

# Ekmel Ozbay

## List of Publications by Year in descending order

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368  
papers

14,314  
citations

36303

51  
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24258

110  
g-index

374  
all docs

374  
docs citations

374  
times ranked

13195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonics: Merging Photonics and Electronics at Nanoscale Dimensions. Science, 2006, 311, 189-193.	12.6	4,129
2	Negative refraction by photonic crystals. Nature, 2003, 423, 604-605.	27.8	675
3	Zeta potential: a surface electrical characteristic to probe the interaction of nanoparticles with normal and cancer human breast epithelial cells. Biomedical Microdevices, 2008, 10, 321-328.	2.8	359
4	Investigation of magnetic resonances for different split-ring resonator parameters and designs. New Journal of Physics, 2005, 7, 168-168.	2.9	270
5	Equivalent-Circuit Models for the Design of Metamaterials Based on Artificial Magnetic Inclusions. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2865-2873.	4.6	224
6	Chiral metamaterials with negative refractive index based on four "split ring resonators. Applied Physics Letters, 2010, 97, .	3.3	199
7	Diodelike Asymmetric Transmission of Linearly Polarized Waves Using Magnetoelectric Coupling and Electromagnetic Wave Tunneling. Physical Review Letters, 2012, 108, 213905.	7.8	195
8	A transparent 90° polarization rotator by combining chirality and electromagnetic wave tunneling. Applied Physics Letters, 2012, 100, .	3.3	193
9	Subwavelength resolution with a negative-index metamaterial superlens. Applied Physics Letters, 2007, 90, 254102.	3.3	185
10	Asymmetric chiral metamaterial circular polarizer based on four U-shaped split ring resonators. Optics Letters, 2011, 36, 1653.	3.3	170
11	Experimental observation of true left-handed transmission peaks in metamaterials. Optics Letters, 2004, 29, 2623.	3.3	160
12	Electrically small split ring resonator antennas. Journal of Applied Physics, 2007, 101, 083104.	2.5	146
13	Leakage current by Frenkel-Poole emission in Ni/Au Schottky contacts on Al <sub>0.83</sub> In <sub>0.17</sub> N/AlN/GaN heterostructures. Applied Physics Letters, 2009, 94, .	3.3	132
14	Optically thin composite resonant absorber at the near-infrared band: a polarization independent and spectrally broadband configuration. Optics Express, 2011, 19, 14260.	3.4	117
15	Electrically switchable metadevices via graphene. Science Advances, 2018, 4, eaao1749.	10.3	117
16	Solar-blind AlGaIn-based p-i-n photodetectors with high breakdown voltage and detectivity. Applied Physics Letters, 2008, 92, .	3.3	111
17	Observation of negative refraction and negative phase velocity in left-handed metamaterials. Applied Physics Letters, 2005, 86, 124102.	3.3	108
18	Asymmetric transmission of linearly polarized waves and polarization angle dependent wave rotation using a chiral metamaterial. Optics Express, 2011, 19, 14290.	3.4	105

