

# Martin Divoky

## List of Publications by Year in descending order

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71  
papers

704  
citations

687363

13  
h-index

552781

26  
g-index

72  
all docs

72  
docs citations

72  
times ranked

417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme laser pulse-energy measurements by means of photon momentum. Optics Express, 2022, 30, 7383-7393.	3.4	1
2	Morphology of Meteorite Surfaces Ablated by High-Power Lasers: Review and Applications. Applied Sciences (Switzerland), 2022, 12, 4869.	2.5	2
3	150 J DPSSL operating at 1.5 kW level. Optics Letters, 2021, 46, 5771.	3.3	32
4	Experimental Study of Nanosecond Laser-Generated Plasma Channels. Applied Sciences (Switzerland), 2020, 10, 4082.	2.5	1
5	Performance comparison of Yb:YAG ceramics and crystal gain material in a large-area, high-energy, high average-power diode-pumped laser. Optics Express, 2020, 28, 3636.	3.4	11
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	Design of a 10 J, 100 Hz diode-pumped solid state laser. , 2019, , .		2
8	Thermo-optical Study of 10 J/ 100 Hz Cryogenically Cooled Yb:YAG Diode Pumped Laser System. , 2019, , .		0
9	Monocrystalline materials for high-power ultrafast lasers. , 2019, , .		0
10	CURRENT ADVANCES IN HIGH AVERAGE POWER DIODE-PUMPED LASERS. MM Science Journal, 2019, 2019, 3626-3631.	0.4	0
11	Status and Development of High Average Power Lasers at HiLASE. , 2018, , .		0
12	100J-level nanosecond pulsed Yb:YAG cryo-cooled DPSSL amplifier. , 2018, , .		1
13	Characterization of Bivoj/DiPOLE 100: HiLASE 100-J/10-Hz diode pumped solid state laser. , 2018, , .		3
14	A 100J-level nanosecond pulsed DPSSL for pumping high-efficiency, high-repetition rate PW-class lasers. Proceedings of SPIE, 2017, , .	0.8	3
15	A 100 J-level nanosecond DPSSL for high energy density experiments. Proceedings of SPIE, 2017, , .	0.8	1
16	Commissioning of a kW-class nanosecond pulsed DPSSL operating at 105 J, 10 Hz. Proceedings of SPIE, 2017, , .	0.8	2
17	The first kilowatt average power 100J-level DPSSL. , 2017, , .		0
18	Kilowatt average power 100 J-level diode pumped solid state laser. Optica, 2017, 4, 438.	9.3	152

#	ARTICLE	IF	CITATIONS
19	kW-class picosecond and nanosecond lasers at Hilase for hi-tech industrial applications. , 2017, , .		0
20	The first multi-joule DPSSL with 1 kW average power. , 2017, , .		0
21	Laser beam distribution system for the HiLASE Center. , 2017, , .		1
22	HiLASE: a scalable option for Laser Inertial Fusion Energy. Journal of Physics: Conference Series, 2016, 688, 012060.	0.4	1
23	Comparative LIDT measurements of optical components for high-energy HiLASE lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	11
24	100 J-level nanosecond pulsed diode pumped solid state laser. Optics Letters, 2016, 41, 2089.	3.3	73
25	A 100J-level nanosecond pulsed DPSSL. , 2016, , .		1
26	Development of 1 J, 100 Hz Yb:YAG laser amplifier system for OPCPA pumping. , 2015, , .		0
27	A Solid State 100 mJ Diode Pumped Temporally and Spatially Shaped Front End System for Seeding a 10 Hz 100 J Laser System. , 2015, , .		2
28	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	2.5	65
29	Experimental benchmarking of the code for Yb:YAG multi-slab gas-cooled laser system operating at cryogenic temperatures. , 2015, , .		0
30	Joule-class 940 nm diode laser bars for millisecond pulse applications. , 2015, , .		0
31	Assessment of high-power kW-class single-diode bars for use in highly efficient pulsed solid state laser systems. , 2015, , .		0
32	DiPOLE100: A 100 J, 10 Hz DPSSL using cryogenic gas cooled Yb:YAG multi slab amplifier technology. , 2015, , .		13
33	Wavefront control in high average-power multi-slab laser system. , 2015, , .		1
34	Tunable diode laser absorption spectroscopy on 2.05 $\mu\text{m}$ for the CO <sub>2</sub> concentration measurement. Proceedings of SPIE, 2015, , .	0.8	0
35	HiLASE: development of fully diode pumped disk lasers with high average power. , 2015, , .		1
36	1-J operation of monolithic composite ceramics with Yb:YAG thin layers: multi-TRAM at 10-Hz repetition rate and prospects for 100-Hz operation. Optics Letters, 2015, 40, 855.	3.3	24

