of Hollow Metal Microneedle Arrays Using a Molding and Electroplating Method. <i>MRS Advances</i> , 2019 , 4, 1417-1426 | 0.7 | 8 |
| 191 | Terahertz Driven Amplification of Coherent Optical Phonons in GaAs Coupled to a Metasurface. <i>Physical Review Letters</i> , 2019 , 122, 107402 | 7.4 | 9 |
| 190 | Terahertz Detection with Perfectly-Absorbing Photoconductive Metasurface. <i>Nano Letters</i> , 2019 , 19, 2888-2896 | 11.5 | 29 |
| 189 | High-harmonic generation from an epsilon-near-zero material. <i>Nature Physics</i> , 2019 , 15, 1022-1026 | 16.2 | 69 |
| 188 | Enhancing Absorption Bandwidth through Vertically Oriented Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2223 | 2.6 | 4 |
| 187 | Tailoring Second Harmonic Diffraction in GaAs Metasurfaces via Crystal Orientation 2019 , | | 1 |
| 186 | All-Optical Tuning of Fano Resonances in Broken Symmetry GaAs Metasurfaces 2019 , | | 1 |
| 185 | Efficient photoconductive terahertz detector with all-dielectric optical metasurface. <i>APL Photonics</i> , 2018 , 3, 051703 | 5.2 | 26 |
| 184 | Enhanced Second-Harmonic Generation Using Broken Symmetry III-V Semiconductor Fano Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 1685-1690 | 6.3 | 109 |
| 183 | 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 |
| 182 | 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 |
| 181 | Polarization-Dependent Second Harmonic Diffraction from Resonant GaAs Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 1786-1793 | 6.3 | 44 |
| 180 | Difference-Frequency Generation in Polaritonic Intersubband Nonlinear Metasurfaces. <i>Advanced Optical Materials</i> , 2018 , 6, 1800681 | 8.1 | 9 |

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|-----|--|------|-----|
| 179 | Low dissipation spectral filtering using a field-effect tunable III-V hybrid metasurface. <i>Applied Physics Letters</i> , 2018 , 113, 061108 | 3.4 | 7 |
| 178 | Precision Additive Nanofabrication: The Role of Liquid Ink Transport in the Direct Placement of Quantum Dot Emitters onto Sub-Micrometer Antennas by Dip-Pen Nanolithography (Small 31/2018). <i>Small</i> , 2018 , 14, 1870144 | 11 | |
| 177 | Mid-infrared second-harmonic generation in ultra-thin plasmonic metasurfaces without a full-metal backplane. <i>Applied Physics B: Lasers and Optics</i> , 2018 , 124, 1 | 1.9 | 5 |
| 176 | Nonlinear frequency conversion in optical nanoantennas and metasurfaces: materials evolution and fabrication. <i>Opto-Electronic Advances</i> , 2018 , 1, 18002101-18002112 | 6.5 | 38 |
| 175 | An efficient terahertz detector based on an optical hybrid cavity 2018 , | | 1 |
| 174 | A metasurface optical modulator using voltage-controlled population of quantum well states. <i>Applied Physics Letters</i> , 2018 , 113, 201101 | 3.4 | 6 |
| 173 | Intensity-dependent reflectance modulation of femtosecond laser pulses in GaAs nanocylinders with magnetic resonances. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012181 | 0.3 | 1 |
| 172 | Polarimetry Using Graphene-Integrated Anisotropic Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 4283-4288 | 6.3 | 18 |
| 171 | Light-Emitting Metasurfaces: Simultaneous Control of Spontaneous Emission and Far-Field Radiation. <i>Nano Letters</i> , 2018 , 18, 6906-6914 | 11.5 | 69 |
| 170 | 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 |
| 169 | An all-dielectric metasurface as a broadband optical frequency mixer. <i>Nature Communications</i> , 2018 , 9, 2507 | 17.4 | 121 |
| 168 | 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 |
| 167 | Nonpolar InGaN/GaN Core-Shell Single Nanowire Lasers. <i>Nano Letters</i> , 2017 , 17, 1049-1055 | 11.5 | 89 |
