OndÅej SlezÃ¡k

List of Publications by Year in descending order

41 papers	626 citations	567281 15 h-index	580821 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.	3.4	5
2	Faraday Rotation of Dy2O3, CeF3 and Y3Fe5O12 at the Mid-Infrared Wavelengths. Materials, 2020, 13, 5324.	2.9	18
3	Verdet constant of potassium terbium fluoride crystal as a function of wavelength and temperature. Optics Letters, 2020, 45, 1683.	3.3	19
4	Tensor-to-matrix mapping in elasto-optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1090.	2.1	3
5	Verdet Constant of Magneto-Active Materials Developed for High-Power Faraday Devices. Applied Sciences (Switzerland), 2019, 9, 3160.	2.5	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.	1.9	5
7	Characterization of the Verdet Constant of Dy2O3 Ceramics in the Two-Micron Spectral Range. , 2019, , .		0
8	Temperature-wavelength dependence of Verdet constant of Dy₂O₃ ceramics. Optical Materials Express, 2019, 9, 2971.	3.0	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.	0.4	0
11	Faraday effect measurements of holmium oxide (Ho₂O₃) ceramics-based magneto-optical materials. High Power Laser Science and Engineering, 2018, 6, .	4.6	28
12	Femtosecond Yb:YGAG ceramic slab regenerative amplifier. Optical Materials Express, 2018, 8, 615.	3.0	8
13	Characterization of Bivoj/DiPOLE 100: HiLASE 100-J/10-Hz diode pumped solid state laser. , 2018, , .		3
14	Verdet constant dispersion of CeF₃ in the visible and near-infrared spectral range. Optical Engineering, 2017, 56, 067105.	1.0	15
15	Temperature-wavelength dependence of terbium gallium garnet ceramics Verdet constant. Optical Materials Express, 2016, 6, 3683.	3.0	63
16	High-precision group-delay dispersion measurements of optical fibers via fingerprint-spectral wavelength-to-time mapping. Photonics Research, 2016, 4, 13.	7.0	12
17	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	2.5	65
18	Thermally induced depolarization in terbium gallium garnet ceramics rod with natural convection cooling. Journal of Optics (United Kingdom), 2015, 17, 065610.	2.2	8

#	Article	IF	Citations
19	Wavelength dependence of magneto-optic properties of terbium gallium garnet ceramics. Optics Express, 2015, 23, 13641.	3.4	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.	2.9	60
22	Design of a kJ-class HiLASE laser as a driver for inertial fusion energy. High Power Laser Science and Engineering, 2014, 2, .	4.6	15
23	Design of kJ-class HiLASE laser as a driver for inertial fusion energy â€“ CORRIGENDUM. High Power Laser Science and Engineering, 2014, 2, .	4.6	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 multislab 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.	1.8	18
27	Efficient ASE Management in Disk Laser Amplifiers With Variable Absorbing Clads. IEEE Journal of Quantum Electronics, 2014, 50, 1-9.	1.9	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 Multislab Laser Amplifier. IEEE Journal of Quantum Electronics, 2013, 49, 960-966.	1.9	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 Yb3+âˆ¶YAG multislab laser system with low wavefront distortion. Optical Engineering, 2013, 52, 064201.	1.0	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.	0.3	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.	0.4	1

#	Article	IF	Citations
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.	0.4	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.	1.2	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.	0.7	9
40	Compact Design of Nomarski Interferometer and its Applicationin Diagnostics of Coulomb Explosions of Deuterium Clusters. Journal of the Korean Physical Society, 2010, 56, 287-294.	0.7	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.	0.7	0