#	ARTICLE	IF	CITATIONS
19	Buffer optimization for crack-free GaN epitaxial layers grown on Si(111) substrate by MOCVD. Journal Physics D: Applied Physics, 2008, 41, 155317.	2.8	99
20	Complementary chiral metamaterials with giant optical activity and negative refractive index. Applied Physics Letters, 2011, 98, .	3.3	99
21	Solar-blind AlGaIn-based Schottky photodiodes with low noise and high detectivity. Applied Physics Letters, 2002, 81, 3272-3274.	3.3	97
22	Strong Light-Matter Interaction in Lithography-Free Planar Metamaterial Perfect Absorbers. ACS Photonics, 2018, 5, 4203-4221.	6.6	96
23	High-performance visible-blind GaN-based p-i-n photodetectors. Applied Physics Letters, 2008, 92, .	3.3	89
24	Dislocation-governed current-transport mechanism in (Ni/Au)-AlGaIn/AlN/GaN heterostructures. Journal of Applied Physics, 2009, 105, .	2.5	89
25	Enhanced transmission of microwave radiation in one-dimensional metallic gratings with subwavelength aperture. Applied Physics Letters, 2004, 85, 1098-1100.	3.3	87
26	Design of Miniaturized Narrowband Absorbers Based on Resonant-Magnetic Inclusions. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 63-72.	2.2	82
27	Comparison of the transport properties of high quality AlGaIn/AlN/GaN and AlInN/AlN/GaN two-dimensional electron gas heterostructures. Journal of Applied Physics, 2009, 105, .	2.5	81
28	Effect of disorder on magnetic resonance band gap of split-ring resonator structures. Optics Express, 2004, 12, 5896.	3.4	80
29	Tuning the metal filling fraction in metal-insulator-metal ultra-broadband perfect absorbers to maximize the absorption bandwidth. Photonics Research, 2018, 6, 168.	7.0	78
30	Extraordinary grating-coupled microwave transmission through a subwavelength annular aperture. Optics Express, 2005, 13, 1666.	3.4	77
31	Al <sub>x</sub> Ga <sub>1-x</sub> N-based avalanche photodiodes with high reproducible avalanche gain. Applied Physics Letters, 2007, 90, 163506.	3.3	77
32	Electron beam lithography designed silver nano-disks used as label free nano-biosensors based on localized surface plasmon resonance. Optics Express, 2012, 20, 2587.	3.4	77
33	Radiation properties of a split ring resonator and monopole composite. Physica Status Solidi (B): Basic Research, 2007, 244, 1192-1196.	1.5	76
34	Visible light nearly perfect absorber: an optimum unit cell arrangement for near absolute polarization insensitivity. Optics Express, 2017, 25, 27624.	3.4	76
35	Focusing of electromagnetic waves by a left-handed metamaterial flat lens. Optics Express, 2005, 13, 8753.	3.4	75
36	Experimental observation of left-handed transmission in a bilayer metamaterial under normal-to-plane propagation. Optics Express, 2006, 14, 8685.	3.4	73

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37	Temperature dependent negative capacitance behavior in (Ni/Au)/AlGa <sub>N</sub> /AlN/GaN heterostructures. Journal of Non-Crystalline Solids, 2010, 356, 1006-1011.	3.1	70
38	Beaming of light and enhanced transmission via surface modes of photonic crystals. Optics Letters, 2005, 30, 3078.	3.3	68
39	Unidirectional transmission in non-symmetric gratings containing metallic layers. Optics Express, 2009, 17, 13335.	3.4	68
40	One-way transmission through the subwavelength slit in nonsymmetric metallic gratings. Optics Letters, 2010, 35, 2597.	3.3	68
41	Highly directive radiation from sources embedded inside photonic crystals. Applied Physics Letters, 2003, 83, 3263-3265.	3.3	65
42	Experimental validation of strong directional selectivity in nonsymmetric metallic gratings with a subwavelength slit. Applied Physics Letters, 2011, 98, .	3.3	65
43	Large-Area, Cost-Effective, Ultra-Broadband Perfect Absorber Utilizing Manganese in Metal-Insulator-Metal Structure. Scientific Reports, 2018, 8, 9162.	3.3	65
44	Compact size highly directive antennas based on the SRR metamaterial medium. New Journal of Physics, 2005, 7, 223-223.	2.9	63
45	High-speed visible-blind GaN-based indium-tin-oxide Schottky photodiodes. Applied Physics Letters, 2001, 79, 2838-2840.	3.3	62
46	Bismuth-based metamaterials: from narrowband reflective color filter to extremely broadband near perfect absorber. Nanophotonics, 2019, 8, 823-832.	6.0	60
47	The persistent photoconductivity effect in AlGa <sub>N</sub> /GaN heterostructures grown on sapphire and SiC substrates. Journal of Applied Physics, 2008, 103, .	2.5	59
48	Generation of an Axially Asymmetric Bessel-Like Beam from a Metallic Subwavelength Aperture. Physical Review Letters, 2009, 102, 143901.	7.8	56
49	Disordered and Densely Packed ITO Nanorods as an Excellent Lithography-Free Optical Solar Reflector Metasurface. ACS Photonics, 2019, 6, 1812-1822.	6.6	55
50	Coupling effect between two adjacent chiral structure layers. Optics Express, 2010, 18, 5375.	3.4	53
51	Ultra-Broadband, Lithography-Free, and Large-Scale Compatible Perfect Absorbers: The Optimum Choice of Metal layers in Metal-Insulator Multilayer Stacks. Scientific Reports, 2017, 7, 14872.	3.3	53
52	Miniaturized negative permeability materials. Applied Physics Letters, 2007, 91, .	3.3	52
53	High-speed solar-blind photodetectors with indium-tin-oxide Schottky contacts. Applied Physics Letters, 2003, 82, 2344-2346.	3.3	51
54	Strategies for Plasmonic Hot-Electron-Driven Photoelectrochemical Water Splitting. ChemPhotoChem, 2018, 2, 161-182.	3.0	51

