

Vladimir I Shalaev

List of Publications by Year in descending order

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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 | Understanding all-optical switching at the epsilon-near-zero point: a tutorial review. Applied Physics B: Lasers and Optics, 2022, 128, 1. | 2.2 | 7 |
| 2 | Near-zero-index ultra-fast pulse characterization. Nature Communications, 2022, 13, . | 12.8 | 6 |
| 3 | Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. Laser and Photonics Reviews, 2021, 15, 2000411. | 8.7 | 51 |
| 4 | Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films. Optics Letters, 2021, 46, 5433. | 3.3 | 4 |
| 5 | Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. Applied Sciences (Switzerland), 2020, 10, 1318. | 2.5 | 35 |
| 6 | Ten years of spasers and plasmonic nanolasers. Light: Science and Applications, 2020, 9, 90. | 16.6 | 192 |
| 7 | Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304. | 3.0 | 1 |
| 8 | Spatiotemporal light control with active metasurfaces. Science, 2019, 364, . | 12.6 | 581 |
| 9 | Near-zero-index materials for photonics. Nature Reviews Materials, 2019, 4, 742-760. | 48.7 | 234 |
| 10 | Exploring Time-Resolved Multiphysics of Active Plasmonic Systems with Experiment-Based Gain Models. Laser and Photonics Reviews, 2019, 13, 1800071. | 8.7 | 9 |
| 11 | Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. Physical Review Letters, 2018, 120, 043902. | 7.8 | 98 |
| 12 | High Temperature Sensing with Refractory Plasmonic Metasurfaces. , 2018, , . | | 1 |
| 13 | Control of laminar-turbulent transition and its influence on flow structure. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 14 | Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. Optical Materials Express, 2018, 8, 3392. | 3.0 | 42 |
| 15 | Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation. Nature Communications, 2017, 8, 15829. | 12.8 | 91 |
| 16 | Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. Laser and Photonics Reviews, 2017, 11, 1700212. | 8.7 | 63 |
| 17 | Laminar-turbulent transition in the vicinity of blunt leading edge of flat delta wing in hypersonic flow. AIP Conference Proceedings, 2017, , . | 0.4 | 2 |
| 18 | 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. AIP Conference Proceedings, 2016, , . | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Singularities of 3D laminar boundary layer equations and flow structure in their vicinity on conical bodies. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 20 | Transparent conducting oxides as dynamic materials at telecom wavelengths. , 2015, , . | | 0 |
| 21 | Highly directional spaser array for the red wavelength region. Laser and Photonics Reviews, 2014, 8, 896-903. | 8.7 | 69 |
| 22 | The Case for Plasmonics. Science, 2010, 328, 440-441. | 12.6 | 524 |
| 23 | Loss-free and active optical negative-index metamaterials. Nature, 2010, 466, 735-738. | 27.8 | 729 |