| 166 | Electrically tunable all-dielectric optical metasurfaces based on liquid crystals. <i>Applied Physics Letters</i> , 2017 , 110, 071109 | 3.4 | 154 |
| 165 | Refractive index sensing with Fano resonances in silicon oligomers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375, | 3 | 16 |
| 164 | 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 |
| 163 | Detection of internal fields in double-metal terahertz resonators. <i>Applied Physics Letters</i> , 2017 , 110, 061109 | 3.4 | 9 |
| 162 | Pressure compression of CdSe nanoparticles into luminescent nanowires. <i>Science Advances</i> , 2017 , 3, e1602916 | 16 | 50 |

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|-----|---|------|-----|
| 161 | Femtosecond optical polarization switching using a cadmium oxide-based perfect absorber. <i>Nature Photonics</i> , 2017 , 11, 390-395 | 33.9 | 152 |
| 160 | Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces. <i>Nature Communications</i> , 2017 , 8, 17 | 17.4 | 191 |
| 159 | Huygens' Metasurfaces Enabled by Magnetic Dipole Resonance Tuning in Split Dielectric Nanoresonators. <i>Nano Letters</i> , 2017 , 17, 4297-4303 | 11.5 | 53 |
| 158 | Solitary Oxygen Dopant Emission from Carbon Nanotubes Modified by Dielectric Metasurfaces. <i>ACS Nano</i> , 2017 , 11, 6431-6439 | 16.7 | 14 |
| 157 | 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 |
| 156 | Transient GaAs Plasmonic Metasurfaces at Terahertz Frequencies. <i>ACS Photonics</i> , 2017 , 4, 15-21 | 6.3 | 29 |
| 155 | Multipolar second harmonic generation in a symmetric nonlinear metamaterial. <i>Scientific Reports</i> , 2017 , 7, 8101 | 4.9 | 8 |
| 154 | Active tuning of high-Q dielectric metasurfaces. <i>Applied Physics Letters</i> , 2017 , 111, 053102 | 3.4 | 36 |
| 153 | Characterization of an active metasurface using terahertz ellipsometry. <i>Applied Physics Letters</i> , 2017 , 111, 191101 | 3.4 | 7 |
| 152 | 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 |
| 151 | Ultrafast all-optical tuning of magnetic modes in GaAs metasurfaces 2017 , | | 2 |
| 150 | Resonantly Enhanced Second-Harmonic Generation Using III-V Semiconductor All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2016 , 16, 5426-32 | 11.5 | 234 |
| 149 | Broken Symmetry Dielectric Resonators for High Quality Factor Fano Metasurfaces. <i>ACS Photonics</i> , 2016 , 3, 2362-2367 | 6.3 | 154 |
| 148 | Towards an Integrated Microneedle Total Analysis Chip for Protein Detection. <i>Electroanalysis</i> , 2016 , 28, 1305-1310 | 3 | 27 |
| 147 | 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 |
| 146 | Intrinsic polarization control in rectangular GaN nanowire lasers. <i>Nanoscale</i> , 2016 , 8, 5682-7 | 7.7 | 21 |
| 145 | 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 |
| 144 | Spectral filtering using active metasurfaces compatible with narrow bandgap III-V infrared detectors. <i>Optics Express</i> , 2016 , 24, 21512-20 | 3.3 | 6 |

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|-----|--|------|-----|
| 143 | Splitting of magnetic dipole modes in anisotropic TiO ₂ micro-spheres. <i>Laser and Photonics Reviews</i> , 2016 , 10, 681-687 | 8.3 | 7 |
| 142 | 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 |
| 141 | Dielectric Resonators: III-V Semiconductor Nanoresonators: A New Strategy for Passive, Active, and Nonlinear All-Dielectric Metamaterials (Advanced Optical Materials 10/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 1658-1658 | 8.1 | 1 |
| 140 | Multipolar Coupling in Hybrid Metal-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2016 , 3, 349-353 | 6.3 | 62 |
| 139 | Shaping Photoluminescence Spectra with Magnetolectric Resonances in All-Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 172-177 | 6.3 | 89 |