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37	Joule-Class 940-nm Diode Laser Bars for Millisecond Pulse Applications. IEEE Photonics Technology Letters, 2015, 27, 1663-1666.	2.5	7
38	New possibilities for efficient laser surface treatment by diode-pumped kW-class lasers. Journal of Engineering, 2015, 2015, 158-160.	1.1	1
39	High-Contrast, Closed-Loop Control of Laser Beam Profiles. , 2015, , .		0
40	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
41	Design of kJ-class HiLASE laser as a driver for inertial fusion energy " CORRIGENDUM. High Power Laser Science and Engineering, 2014, 2, .	4.6	0
42	Generation of 500-mJ nanosecond pulses from a diode-pumped Yb:YAG TRAM laser amplifier. Optical Materials Express, 2014, 4, 2122.	3.0	15
43	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
44	Frequency Doubling at 7J of a High Energy, High Repetition Rate DPSSL System. , 2014, , .		0
45	Active wavefront control in Hilase multislabs high-average-power laser system. , 2014, , .		1
46	Characterization of diode-laser stacks for high-energy-class solid state lasers. Proceedings of SPIE, 2014, , .	0.8	1
47	Overview of the HiLASE project: high average power pulsed DPSSL systems for research and industry. High Power Laser Science and Engineering, 2014, 2, .	4.6	43
48	Mismatch characteristics of optical parametric chirped pulse amplification. Laser Physics Letters, 2014, 11, 025401.	1.4	0
49	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
50	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.	1.9	46
51	Spectroscopic characterization of various Yb <sup>3+</sup> -doped laser materials at cryogenic temperatures for the development of high energy class diode pumped solid state lasers. Proceedings of SPIE, 2013, , .	0.8	13
52	Design of a petawatt optical parametric chirped pulse amplification upgrade of the kilojoule iodine laser PALS. Laser and Particle Beams, 2013, 31, 211-218.	1.0	11
53	HiLASE cryogenically-cooled diode-pumped laser prototype for inertial fusion energy. Proceedings of SPIE, 2013, , .	0.8	7
54	Design of high-energy-class cryogenically cooled Yb <sup>3+</sup> :YAG multislabs laser system with low wavefront distortion. Optical Engineering, 2013, 52, 064201.	1.0	20

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55	Simulation of performance of wavefront correction using deformable mirror in high-average-power laser systems. , 2013, , .		6
56	Effect of amplified spontaneous emission and parasitic oscillations on the performance of cryogenically-cooled slab amplifiers. Laser and Particle Beams, 2013, 31, 553-560.	1.0	8
57	Conceptual design of 100 J cryogenically-cooled multi-slab laser for fusion research. EPJ Web of Conferences, 2013, 59, 08004.	0.3	2
58	Status of HiLASE project: High average power pulsed DPSSL systems for research and industry. EPJ Web of Conferences, 2013, 59, 08003.	0.3	2
59	Cryogenic cooling for high power laser amplifiers. EPJ Web of Conferences, 2013, 59, 08005.	0.3	0
60	100-J level amplifier concepts for HiLASE and ELI-Beamlines. , 2012, , .		0
61	Femtosecond pulse parametric amplification at narrowband high power gas laser pumping. Optics Letters, 2012, 37, 2100.	3.3	4
62	Modeling of amplified spontaneous emission, heat deposition, and energy extraction in cryogenically cooled multislabs Yb <sup>3+</sup> :YAG laser amplifier for the HiLASE Project. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1270.	2.1	45
63	Broadband OPCPA pumped by ultra-narrowband gaseous iodine laser. , 2012, , .		1
64	Comparative design study of 100 J cryogenically cooled Yb:YAG multi-slab amplifiers operating at 10 Hz. , 2012, , .		2
65	Performance of a 100J cryogenically cooled multi-slab amplifier with respect to the pump beam parameters and geometry. Proceedings of SPIE, 2012, , .	0.8	2
66	Numerical evaluation of heat deposition in cryogenically cooled multi-slab amplifier. Proceedings of SPIE, 2011, , .	0.8	0
67	Outline of the ELI-Beamlines facility. Proceedings of SPIE, 2011, , .	0.8	17
68	Pulse Stretcher Diagnostics by Camera and Color Filters. , 2010, , .		0
69	Simple two-dimensional-imaging spectrograph with wedged narrow band filters. Review of Scientific Instruments, 2008, 79, 123114.	1.3	7
70	Solid-state-gas-laser SOFIA as a pump for the optical parametric chirped pulse amplification. , 2005, , .		0
71	Pulse stretcher for chirped-pulse amplification with high-power and spectral transmissions. , 2005, , .		0