

# Ondřej Šlezák

## List of Publications by Year in descending order

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41  
papers

626  
citations

566801

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h-index

580395

25  
g-index

42  
all docs

42  
docs citations

42  
times ranked

532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the lasing performance of a crystalline-coated Yb:YAG thin-disk directly bonded onto a silicon carbide heatsink. Optics Express, 2022, 30, 7708.	1.7	5
2	Faraday Rotation of Dy <sub>2</sub> O <sub>3</sub> , CeF <sub>3</sub> and Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> at the Mid-Infrared Wavelengths. Materials, 2020, 13, 5324.	1.3	18
3	Verdet constant of potassium terbium fluoride crystal as a function of wavelength and temperature. Optics Letters, 2020, 45, 1683.	1.7	19
4	Tensor-to-matrix mapping in elasto-optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1090.	0.9	3
5	Verdet Constant of Magneto-Active Materials Developed for High-Power Faraday Devices. Applied Sciences (Switzerland), 2019, 9, 3160.	1.3	77
6	Numerical Analysis of Thermal Effects in a Concept of a Cryogenically Cooled Yb: YAG Multislab 10 J/100-Hz Laser Amplifier. IEEE Journal of Quantum Electronics, 2019, 55, 1-8.	1.0	5
7	Characterization of the Verdet Constant of Dy <sub>2</sub> O <sub>3</sub> Ceramics in the Two-Micron Spectral Range. , 2019, , .		0
8	Temperature-wavelength dependence of Verdet constant of Dy <sub>2</sub> O <sub>3</sub> ceramics. Optical Materials Express, 2019, 9, 2971.	1.6	28
9	Thermo-optical Study of 10 J/ 100 Hz Cryogenically Cooled Yb:YAG Diode Pumped Laser System. , 2019, , .		0
10	JONES MATRIX POLARIMETRY FOR HIGH POWER LASER OPTICAL COMPONENTS. MM Science Journal, 2019, 2019, 3632-3637.	0.2	0
11	Faraday effect measurements of holmium oxide (Ho <sub>2</sub> O <sub>3</sub> ) ceramics-based magneto-optical materials. High Power Laser Science and Engineering, 2018, 6, .	2.0	28
12	Femtosecond Yb:YAG ceramic slab regenerative amplifier. Optical Materials Express, 2018, 8, 615.	1.6	8
13	Characterization of Bivoj/DiPOLE 100: HiLASE 100-J/10-Hz diode pumped solid state laser. , 2018, , .		3
14	Verdet constant dispersion of CeF <sub>3</sub> in the visible and near-infrared spectral range. Optical Engineering, 2017, 56, 067105.	0.5	15
15	Temperature-wavelength dependence of terbium gallium garnet ceramics Verdet constant. Optical Materials Express, 2016, 6, 3683.	1.6	63
16	High-precision group-delay dispersion measurements of optical fibers via fingerprint-spectral wavelength-to-time mapping. Photonics Research, 2016, 4, 13.	3.4	12
17	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	1.3	65
18	Thermally induced depolarization in terbium gallium garnet ceramics rod with natural convection cooling. Journal of Optics (United Kingdom), 2015, 17, 065610.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Wavelength dependence of magneto-optic properties of terbium gallium garnet ceramics. Optics Express, 2015, 23, 13641.	1.7	42
20	Recent Advances on the J-KAREN laser upgrade. , 2015, , .		0
21	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 232-249.	1.9	60
22	Design of a kJ-class HiLASE laser as a driver for inertial fusion energy. High Power Laser Science and Engineering, 2014, 2, .	2.0	15
23	Design of kJ-class HiLASE laser as a driver for inertial fusion energy “ CORRIGENDUM. High Power Laser Science and Engineering, 2014, 2, .	2.0	0
24	Design and optimization of an adaptive optics system for a high-average-power multi-slab laser (HiLASE): erratum. Applied Optics, 2014, 53, 7877.	2.1	0
25	Active wavefront control in Hilase multislabs high-average-power laser system. , 2014, , .		1
26	Design and optimization of an adaptive optics system for a high-average-power multi-slab laser (HiLASE). Applied Optics, 2014, 53, 3255.	0.9	18
27	Efficient ASE Management in Disk Laser Amplifiers With Variable Absorbing Clads. IEEE Journal of Quantum Electronics, 2014, 50, 1-9.	1.0	11
28	Development of the estimation method for thermo-optics effects in the TGG ceramics rod. , 2014, , .		0
29	Optimization of Wavefront Distortions and Thermal-Stress Induced Birefringence in a Cryogenically-Cooled Multislabs Laser Amplifier. IEEE Journal of Quantum Electronics, 2013, 49, 960-966.	1.0	46
30	HiLASE cryogenically-cooled diode-pumped laser prototype for inertial fusion energy. Proceedings of SPIE, 2013, , .	0.8	7
31	Design of high-energy-class cryogenically cooled Yb <sup>3+</sup> :YAG multislabs laser system with low wavefront distortion. Optical Engineering, 2013, 52, 064201.	0.5	20
32	Simulation of performance of wavefront correction using deformable mirror in high-average-power laser systems. , 2013, , .		6
33	Principles and issues related to SBS-PCM based self-navigation of lasers on injected pellets. EPJ Web of Conferences, 2013, 59, 11004.	0.1	0
34	4-Beam combination laser using stimulated Brillouin scattering phase conjugation mirror and its application. , 2011, , .		0
35	Overview and recent progress in SBS PCM approach to self-navigation of lasers on direct drive IFE targets. Proceedings of SPIE, 2011, , .	0.8	1
36	Phase control of SBS PCM seeding by optical interference pattern clarified: Direct applicability for IFE laser driver. Journal of Physics: Conference Series, 2010, 244, 032026.	0.3	1

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37	Current status of the SBS PCM approach to self-navigation of lasers on injected IFE pellets. Journal of Physics: Conference Series, 2010, 244, 032034.	0.3	1
38	Recent Progress Made in the SBS PCM Approach to Self-navigation of Lasers on Direct Drive IFE Targets. Journal of Fusion Energy, 2010, 29, 527-531.	0.5	13
39	SBS PCM Technique Applied for Aiming at IFE Pellets: linebreak First Tests with Amplifiers and Harmonic Conversion. Journal of the Korean Physical Society, 2010, 56, 184-189.	0.3	9
40	Compact Design of Nomarski Interferometer and its Application in Diagnostics of Coulomb Explosions of Deuterium Clusters. Journal of the Korean Physical Society, 2010, 56, 287-294.	0.3	18
41	Phase-locked stimulated Brillouin scattering seeded by a transient acoustic wave excited through an optical interference field. Journal of the Korean Physical Society, 2010, 57, 369-374.	0.3	0