| 138 | 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 |
| 137 | Active tuning of all-dielectric metasurfaces. <i>ACS Nano</i> , 2015 , 9, 4308-15 | 16.7 | 263 |
| 136 | Phased-array sources based on nonlinear metamaterial nanocavities. <i>Nature Communications</i> , 2015 , 6, 7667 | 17.4 | 85 |
| 135 | Polarization-Independent Silicon Metadevices for Efficient Optical Wavefront Control. <i>Nano Letters</i> , 2015 , 15, 5369-74 | 11.5 | 283 |
| 134 | Annular-Shaped Emission from Gallium Nitride Nanotube Lasers. <i>ACS Photonics</i> , 2015 , 2, 1025-1029 | 6.3 | 13 |
| 133 | Nonlinear Interference and Tailorable Third-Harmonic Generation from Dielectric Oligomers. <i>ACS Photonics</i> , 2015 , 2, 578-582 | 6.3 | 99 |
| 132 | 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 |
| 131 | Part-Per-Trillion Level Detection of Microcystin-LR Using a Periodic Nanostructure. <i>IEEE Sensors Journal</i> , 2015 , 15, 1366-1371 | 4 | 4 |
| 130 | Photoconductive Terahertz Near-Field Detector with a Hybrid Nanoantenna Array Cavity. <i>ACS Photonics</i> , 2015 , 2, 1763-1768 | 6.3 | 48 |
| 129 | Epsilon-Near-Zero Modes for Tailored Light-Matter Interaction. <i>Physical Review Applied</i> , 2015 , 4, | 4.3 | 34 |
| 128 | Theory of epsilon-near-zero modes in ultrathin films. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 146 |
| 127 | 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 |
| 126 | Electrodeposited Iron as a Biocompatible Material for Microneedle Fabrication. <i>Electroanalysis</i> , 2015 , 27, 2239-2249 | 3 | 5 |

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| 125 | High-Efficiency Dielectric Huygens Surfaces. <i>Advanced Optical Materials</i> , 2015 , 3, 813-820 | 8.1 | 772 |
| 124 | Control of strong light-matter coupling using the capacitance of metamaterial nanocavities. <i>Nano Letters</i> , 2015 , 15, 1959-66 | 11.5 | 23 |
| 123 | Observation of Fano resonances in all-dielectric nanoparticle oligomers. <i>Small</i> , 2014 , 10, 1985-90 | 11 | 148 |
| 122 | Spectrally selective chiral silicon metasurfaces based on infrared Fano resonances. <i>Nature Communications</i> , 2014 , 5, 3892 | 17.4 | 313 |
| 121 | Enhanced third-harmonic generation in silicon nanoparticles driven by magnetic response. <i>Nano Letters</i> , 2014 , 14, 6488-92 | 11.5 | 383 |
| 120 | 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 |
| 119 | Quantum-size-controlled photoelectrochemical fabrication of epitaxial InGaN quantum dots. <i>Nano Letters</i> , 2014 , 14, 5616-20 | 11.5 | 25 |
| 118 | Distributed feedback gallium nitride nanowire lasers. <i>Applied Physics Letters</i> , 2014 , 104, 041107 | 3.4 | 27 |
| 117 | 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 |
| 116 | Near-Field Mapping of Optical Modes on All-Dielectric Silicon Nanodisks. <i>ACS Photonics</i> , 2014 , 1, 794-798 | 6.3 | 58 |
| 115 | Microneedle-based transdermal sensor for on-chip potentiometric determination of K(+). <i>Advanced Healthcare Materials</i> , 2014 , 3, 876-81 | 10.1 | 91 |
| 114 | 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 |
| 113 | High-Q terahertz Fano resonance with extraordinary transmission in concentric ring apertures. <i>Optics Express</i> , 2014 , 22, 3747-53 | 3.3 | 13 |
| 112 | Gallium Nitride Nanotube Lasers 2014 , | | 1 |
| 111 | Polarization control in GaN nanowire lasers. <i>Optics Express</i> , 2014 , 22, 19198-203 | 3.3 | 14 |
| 110 | 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 |
| 109 | Optical magnetic mirrors without metals. <i>Optica</i> , 2014 , 1, 250 | 8.6 | 159 |
| 108 | Label-Free Plasmonic Immunosensing for Plasmodium in a Whole Blood Lysate. <i>IEEE Sensors Journal</i> , 2014 , 14, 1399-1404 | 4 | 9 |

