

Ondřej Šlezák

List of Publications by Year in descending order

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42
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532
citing authors

#	ARTICLE	IF	CITATIONS
1	Verdet Constant of Magneto-Active Materials Developed for High-Power Faraday Devices. Applied Sciences (Switzerland), 2019, 9, 3160.	1.3	77
2	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	1.3	65
3	Temperature-wavelength dependence of terbium gallium garnet ceramics Verdet constant. Optical Materials Express, 2016, 6, 3683.	1.6	63
4	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 232-249.	1.9	60
5	Optimization of Wavefront Distortions and Thermal-Stress Induced Birefringence in a Cryogenically-Cooled Multislab Laser Amplifier. IEEE Journal of Quantum Electronics, 2013, 49, 960-966.	1.0	46
6	Wavelength dependence of magneto-optic properties of terbium gallium garnet ceramics. Optics Express, 2015, 23, 13641.	1.7	42
7	Faraday effect measurements of holmium oxide (Ho_2O_3) ceramics-based magneto-optical materials. High Power Laser Science and Engineering, 2018, 6, .	2.0	28
8	Temperature-wavelength dependence of Verdet constant of Dy_2O_3 ceramics. Optical Materials Express, 2019, 9, 2971.	1.6	28
9	Design of high-energy-class cryogenically cooled $\text{Yb}_3+\hat{\alpha}^{\ast}\text{YAG}$ multislab laser system with low wavefront distortion. Optical Engineering, 2013, 52, 064201.	0.5	20
10	Verdet constant of potassium terbium fluoride crystal as a function of wavelength and temperature. Optics Letters, 2020, 45, 1683.	1.7	19
11	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
12	Faraday Rotation of Dy_2O_3 , CeF_3 and $\text{Y}_3\text{Fe}_5\text{O}_{12}$ at the Mid-Infrared Wavelengths. Materials, 2020, 13, 5324.	1.3	18
13	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
14	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
15	Verdet constant dispersion of CeF_3 in the visible and near-infrared spectral range. Optical Engineering, 2017, 56, 067105.	0.5	15
16	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
17	High-precision group-delay dispersion measurements of optical fibers via fingerprint-spectral wavelength-to-time mapping. Photonics Research, 2016, 4, 13.	3.4	12
18	Efficient ASE Management in Disk Laser Amplifiers With Variable Absorbing Clads. IEEE Journal of Quantum Electronics, 2014, 50, 1-9.	1.0	11

#	ARTICLE	IF	CITATIONS
19	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
20	Thermally induced depolarization in terbium gallium garnet ceramics rod with natural convection cooling. Journal of Optics (United Kingdom), 2015, 17, 065610.	1.0	8
21	Femtosecond Yb:YAG ceramic slab regenerative amplifier. Optical Materials Express, 2018, 8, 615.	1.6	8
22	HiLASE cryogenically-cooled diode-pumped laser prototype for inertial fusion energy. Proceedings of SPIE, 2013, , .	0.8	7
23	Simulation of performance of wavefront correction using deformable mirror in high-average-power laser systems. , 2013, , .		6
24	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
25	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
26	Characterization of Bivoj/DiPOLE 100: HiLASE 100-J/10-Hz diode pumped solid state laser. , 2018, , .		3
27	Tensor-to-matrix mapping in elasto-optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1090.	0.9	3
28	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
29	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
30	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
31	Active wavefront control in Hilase multislab high-average-power laser system. , 2014, , .		1
32	4-Beam combination laser using stimulated Brillouin scattering phase conjugation mirror and its application. , 2011, , .		0
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	Design of kJ-class HiLASE laser as a driver for inertial fusion energy â€“ CORRIGENDUM. High Power Laser Science and Engineering, 2014, 2, .	2.0	0
35	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
36	Recent Advances on the J-KAREN laser upgrade. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Characterization of the Verdet Constant of Dy ₂ O ₃ Ceramics in the Two-Micron Spectral Range. , 2019, , .		0
38	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
39	Development of the estimation method for thermo-optics effects in the TGG ceramics rod. , 2014, , .		0
40	Thermo-optical Study of 10 J/ 100 Hz Cryogenically Cooled Yb:YAG Diode Pumped Laser System. , 2019, , .		0
41	JONES MATRIX POLARIMETRY FOR HIGH POWER LASER OPTICAL COMPONENTS. MM Science Journal, 2019, 2019, 3632-3637.	0.2	0