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55	Broadband circular polarizer based on high-contrast gratings. Optics Letters, 2012, 37, 2094.	3.3	50
56	Ultra-broadband, wide angle absorber utilizing metal insulator multilayers stack with a multi-thickness metal surface texture. Scientific Reports, 2017, 7, 4755.	3.3	50
57	High efficiency of graded index photonic crystal as an input coupler. Journal of Applied Physics, 2009, 105, .	2.5	49
58	Manipulation of Asymmetric Transmission in Planar Chiral Nanostructures by Anisotropic Loss. Advanced Optical Materials, 2013, 1, 482-488.	7.3	49
59	All Ceramic-Based Metal-Free Ultra-broadband Perfect Absorber. Plasmonics, 2019, 14, 1801-1815.	3.4	47
60	Optimization and tunability of deep subwavelength resonators for metamaterial applications: complete enhanced transmission through a subwavelength aperture. Optics Express, 2009, 17, 5933.	3.4	46
61	Toward photonic crystal based spatial filters with wide angle ranges of total transmission. Applied Physics Letters, 2009, 94, .	3.3	44
62	Tunable, omnidirectional, and nearly perfect resonant absorptions by a graphene-hBN-based hole array metamaterial. Optics Express, 2018, 26, 16940.	3.4	44
63	Negative phase advance in polarization independent, multi-layer negative-index metamaterials. Optics Express, 2008, 16, 8835.	3.4	43
64	Electrical characterization of MS and MIS structures on AlGaIn/AlN/GaN heterostructures. Microelectronics Reliability, 2011, 51, 370-375.	1.7	43
65	High-speed >90% quantum-efficiency p-i-n photodiodes with a resonance wavelength adjustable in the 795-835 nm range. Applied Physics Letters, 1999, 74, 1072-1074.	3.3	42
66	Surface wave splitter based on metallic gratings with sub-wavelength aperture. Optics Express, 2008, 16, 19091.	3.4	42
67	Experimental evaluation of impact ionization coefficients in Al <sub>x</sub> Ga <sub>1-x</sub> N based avalanche photodiodes. Applied Physics Letters, 2006, 89, 183524.	3.3	41
68	A study of semi-insulating GaN grown on AlN buffer/sapphire substrate by metalorganic chemical vapor deposition. Journal of Crystal Growth, 2006, 293, 273-277.	1.5	41
69	Transmission characteristics of bianisotropic metamaterials based on omega shaped metallic inclusions. New Journal of Physics, 2007, 9, 326-326.	2.9	41
70	InSb high-speed photodetectors grown on GaAs substrate. Journal of Applied Physics, 2003, 94, 5414.	2.5	40
71	Characterization and tilted response of a fishnet metamaterial operating at 100%GHz. Journal Physics D: Applied Physics, 2008, 41, 135011.	2.8	40
72	Unidirectional transmission in photonic-crystal gratings at beam-type illumination. Optics Express, 2010, 18, 22283.	3.4	40