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| 107 | Second harmonic generation from metamaterials strongly coupled to intersubband transitions in quantum wells. <i>Applied Physics Letters</i> , 2014 , 104, 131104 | 3-4 | 48 |
| 106 | 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 |
| 105 | Directional perfect absorption using deep subwavelength low-permittivity films. <i>Physical Review B</i> , 2014 , 90, | 3-3 | 88 |
| 104 | Electrodynamic modeling of strong coupling between a metasurface and intersubband transitions in quantum wells. <i>Physical Review B</i> , 2014 , 89, | 3-3 | 21 |
| 103 | 3 rd aperture probes for near-field terahertz transmission microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 011110 | 3-4 | 38 |
| 102 | Polarization-dependent photocurrent enhancement in metamaterial-coupled quantum dots-in-a-well infrared detectors. <i>Optics Communications</i> , 2014 , 312, 31-34 | 2 | 10 |
| 101 | Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid at Lithographically-Defined 3D Graphene Electrodes. <i>Electroanalysis</i> , 2014 , 26, 52-56 | 3 | 18 |
| 100 | Quantum-Dot-Based Solid-State Lighting With Electric-Field-Tunable Chromaticity. <i>Journal of Display Technology</i> , 2013 , 9, 419-426 | | 15 |
| 99 | Tailoring directional scattering through magnetic and electric resonances in subwavelength silicon nanodisks. <i>ACS Nano</i> , 2013 , 7, 7824-32 | 16-7 | 754 |
| 98 | Epsilon-near-zero strong coupling in metamaterial-semiconductor hybrid structures. <i>Nano Letters</i> , 2013 , 13, 5391-6 | 11.5 | 139 |
| 97 | Probing terahertz surface plasmon waves in graphene structures. <i>Applied Physics Letters</i> , 2013 , 103, 111105 | 3-4 | 13 |
| 96 | Tunable metamaterials based on voltage controlled strong coupling. <i>Applied Physics Letters</i> , 2013 , 103, 263116 | 3-4 | 30 |
| 95 | Label-free plasmonic immunosensing for plasmodium in whole blood 2013 , | | 1 |
| 94 | 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 |
| 93 | Defect-assisted plasmonic sensing 2013 , | | 1 |
| 92 | Defect-assisted plasmonic crystal sensor. <i>Optics Letters</i> , 2013 , 38, 2569-71 | 3 | 7 |
| 91 | Near-infrared surface plasmon polariton dispersion control with hyperbolic metamaterials. <i>Optics Express</i> , 2013 , 21, 11107-14 | 3-3 | 23 |
| 90 | Efficient infrared thermal emitters based on low-albedo polaritonic meta-surfaces. <i>Applied Physics Letters</i> , 2013 , 102, 211111 | 3-4 | 28 |

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| 89 | Mid-infrared time-domain spectroscopy system with carrier-envelope phase stabilization. <i>Applied Physics Letters</i> , 2013 , 103, 181111 | 3.4 | 6 |
| 88 | Multi-colour nanowire photonic crystal laser pixels. <i>Scientific Reports</i> , 2013 , 3, 2982 | 4.9 | 48 |
| 87 | Demonstration of Dielectric Optical Magnetic Mirrors Using Phase-locked Infrared Time-domain Spectroscopy 2013 , | | 1 |
| 86 | Active tuning of mid-infrared metamaterials by electrical control of carrier densities. <i>Optics Express</i> , 2012 , 20, 1903-11 | 3.3 | 40 |
| 85 | Electrically tunable infrared metamaterials based on depletion-type semiconductor devices. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 114013 | 1.7 | 25 |
| 84 | Optical Manipulation with Plasmonic Beam Shaping Antenna Structures. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-6 | 0.5 | 1 |
| 83 | Realizing optical magnetism from dielectric metamaterials. <i>Physical Review Letters</i> , 2012 , 108, 097402 | 7.4 | 311 |
| 82 | 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 |
| 81 | Single-mode GaN nanowire lasers. <i>Optics Express</i> , 2012 , 20, 17873-9 | 3.3 | 132 |
| 80 | Chemoselective gas sensors based on plasmonic nanohole arrays. <i>Optical Materials Express</i> , 2012 , 2, 1655.6 | | 17 |
