Tomas Mocek

List of Publications by Year in descending order

386 papers	5,029 citations	101543 36 h-index	123424 61 g-index
386 all docs	386 docs citations	386 times ranked	3301 citing authors

#	Article	IF	Citations
1	The effect of laser shock peening with and without protective coating on intergranular corrosion of sensitized AA5083. Corrosion Science, 2022, 194, 109925.	6.6	20
2	Spectral broadening and a prospect for pulse compression of Yb:YAG thin-disk laser pulses by nonlinear SHG in a BBO crystal with time predelay and tilting of the pulse fronts. , 2022, 1, 16.		0
3	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
4	Analysis of broadband mid-infrared optical parametric amplification based on LiGaS₂, LiGaSe₂, LiInS₂, and LiInSe₂ crystals. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1174.	2.1	1
5	Qualification of 1030 nm ultra-short-pulsed laser for glass sheet treatment in TGV process. , 2022, , .		0
6	Fatigue life enhancement of additive manufactured 316l stainless steel by LSP using a DPSS laser system. Surface Engineering, 2022, 38, 183-190.	2.2	14
7	Morphology of Meteorite Surfaces Ablated by High-Power Lasers: Review and Applications. Applied Sciences (Switzerland), 2022, 12, 4869.	2.5	2
8	Difference Frequency Generation in BaGa4Se7 Tunable in a 6.5-8.5 Î¼m Range with a Peak Power of 30 MW Pumped by 1.03 Î¼m, 1.8 ps Laser. , 2022, , .		1
9	Diode pumped cryogenic Yb:Lu3Al5O12 laser in continuous-wave and pulsed regime. Optics and Laser Technology, 2021, 135, 106720.	4.6	6
10	Monoclinic zinc monotungstate Yb3+,Li+:ZnWO4: Part II. Polarized spectroscopy and laser operation. Journal of Luminescence, 2021, 231, 117811.	3.1	5
11	Diode-pumped, electro-opticallyQ-switched, cryogenic Tm:YAG laser operating at 1.88 Î¼m. High Power Laser Science and Engineering, 2021, 9, .	4.6	7
12	Silicon Brewster plate wavelength separator for a mid-IR optical parametric source. Applied Optics, 2021, 60, 281.	1.8	1
13	Laser Annealing of Anodic TiO2 Nanotubes: Explosive Solid Phase Crystallization into Anatase. , 2021, , .		0
14	Picosecond thin-disk laser platform PERLA for multi-beam micromachining. OSA Continuum, 2021, 4, 940.	1.8	17
15	Anti-Reflection Nanostructures on Tempered Glass by Dynamic Beam Shaping. Micromachines, 2021, 12, 289.	2.9	9
16	Diode-pumped master oscillator power amplifier system based on cryogenically cooled Tm:Y2O3 transparent ceramics. Optical Materials Express, 2021, 11, 1489.	3.0	4
17	Compact, diode-pumped, unstable cavity Yb:YAG laser and its application in laser shock peening. Optics Express, 2021, 29, 15724.	3.4	2
18	Picosecond VIS, UV and Deep UV Beams Generated at 100 kHz Diode-Pumped Yb:YAG Thin Disk Laser System. , 2021, , .		0

