

# Ihor Pavlov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2152411/publications.pdf>

Version: 2024-02-01

29  
papers

655  
citations

840776

11  
h-index

794594

19  
g-index

29  
all docs

29  
docs citations

29  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear laser lithography for indefinitely large-area nanostructuring with femtosecond pulses. Nature Photonics, 2013, 7, 897-901.	31.4	267
2	In-chip microstructures and photonic devices fabricated by nonlinear laser lithography deep inside silicon. Nature Photonics, 2017, 11, 639-645.	31.4	101
3	High-power high-repetition-rate single-mode Er-Yb-doped fiber laser system. Optics Express, 2012, 20, 9471.	3.4	42
4	Rich complex behaviour of self-assembled nanoparticles far from equilibrium. Nature Communications, 2017, 8, 14942.	12.8	40
5	Nano patterning of AISI 316L stainless steel with Nonlinear Laser Lithography: Sliding under dry and oil-lubricated conditions. Tribology International, 2016, 99, 67-76.	5.9	35
6	Diffraction-limited, 10-W, 5-ns, 100-kHz, all-fiber laser at 1550 nm. Optics Letters, 2014, 39, 2695.	3.3	31
7	Femtosecond filamentation in chalcogenide glasses limited by two-photon absorption. Optical Materials, 2010, 32, 1553-1557.	3.6	24
8	Nonlinear laser lithography to control surface properties of stainless steel. CIRP Annals - Manufacturing Technology, 2015, 64, 193-196.	3.6	17
9	Spatiotemporal dynamics of femtosecond filament induced plasma channel in fused silica. Applied Physics B: Lasers and Optics, 2009, 97, 829-834.	2.2	16
10	NLL-Assisted Multilayer Graphene Patterning. ACS Omega, 2018, 3, 1546-1554.	3.5	15
11	Surface Plasmon as a Probe of Local Field Enhancement. Plasmonics, 2009, 4, 115-119.	3.4	13
12	Generation of 2- $\mu\text{J}$ 410-fs pulses from a single-mode chirped-pulse fiber laser operating at 1550 nm. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	10
13	Time-resolved imaging of ultrafast laser pulse interaction with transparent materials. , 2007, 6726, 25.		8
14	Spatio-temporal dynamics of femtosecond laser pulses at 1550 nm wavelength in crystal silicon. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
15	3D-graphene-laser patterned p-type silicon Schottky diode. Materials Science in Semiconductor Processing, 2021, 121, 105454.	4.0	6
16	Optically induced anisotropy of surface plasmons in spherical metal nanoparticles. Physical Review B, 2010, 82, .	3.2	5
17	The alignment of nematic liquid crystal by the Ti layer processed by nonlinear laser lithography. Liquid Crystals, 2018, 45, 1265-1271.	2.2	5
18	Direct observation of the space-time transformation of a femtosecond laser pulse in fused quartz. JETP Letters, 2009, 89, 535-539.	1.4	4

#	ARTICLE	IF	CITATIONS
19	Upconversion fluorescence assisted visualization of femtosecond laser filaments in Er-doped chalcogenide 65GeS2-25Ga2S3-10CsCl glass. Optics and Laser Technology, 2019, 119, 105621.	4.6	3
20	Interaction of femtosecond filaments in sapphire. Proceedings of SPIE, 2010, , .	0.8	2
21	Computer-generated holograms embedded in bulk silicon with nonlinear laser lithography. , 2016, , .		2
22	Laser-slicing of silicon with 3D nonlinear laser lithography. , 2017, , .		1
23	Liquid Crystal Alignment on the Patterns Produced by Nonlinear Laser Lithography. , 2019, , .		1
24	Nonlinear Laser Lithography for Enhanced Tribological Properties. , 2015, , .		1
25	Transient light absorption induced in glass by femtosecond laser pulses. Quantum Electronics, 2009, 39, 933-937.	1.0	0
26	Filament-induced waveguides in As 4 Ge 30 S 66. , 2010, , .		0
27	Non-linear effects in chalcogenide glasses. , 2010, , .		0
28	Holograms Deep Inside Silicon. , 2016, , .		0
29	Optical waveguides written deep inside silicon by femtosecond laser. , 2017, , .		0