| 79 | Phase resolved near-field mode imaging for the design of frequency-selective surfaces. <i>Optics Express</i> , 2012 , 20, 11986-93 | 3.3 | 16 |
| 78 | Gold substrate-induced single-mode lasing of GaN nanowires. <i>Applied Physics Letters</i> , 2012 , 101, 221114 | 3.4 | 25 |
| 77 | Single-mode lasing of GaN nanowire-pairs. <i>Applied Physics Letters</i> , 2012 , 101, 113106 | 3.4 | 52 |
| 76 | Dynamic membrane projection lithography [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 962 | 2.6 | 1 |
| 75 | Nonresonant broadband funneling of light via ultrasubwavelength channels. <i>Physical Review Letters</i> , 2011 , 107, 163902 | 7.4 | 52 |
| 74 | Strong coupling between nanoscale metamaterials and phonons. <i>Nano Letters</i> , 2011 , 11, 2104-8 | 11.5 | 89 |
| 73 | Multilayer infrared metamaterial fabrication using membrane projection lithography. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 06FF04 | 1.3 | |
| 72 | Releasable infrared metamaterials. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 051806 | 1.3 | 4 |

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|----|---|-----|-----|
| 71 | Interaction between metamaterial resonators and intersubband transitions in semiconductor quantum wells. <i>Applied Physics Letters</i> , 2011 , 98, 203103 | 3.4 | 28 |
| 70 | Fabrication techniques for three-dimensional metamaterials in the midinfrared. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6O30-C6O33 | 1.3 | 4 |
| 69 | Doping tunable resonance: Toward electrically tunable mid-infrared metamaterials. <i>Applied Physics Letters</i> , 2010 , 96, 101111 | 3.4 | 32 |
| 68 | 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 |
| 67 | Metamaterial based devices for terahertz imaging 2010 , | | 1 |
| 66 | 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 |
| 65 | Effect of thin silicon dioxide layers on resonant frequency in infrared metamaterials. <i>Optics Express</i> , 2010 , 18, 1085-90 | 3.3 | 20 |
| 64 | Introduction to the Topical Issue on Laser Dynamics and Nonlinear Photonics. <i>European Physical Journal D</i> , 2010 , 58, 153-159 | 1.3 | 0 |
| 63 | External modulators for TeraHertz Quantum Cascade Lasers based on electrically-driven active metamaterials. <i>Metamaterials</i> , 2010 , 4, 83-88 | | 13 |
| 62 | Fabrication of 3D metamaterial resonators using self-aligned membrane projection lithography. <i>Advanced Materials</i> , 2010 , 22, 3171-5 | 24 | 54 |
| 61 | Micrometer-scale cubic unit cell 3D metamaterial layers. <i>Advanced Materials</i> , 2010 , 22, 5053-7 | 24 | 89 |
| 60 | Metamaterials: Micrometer-Scale Cubic Unit Cell 3D Metamaterial Layers (Adv. Mater. 44/2010). <i>Advanced Materials</i> , 2010 , 22, 4916-4916 | 24 | 1 |
| 59 | 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 |
| 58 | A spatial light modulator for terahertz beams. <i>Applied Physics Letters</i> , 2009 , 94, 213511 | 3.4 | 209 |
| 57 | Metamaterials for THz polarimetric devices. <i>Optics Express</i> , 2009 , 17, 773-83 | 3.3 | 73 |
| 56 | Thin-film sensing with planar terahertz metamaterials: sensitivity and limitations. <i>Optics Express</i> , 2008 , 16, 1786-95 | 3.3 | 372 |
| 55 | 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 |
| 54 | 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 |

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|----|--|-----|-----|
| 53 | Nano-lithographically fabricated titanium dioxide based visible frequency three dimensional gap photonic crystal. <i>Optics Express</i> , 2007 , 15, 13049-57 | 3.3 | 31 |
| 52 | . <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 261-273 | 2.5 | 42 |
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