#	Article	IF	Citations
19	2 Î¼m MOPA Laser Based on Cryogenically Cooled Tm:Y2O3 Transparent Ceramic. , 2021, , .		0
20	Towards Rapid Fabrication of Superhydrophobic Surfaces by Multi-Beam Nanostructuring with 40,401 Beams. Nanomaterials, 2021, 11, 1987.	4.1	8
21	150 J DPSSL operating at 1.5 kW level. Optics Letters, 2021, 46, 5771.	3.3	32
22	Influence of the CVBG compressor on output parameters of high-power and high-energy laser beam. , 2021, , .		0
23	Lasing performance of crystalline-coated Yb:YAG thin disks. , 2021, , .		1
24	Hydrophilic to ultrahydrophobic transition of Al 7075 by affordable ns fiber laser and vacuum processing. Applied Surface Science, 2020, 505, 144523.	6.1	41
25	Fabrication of functional superhydrophobic surfaces on carbon fibre reinforced plastics by IR and UV direct laser interference patterning. Applied Surface Science, 2020, 508, 144817.	6.1	20
26	Faraday Rotation of Dy2O3, CeF3 and Y3Fe5O12 at the Mid-Infrared Wavelengths. Materials, 2020, 13, 5324.	2.9	18
27	Micromachining of Invar with 784 Beams Using 1.3 ps Laser Source at 515 nm. Materials, 2020, 13, 2962.	2.9	14
28	Large-Beam Picosecond Interference Patterning of Metallic Substrates. Materials, 2020, 13, 4676.	2.9	13
29	Laser-induced crystallization of anodic TiO₂ nanotube layers. RSC Advances, 2020, 10, 22137-22145.	3.6	23
30	Spectroscopy and diode-pumped continuous-wave laser operation of Tm:Y2O3 transparent ceramic at cryogenic temperatures. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	10
31	Experimental Study of Nanosecond Laser-Generated Plasma Channels. Applied Sciences (Switzerland), 2020, 10, 4082.	2.5	1
32	Balancing the conversion efficiency and beam quality of second harmonic generation of a two-picosecond Yb:YAG thin-disk laser. Laser Physics, 2020, 30, 025405.	1.2	7
33	Investigation of spectrally-dependent phonon relaxation mechanism in Yb:YAG gain media and its consequences for thin disk laser performance. Laser Physics, 2020, 30, 025005.	1.2	1
34	Experimental study on compression of 216-W laser pulses below 2â€‰â€‰ps at 1030â€‰â€‰nm with chirped volume Bragg grating. Applied Optics, 2020, 59, 7938.	1.8	10
35	Numerical analysis of beam distortion induced by thermal effects in chirped volume Bragg grating compressors for high-power lasers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3874.	2.1	5
36	Performance comparison of Yb:YAG ceramics and crystal gain material in a large-area, high-energy, high averageâ€“power diode-pumped laser. Optics Express, 2020, 28, 3636.	3.4	11

#	Article	IF	Citations
37	Spectroscopy and diode-pumped laser operation of transparent Tm:Lu₃Al₅O₁₂ ceramics produced by solid-state sintering. Optics Express, 2020, 28, 28399.	3.4	6
38	Verdet constant of potassium terbium fluoride crystal as a function of wavelength and temperature. Optics Letters, 2020, 45, 1683.	3.3	19
39	Multi-watt continuous-wave and passively Q-switched Tm:CaYAlO4 micro-lasers. , 2020, , .		0
40	Shaping of picosecond laser pulses by second harmonic generation with time predelay. , 2020, , .		1
41	Tensor-to-matrix mapping in elasto-optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1090.	2.1	3
42	Multiple pulse picosecond laser induced damage threshold on hybrid mirrors. , 2020, , .		0
43	Numerical study of sum frequency ultrashort pulse compression in borate crystals. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3229.	2.1	2
44	Verdet Constant of Magneto-Active Materials Developed for High-Power Faraday Devices. Applied Sciences (Switzerland), 2019, 9, 3160.	2.5	77
45	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
46	Efficient diode pumped Yb:Y2O3 cryogenic laser. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	7
47	Non-fluorinated superhydrophobic Al7075 aerospace alloy by ps laser processing. Applied Surface Science, 2019, 493, 287-293.	6.1	53
48	Single Shot M2 Measurement for Near Infrared Laser Pulses in Real-Time. , 2019, , .		0
49	Picosecond Deep Ultraviolet Pulses Generated in Excess of the 1030 nm Fundamental Beam. , 2019, , .		0
50	Characterization of the Verdet Constant of Dy2O3 Ceramics in the Two-Micron Spectral Range. , 2019, , .		0
51	Nanostructure fabrication on the top of laser-made micropillars for enhancement of water repellence of aluminium alloy. Materials Letters, 2019, 256, 126601.	2.6	19
52	LIPSS on thin metallic films: New insights from multiplicity of laser-excited electromagnetic modes and efficiency of metal oxidation. Applied Surface Science, 2019, 491, 650-658.	6.1	50
53	Generating 84 fs, 4 nJ directly from an Yb-doped fiber oscillator by optimization of the net dispersion. Laser Physics, 2019, 29, 065105.	1.2	2
54	A high-brightness room temperature 2.7 Âµm Er:Y₂O₃ ceramic laser. Laser Physics Letters, 2019, 16, 035801.	1.4	8