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73	Multichannel optical diode with unidirectional diffraction relevant total transmission. Optics Express, 2012, 20, 14980.	3.4	40
74	Experimental realization of a high-contrast grating based broadband quarter-wave plate. Optics Express, 2012, 20, 27966.	3.4	40
75	Lithography-Free Planar Band-Pass Reflective Color Filter Using A Series Connection of Cavities. Scientific Reports, 2019, 9, 290.	3.3	40
76	Hybrid plasmon-phonon polariton bands in graphene-hexagonal boron nitride metamaterials [Invited]. Journal of the Optical Society of America B: Optical Physics, 2017, 34, D29.	2.1	39
77	Angstrom Thick ZnO Passivation Layer to Improve the Photoelectrochemical Water Splitting Performance of a TiO <sub>2</sub> Nanowire Photoanode: The Role of Deposition Temperature. Scientific Reports, 2018, 8, 16322.	3.3	39
78	Colorimetric and Near-Absolute Polarization-Insensitive Refractive-Index Sensing in All-Dielectric Guided-Mode Resonance Based Metasurface. Journal of Physical Chemistry C, 2019, 123, 19125-19134.	3.1	39
79	Spatial filtering using dielectric photonic crystals at beam-type excitation. Journal of Applied Physics, 2010, 108, .	2.5	38
80	97 percent light absorption in an ultrabroadband frequency range utilizing an ultrathin metal layer: randomly oriented, densely packed dielectric nanowires as an excellent light trapping scaffold. Nanoscale, 2017, 9, 16652-16660.	5.6	38
81	Band-dropping via coupled photonic crystal waveguides. Optics Express, 2002, 10, 1279.	3.4	37
82	“Fairy Chimney”-Shaped Tandem Metamaterials as Double Resonance SERS Substrates. Small, 2013, 9, 531-537.	10.0	37
83	Experimental demonstration of labyrinth-based left-handed metamaterials. Optics Express, 2005, 13, 10238.	3.4	35
84	Transient surface photovoltage in n- and p-GaN as probed by x-ray photoelectron spectroscopy. Applied Physics Letters, 2011, 98, .	3.3	35
85	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. ChemSusChem, 2020, 13, 2577-2588.	6.8	34
86	Frequency and temperature dependence of the dielectric and AC electrical conductivity in (Ni/Au)/AlGaIn/GaN heterostructures. Microelectronic Engineering, 2010, 87, 1997-2001.	2.4	33
87	How to Build Prussian Blue Based Water Oxidation Catalytic Assemblies: Common Trends and Strategies. Chemistry - A European Journal, 2021, 27, 3638-3649.	3.3	33
88	Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating. Optics Express, 2012, 20, 26636.	3.4	32
89	Active Tuning from Narrowband to Broadband Absorbers Using a Sub-wavelength VO <sub>2</sub> Embedded Layer. Plasmonics, 2021, 16, 1013-1021.	3.4	32
90	Mid-infrared adaptive thermal camouflage using a phase-change material coupled dielectric nanoantenna. Journal Physics D: Applied Physics, 2021, 54, 265105.	2.8	32

