

# Mykhailo Tymchenko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9171297/publications.pdf>

Version: 2024-02-01

26  
papers

1,958  
citations

687363

13  
h-index

940533

16  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant nonlinear response from plasmonic metasurfaces coupled to intersubband transitions. <i>Nature</i> , 2014, 511, 65-69.	27.8	550
2	Nonlinear metasurfaces: a paradigm shift in nonlinear optics. <i>Materials Today</i> , 2018, 21, 8-21.	14.2	403
3	Hyperbolic Plasmons and Topological Transitions Over Uniaxial Metasurfaces. <i>Physical Review Letters</i> , 2015, 114, 233901.	7.8	280
4	Gradient Nonlinear Pancharatnam-Berry Metasurfaces. <i>Physical Review Letters</i> , 2015, 115, 207403.	7.8	190
5	Synchronized conductivity modulation to realize broadband lossless magnetic-free non-reciprocity. <i>Nature Communications</i> , 2017, 8, 795.	12.8	95
6	Ultrathin gradient nonlinear metasurface with a giant nonlinear response. <i>Optica</i> , 2016, 3, 283.	9.3	89
7	Ultrathin Second-Harmonic Metasurfaces with Record-High Nonlinear Optical Response. <i>Advanced Optical Materials</i> , 2016, 4, 664-670.	7.3	86
8	Large-Area Nanoimprinted Colloidal Au Nanocrystal-Based Nanoantennas for Ultrathin Polarizing Plasmonic Metasurfaces. <i>Nano Letters</i> , 2015, 15, 5254-5260.	9.1	73
9	Manipulation and Steering of Hyperbolic Surface Polaritons in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2018, 30, e1706358.	21.0	63
10	CMOS Integrated Magnetless Circulators Based on Spatiotemporal Modulation Angular-Momentum Biasing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 2649-2662.	4.6	41
11	Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2018, 18, 5205-5210.	9.1	29
12	Nonreciprocal Components Based on Switched Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, , 1-20.	4.6	21
13	Quasielectrostatic Wave Propagation Beyond the Delay-Bandwidth Limit in Switched Networks. <i>Physical Review X</i> , 2019, 9, .	8.9	21
14	Ultra-Wideband Switched-Capacitor Delays and Circulators Theory and Implementation. <i>IEEE Journal of Solid-State Circuits</i> , 2021, 56, 1412-1424.	5.4	10
15	Composite Floquet scattering matrix for the analysis of time-modulated systems. , 2017, , .		4
16	Nonlinear optics with quantum-engineered intersubband metamaterials. , 2015, , .		1
17	Role of Synchronization in Magnetless Nonreciprocal Devices Based on Commutated Transmission Lines. <i>Physical Review Applied</i> , 2020, 13, .	3.8	1
18	Universal Frequency-Domain Analysis of N-Path Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 569-580.	5.4	1

#	ARTICLE	IF	CITATIONS
19	Pancharatnam-Berry metasurfaces with giant nonlinear response. , 2015, , .		0
20	Highly-nonlinear quantum-engineered polaritonic metasurfaces. Proceedings of SPIE, 2015, , .	0.8	0
21	Hyperbolic metasurfaces. , 2015, , .		0
22	Ultrathin gradient nonlinear metasurfaces with giant nonlinear response (Conference Presentation). , 2016, , .		0
23	Ultrathin nonlinear metasurfaces. , 2016, , .		0
24	Ultrathin nonlinear metasurfaces with continuous phase control at the nanoscale. , 2016, , .		0
25	Flat nonlinear optics: metasurfaces for efficient frequency mixing. , 2017, , .		0
26	Giant nonlinear response of polaritonic metasurfaces coupled to intersubband transition. , 2015, , .		0