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55	Peak Power Enhancement of Yb:YAG Laser Pulses by Second Harmonic Generation with Time Predelay in Borate Crystals. , 2019, , .		0
56	Dependencies of Picosecond Pulse Driven Supercontinuum Properties on Repetition Rate. , 2019, , .		0
57	Diode â€" Pumped Efficient Cryogenic Yb:Y2O3 Transparent Ceramic Laser. , 2019, , .		0
58	Spectroscopy, Continuous-Wave and Passively Q-Switched Laser Operation of Transparent Tm:LuAG Ceramics. , 2019, , .		0
59	Spectroscopy of Tm:Y2O3 Transparent Ceramic at Cryogenic Temperatures. , 2019, , .		0
60	Development of a High-Quality Epoxy Bonding Technology. , 2019, , .		0
61	Effect of Gd3+/Ga3+ on Yb3+ emission in mixed YAG at cryogenic temperature. Ceramics International, 2019, 45, 9418-9422.	4.8	5
62	Characteristics of a high-power picosecond mid-IR parametric generator/amplifier tunable between 1.5 and 3.2 Î¼m. , 2019, , .		3
63	Design of a 10 J, 100 Hz diode-pumped solid state laser. , 2019, , .		2
64	Novel unstable resonator configuration for highly efficient cryogenically cooled Yb:YAG Q-switched laser. Optics Express, 2019, 27, 21622.	3.4	8
65	New observations on DUV radiation at 257â€...nm and 206â€...nm produced by a picosecond diode pumped thin-disk laser. Optics Express, 2019, 27, 24286.	3.4	21
66	Temperature-wavelength dependence of Verdet constant of Dy₂O₃ ceramics. Optical Materials Express, 2019, 9, 2971.	3.0	28
67	Laser performances of diode pumped Yb:Lu₂O₃ transparent ceramic at cryogenic temperatures. Optical Materials Express, 2019, 9, 4669.	3.0	8
68	Synthesis, Spectroscopy and Efficient Laser Operation of Tm:Lu3Al5O12 Transparent Ceramics. , 2019, , .		0
69	Concepts for Adapting Highly Efficient Diode Pumped Laser Technology for Laser Shock Peening. , 2019, , .		0
70	Thermo-optical Study of 10 J/ 100 Hz Cryogenically Cooled Yb:YAG Diode Pumped Laser System. , 2019, , .		0
71	Picosecond deep ultraviolet pulses generated by a 100 kHz thin-disk laser system. , 2019, , .		2
72	Importance of Laser Induced Damage Threshold for Laser Applications. , 2019, , .		0