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91	Enhanced transmission through a subwavelength aperture using metamaterials. Applied Physics Letters, 2009, 95, 052103.	3.3	31
92	LSPR enhanced MSM UV photodetectors. Nanotechnology, 2012, 23, 444010.	2.6	31
93	Asymmetric transmission of terahertz waves using polar dielectrics. Optics Express, 2014, 22, 3075.	3.4	31
94	Co doping induced structural and optical properties of sol-gel prepared ZnO thin films. Applied Surface Science, 2014, 318, 309-313.	6.1	31
95	Disordered Nanohole Patterns in Metal-Insulator Multilayer for Ultra-broadband Light Absorption: Atomic Layer Deposition for Lithography Free Highly repeatable Large Scale Multilayer Growth. Scientific Reports, 2017, 7, 15079.	3.3	31
96	Emerging photoluminescence from defective vanadium diselenide nanosheets. Photonics Research, 2018, 6, 244.	7.0	31
97	Solar-blind Al <sub>x</sub> Ga <sub>1-x</sub> N-based avalanche photodiodes. Applied Physics Letters, 2005, 87, 223502.	3.3	30
98	Off-axis directional beaming via photonic crystal surface modes. Applied Physics Letters, 2008, 92, .	3.3	30
99	Composite chiral metamaterials with negative refractive index and high values of the figure of merit. Optics Express, 2012, 20, 6146.	3.4	30
100	A Robust, Precious-Metal-Free Dye-Sensitized Photoanode for Water Oxidation: A Nanosecond-Long Excited-State Lifetime through a Prussian Blue Analogue. Angewandte Chemie - International Edition, 2020, 59, 4082-4090.	13.8	30
101	MOCVD growth and electrical studies of p-type AlGa <sub>N</sub> with Al fraction 0.35. Journal of Crystal Growth, 2006, 289, 419-422.	1.5	29
102	Compact planar far-field superlens based on anisotropic left-handed metamaterials. Physical Review B, 2009, 80, .	3.2	29
103	Investigation of Trap States in AlInN/AlN/GaN Heterostructures by Frequency-Dependent Admittance Analysis. Journal of Electronic Materials, 2010, 39, 2681-2686.	2.2	29
104	Compact wavelength de-multiplexer design using slow light regime of photonic crystal waveguides. Optics Express, 2011, 19, 24129.	3.4	29
105	Validation of electromagnetic field enhancement in near-infrared through Sierpinski fractal nanoantennas. Optics Express, 2014, 22, 19504.	3.4	28
106	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. Optics Express, 2018, 26, 1.	3.4	28
107	Semiconductor Thin Film Based Metasurfaces and Metamaterials for Photovoltaic and Photoelectrochemical Water Splitting Applications. Advanced Optical Materials, 2019, 7, 1900028.	7.3	28
108	The influence of nitridation time on the structural properties of GaN grown on Si (111) substrate. Applied Physics A: Materials Science and Processing, 2009, 94, 73-82.	2.3	27

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109	Step-edge-induced resistance anisotropy in quasi-free-standing bilayer chemical vapor deposition graphene on SiC. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	27
110	Toward Electrically Tunable, Lithography-Free, Ultra-Thin Color Filters Covering the Whole Visible Spectrum. <i>Scientific Reports</i> , 2018, 8, 11316.	3.3	26
111	Lithography-Free Random Bismuth Nanostructures for Full Solar Spectrum Harvesting and Mid-Infrared Sensing. <i>Advanced Optical Materials</i> , 2020, 8, 1901203.	7.3	26
112	High-Throughput, High-Resolution Interferometric Light Microscopy of Biological Nanoparticles. <i>ACS Nano</i> , 2020, 14, 2002-2013.	14.6	26
113	Fano resonances in THz metamaterials composed of continuous metallic wires and split ring resonators. <i>Optics Express</i> , 2014, 22, 26572.	3.4	25
114	Nearly perfect resonant absorption and coherent thermal emission by hBN-based photonic crystals. <i>Optics Express</i> , 2017, 25, 31970.	3.4	25
115	High-speed GaAs-based resonant-cavity-enhanced 1.3 $\mu$ m photodetector. <i>Applied Physics Letters</i> , 2000, 77, 3890-3892.	3.3	24
116	Isolation and one-way effects in diffraction on dielectric gratings with plasmonic inserts. <i>Optics Express</i> , 2009, 17, 278.	3.4	24
117	Strain analysis of the GaN epitaxial layers grown on nitridated Si(111) substrate by metal organic chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 83-88.	4.0	24
118	Guided Plasmon Modes of a Graphene-Coated Kerr Slab. <i>Plasmonics</i> , 2016, 11, 735-741.	3.4	24
119	Tunable plasmon-phonon polaritons in anisotropic 2D materials on hexagonal boron nitride. <i>Nanophotonics</i> , 2020, 9, 3909-3920.	6.0	24
120	Highly directional enhanced radiation from sources embedded inside three-dimensional photonic crystals. <i>Optics Express</i> , 2005, 13, 7645.	3.4	23
121	Metal-semiconductor-metal photodetector on as-deposited TiO <sub>2</sub> thin films on sapphire substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	23
122	Current transport properties of (Au/Ni)/HfAlO <sub>3</sub> /n-Si metal-insulator-semiconductor junction. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109758.	4.0	23
123	Highly directional emission from photonic crystals with a wide bandwidth. <i>Applied Physics Letters</i> , 2007, 91, 121105.	3.3	22
124	Improvement of breakdown characteristics in AlGaIn/GaN/AlGaIn HEMT based on a grading AlGaIn buffer layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2593-2596.	1.8	22
125	One-way reciprocal spoof surface plasmons and relevant reversible diodelike beaming. <i>Physical Review B</i> , 2013, 87, .	3.2	22
126	Low dark current and high speed ZnO metal-semiconductor-metal photodetector on SiO <sub>2</sub> /Si substrate. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	22



