

# Vladimir I Shalaev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5655291/publications.pdf>

Version: 2024-02-01

23  
papers

2,748  
citations

759233

12  
h-index

752698

20  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss-free and active optical negative-index metamaterials. <i>Nature</i> , 2010, 466, 735-738.	27.8	729
2	Spatiotemporal light control with active metasurfaces. <i>Science</i> , 2019, 364, .	12.6	581
3	The Case for Plasmonics. <i>Science</i> , 2010, 328, 440-441.	12.6	524
4	Near-zero-index materials for photonics. <i>Nature Reviews Materials</i> , 2019, 4, 742-760.	48.7	234
5	Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , 2020, 9, 90.	16.6	192
6	Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. <i>Physical Review Letters</i> , 2018, 120, 043902.	7.8	98
7	Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation. <i>Nature Communications</i> , 2017, 8, 15829.	12.8	91
8	Highly directional spaser array for the red wavelength region. <i>Laser and Photonics Reviews</i> , 2014, 8, 896-903.	8.7	69
9	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700212.	8.7	63
10	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000411.	8.7	51
11	Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. <i>Optical Materials Express</i> , 2018, 8, 3392.	3.0	42
12	Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1318.	2.5	35
13	Exploring Time-Resolved Multiphysics of Active Plasmonic Systems with Experiment-Based Gain Models. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800071.	8.7	9
14	Understanding all-optical switching at the epsilon-near-zero point: a tutorial review. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	2.2	7
15	Near-zero-index ultra-fast pulse characterization. <i>Nature Communications</i> , 2022, 13, .	12.8	6
16	Physical mechanisms of longitudinal vortexes formation, appearance of zones with high heat fluxes and early transition in hypersonic flow over delta wing with blunted leading edges. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
17	Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films. <i>Optics Letters</i> , 2021, 46, 5433.	3.3	4
18	Singularities of 3D laminar boundary layer equations and flow structure in their vicinity on conical bodies. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Laminar-turbulent transition in the vicinity of blunt leading edge of flat delta wing in hypersonic flow. AIP Conference Proceedings, 2017, , .	0.4	2
20	High Temperature Sensing with Refractory Plasmonic Metasurfaces. , 2018, , .		1
21	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	3.0	1
22	Transparent conducting oxides as dynamic materials at telecom wavelengths. , 2015, , .		0
23	Control of laminar-turbulent transition and its influence on flow structure. AIP Conference Proceedings, 2018, , .	0.4	0