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73	Highly efficient, cryogenically cooled Yb:YAG q-switch laser based on a gain modulated unstable resonator design. , 2019, , .		0
74	Monocrystalline materials for high-power ultrafast lasers. , 2019, , .		0
75	Diode-pumped cryogenic Tm:LiYF4 laser. , 2019, , .		1
76	Single-shot laser beam parameter measurement system for near-infrared laser beams. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3098.	2.1	0
77	Comparison of multipulse nanosecond LIDT of HR coated YAG and glass substrates at 1030 nm. , 2019, , .		0
78	Mobile LIDT. , 2019, , .		0
79	Modular laser beam distribution system for the HiLASE Center. , 2019, , .		0
80	EUV SOURCE AT HiLASE: THE STATE OF THE ART. MM Science Journal, 2019, 2019, 3406-3409.	0.4	0
81	Highly Efficient, Compact Tm3+:RE2O3 (RE = Y, Lu, Sc) Sesquioxide Lasers Based on Thermal Guiding. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-13.	2.9	40
82	Faraday effect measurements of holmium oxide (Ho₂O₃) ceramics-based magneto-optical materials. High Power Laser Science and Engineering, 2018, 6, .	4.6	28
83	Crystal growth, low-temperature spectroscopy and multi-watt laser operation of Yb:Ca3NbGa3Si2O14. Journal of Luminescence, 2018, 197, 90-97.	3.1	9
84	Overview of ytterbium based transparent ceramics for diode pumped high energy solid-state lasers. High Power Laser Science and Engineering, 2018, 6, .	4.6	14
85	Passive Q switching of Yb:CNGS lasers by Cr⁴⁺:YAG and V³⁺:YAG saturable absorbers. Applied Optics, 2018, 57, 8236.	1.8	2
86	Initiation of air ionization by ultrashort laser pulses: evidence for a role of metastable-state air molecules. Journal Physics D: Applied Physics, 2018, 51, 25LT02.	2.8	9
87	Spectroscopic investigations of thulium doped YAG and YAP crystals between 77â€¯K and 300â€¯K for short-wavelength infrared lasers. Journal of Luminescence, 2018, 202, 427-437.	3.1	26
88	Efficient diode-pumped Er:KLu(WO_4)_2 laser at â¼161â€‰â€‰Î¼m. Optics Letters, 2018, 43, 218.	3.3	6
89	Femtosecond 85â€‰â€‰Î¼m source based on intrapulse difference-frequency generation of 21â€‰â€‰Î¼m pulses. Optics Letters, 2018, 43, 1335.	3.3	36
90	Femtosecond Yb:YGAG ceramic slab regenerative amplifier. Optical Materials Express, 2018, 8, 615.	3.0	8

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91	High power picosecond parametric mid-IR source tunable between 17 and 26â€‰â€‰Î¼m. Applied Optics, 2018, 57, 8412.	1.8	5
92	High Power Picosecond Parametric Mid-IR Source Tunable Between 1.5 and 3.2 Î¼m. , 2018, , .		1
93	Fs-laser-written erbium-doped double tungstate waveguide laser. Optics Express, 2018, 26, 30826.	3.4	9
94	High-Energy Burst Mode Thin-disk Multipass Amplifier for Laser Compton X-ray Source. , 2018, , .		1
95	Large Scale Single Crystal Growth. , 2018, , .		0
96	A Femtosecond 8.5 Î¼m Source Based on Intrapulse Difference-Frequency Generation of 2.1 Î¼m Pulses. , 2018, , .		0
97	Development of experimental station for laser shock peening at HiLASE. , 2018, , .		0
98	100J-level nanosecond pulsed Yb:YAG cryo-cooled DPSSL amplifier. , 2018, , .		1
99	Ten-watt level picosecond parametric mid-IR source broadly tunable in wavelength. , 2018, , .		0
100	Characterization of Bivoj/DiPOLE 100: HiLASE 100-J/10-Hz diode pumped solid state laser. , 2018, , .		3
101	Generation of 1-J bursts with picosecond pulses from Perla B thin-disk laser system. , 2018, , .		0
102	Wavefront correction with photo-controlled deformable mirror. , 2018, , .		0
103	High-energy subpicosecond 2.1-um fiber laser. , 2018, , .		0
104	HILASE center: development of new-generation lasers for laser shock peening. , 2018, , .		1
105	Laser induced damage in optical glasses using nanosecond pulses at 1030 nm. , 2018, , .		0
106	Multiple pulse nanosecond laser-induced damage threshold on AR coated YAG crystals. , 2018, , .		1
107	A 100J-level nanosecond pulsed DPSSL for pumping high-efficiency, high-repetition rate PW-class lasers. Proceedings of SPIE, 2017, , .	0.8	3
108	Lasing and thermal characteristics of Yb:YAG/YAG composite with atomic diffusion bonding. Laser Physics Letters, 2017, 14, 015001.	1.4	21