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127	Experimental demonstration of subwavelength focusing of electromagnetic waves by labyrinth-based two-dimensional metamaterials. <i>Optics Letters</i> , 2006, 31, 814.	3.3	21
128	Deep-ultraviolet Al <sub>0.75</sub> Ga <sub>0.25</sub> N photodiodes with low cutoff wavelength. <i>Applied Physics Letters</i> , 2006, 88, 123503.	3.3	21
129	Structural and electrical characterizations of In <sub>x</sub> Ga <sub>1-x</sub> As/InP structures for infrared photodetector applications. <i>Journal of Applied Physics</i> , 2014, 115, 104502.	2.5	21
130	Comparison of Back and Top Gating Schemes with Tunable Graphene Fractal Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 2303-2307.	6.6	21
131	Epsilon-near-zero enhancement of near-field radiative heat transfer in BP/hBN and BP/±-MoO <sub>3</sub> parallel-plate structures. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	21
132	Graphene-based tunable plasmon induced transparency in gold strips. <i>Optical Materials Express</i> , 2018, 8, 1069.	3.0	20
133	VO <sub>2</sub> graphene-integrated hBN-based metasurface for bi-tunable phonon-induced transparency and nearly perfect resonant absorption. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 245101.	2.8	20
134	Tunable Zero-Index Photonic Crystal Waveguide for Two-Qubit Entanglement Detection. <i>ACS Photonics</i> , 2016, 3, 2129-2133.	6.6	19
135	Theoretical Study and Experimental Realization of a Low-Loss Metamaterial Operating at the Millimeter-Wave Regime: Demonstrations of Flat- and Prism-Shaped Samples. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 386-393.	2.9	18
136	Coupling enhancement of split ring resonators on graphene. <i>Carbon</i> , 2014, 80, 351-355.	10.3	18
137	Synthesis and Characterization of Iron Oxide Derivatized Mutant Cowpea Mosaic Virus Hybrid Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 4816-4820.	21.0	17
138	Transmission enhancement through deep subwavelength apertures using connected split ring resonators. <i>Optics Express</i> , 2010, 18, 3952.	3.4	17
139	Improved selectivity from a wavelength addressable device for wireless stimulation of neural tissue. <i>Frontiers in Neuroengineering</i> , 2014, 7, 5.	4.8	17
140	Multiband one-way polarization conversion in complementary split-ring resonator based structures by combining chirality and tunneling. <i>Optics Express</i> , 2015, 23, 13517.	3.4	17
141	Electrically controllable plasmon induced reflectance in hybrid metamaterials. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	17
142	Epitaxial lift-off of thin InAs layers. <i>Journal of Electronic Materials</i> , 1995, 24, 757-760.	2.2	16
143	Designing materials with desired electromagnetic properties. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 2611-2615.	1.4	16
144	Dual-color ultraviolet metal-semiconductor-metal AlGaIn photodetectors. <i>Applied Physics Letters</i> , 2006, 89, 143503.	3.3	16

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145	Spatial and spatial-frequency filtering using one-dimensional graded-index lattices with defects. Optics Communications, 2009, 282, 4490-4496.	2.1	16
146	Dual-frequency division de-multiplexer based on cascaded photonic crystal waveguides. Physica B: Condensed Matter, 2012, 407, 4043-4047.	2.7	16
147	Photocatalytic water oxidation with a Prussian blue modified brown TiO <sub>2</sub> . Chemical Communications, 2021, 57, 508-511.	4.1	16
148	Hybrid indium tin oxide-Au metamaterial as a multiband bi-functional light absorber in the visible and near-infrared ranges. Journal Physics D: Applied Physics, 2021, 54, 275102.	2.8	16
149	Anisotropic absorber and tunable source of MIR radiation based on a black phosphorus-SiC metasurface. Photonics and Nanostructures - Fundamentals and Applications, 2022, 50, 101020.	2.0	16
150	Super-resolution imaging by one-dimensional, microwave left-handed metamaterials with an effective negative index. Journal of Physics Condensed Matter, 2008, 20, 304216.	1.8	15
151	The electrical, optical, and structural properties of GaN epitaxial layers grown on Si(111) substrate with interlayers. Superlattices and Microstructures, 2009, 46, 846-857.	3.1	15
152	The effect of SixNy interlayer on the quality of GaN epitaxial layers grown on Si(111) substrates by MOCVD. Current Applied Physics, 2009, 9, 472-477.	2.4	15
153	Nanoantenna coupled UV subwavelength photodetectors based on GaN. Optics Express, 2012, 20, 2649.	3.4	15
154	Ultrafast transient optical loss dynamics in exciton-plasmon nano-assemblies. Nanoscale, 2017, 9, 6558-6566.	5.6	15
155	Determination of current transport and trap states density in AlInGaN/GaN heterostructures. Microelectronics Reliability, 2019, 103, 113517.	1.7	15
156	Transmissive terahertz metasurfaces with vanadium dioxide split-rings and grids for switchable asymmetric polarization manipulation. Scientific Reports, 2022, 12, 3518.	3.3	15
157	Physics and applications of photonic nanocrystals. International Journal of Nanotechnology, 2004, 1, 379.	0.2	14
158	Electromagnetic wave focusing from sources inside a two-dimensional left-handed material superlens. New Journal of Physics, 2006, 8, 221-221.	2.9	14
159	Evolution of the mosaic structure in InGaN layer grown on a thick GaN template and sapphire substrate. Journal of Materials Science: Materials in Electronics, 2013, 24, 4471-4481.	2.2	14
160	Experimental study of broadband unidirectional splitting in photonic crystal gratings with broken structural symmetry. Applied Physics Letters, 2013, 102, .	3.3	14
161	AlGaIn/GaN-Based Laterally Gated High-Electron-Mobility Transistors With Optimized Linearity. IEEE Transactions on Electron Devices, 2021, 68, 1016-1023.	3.0	14
162	Multifunctional tunable gradient metasurfaces for terahertz beam splitting and light absorption. Optics Letters, 2021, 46, 3953.	3.3	14

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163	Experimental observation of subwavelength localization using metamaterial-based cavities. Optics Letters, 2009, 34, 88.	3.3	13
164	Wide-angle reflection-mode spatial filtering and splitting with photonic crystal gratings and single-layer rod gratings. Optics Letters, 2014, 39, 6193.	3.3	13
165	XPS for probing the dynamics of surface voltage and photovoltage in GaN. Applied Surface Science, 2014, 323, 25-30.	6.1	13
166	Effects of rapid thermal annealing on the structural and local atomic properties of ZnO: Ge nanocomposite thin films. Journal of Applied Physics, 2015, 117, .	2.5	13
167	Optical, electronic, and elastic properties of some $A^{5+}B^{6+}C^{7+}$ ferroelectrics (A=Sb, Bi; B=S, Se; C=I, Br, Cl): First principle calculation. Ferroelectrics, 2017, 511, 22-34.	0.6	13
168	Characteristic Attributes of Multiple Cascaded Terahertz Metasurfaces with Magnetically Tunable Subwavelength Resonators. Annalen Der Physik, 2018, 530, 1700252.	2.4	13
169	Compact and Wideband CPW Wilkinson Power Dividers for GaN MMIC Applications. , 2018, , .		13
170	A Transparent All-Dielectric Multifunctional Nanoantenna Emitter Compatible With Thermal Infrared and Cooling Scenarios. IEEE Access, 2021, 9, 98590-98602.	4.2	13
171	Diode like high-contrast asymmetric transmission of linearly polarized waves based on plasmon-tunneling effect coupling to electromagnetic radiation modes. Journal Physics D: Applied Physics, 2021, 54, 365102.	2.8	13
172	Dynamic beam splitter employing an all-dielectric metasurface based on an elastic substrate. Optics Letters, 2020, 45, 3521.	3.3	13
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