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109	Investigation and modelling of pump saturation effect on thermal load of Yb:YAG thin disk pumped at various wavelengths. Proceedings of SPIE, 2017, , .	0.8	0
110	A 100 J-level nanosecond DPSSL for high energy density experiments. Proceedings of SPIE, 2017, , .	0.8	1
111	Commissioning of a kW-class nanosecond pulsed DPSSL operating at 105 J, 10 Hz. Proceedings of SPIE, 2017, , .	0.8	2
112	Laser-induced periodic surface structures formation: investigation of the effect of nonlinear absorption of laser energy in different materials. Proceedings of SPIE, 2017, , .	0.8	7
113	Wavefront aberration measurement in a cryogenically cooled Yb:YAG slab using a wavefront sensor. , 2017, , .		1
114	Temperature dependent spectroscopic characterization of Tm:YAG crystals as potential laser medium for pulsed high energy laser amplifiers. , 2017, , .		1
115	Development of 2.7-Î¼m Er:Y2O₃ ceramic laser operated at room temperature. Proceedings of SPIE, 2017, , .	0.8	0
116	Verdet constant dispersion of CeF₃ in the visible and near-infrared spectral range. Optical Engineering, 2017, 56, 067105.	1.0	15
117	High-speed manufacturing of highly regular femtosecond laser-induced periodic surface structures: physical origin of regularity. Scientific Reports, 2017, 7, 8485.	3.3	251
118	Demonstration of laser oscillation of an Yb-doped Y<inf>2</inf>O<inf>3</inf> composite disk by use of atomic diffusion bonding in room temperature. , 2017, , .		0
119	The first kilowatt average power 100J-level DPSSL. , 2017, , .		0
120	HiLASE: New lasers for industry and research. , 2017, , .		0
121	How new laser development can help laser shock peening penetration to widen industrial applications?. , 2017, , .		4
122	Continuous-wave and passively Q-switched cryogenic Yb:KLu(WO_4)_2 laser. Optics Express, 2017, 25, 25886.	3.4	4
123	Cryogenic Yb:YGAG ceramic laser pumped at 940 nm and zero-phonon-line: a comparative study. Optical Materials Express, 2017, 7, 477.	3.0	0
124	Kilowatt average power 100â€‰â€‰J-level diode pumped solid state laser. Optica, 2017, 4, 438.	9.3	152
125	Advances in High-Power, Ultrashort Pulse DPSSL Technologies at HiLASE. Applied Sciences (Switzerland), 2017, 7, 1016.	2.5	42
126	kW-class picosecond and nanosecond lasers at Hilase for hi-tech industrial applications. , 2017, , .		0

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127	The first multi-joule DPSSL with 1 kW average power. , 2017, , .		0
128	kW-class picosecond thin-disc prepulse laser Perla for efficient EUV generation. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2017, 16, 1.	0.9	3
129	Microchip Yb:CaLnAlO_4 lasers with up to 91% slope efficiency. Optics Letters, 2017, 42, 2431.	3.3	57
130	Wavelength Tunable Picosecond Parametric Mid-IR Source Pumped by a High Power Thin-Disk Laser. , 2017, , .		0
131	Diode-pumped femtosecond Yb:YGAG regenerative amplifier. , 2017, , .		0
132	Wavelength tunable parametric mid-IR source pumped by a high power picosecond thin-disk laser. , 2017, , .		0
133	Multiple pulse nanosecond laser induced damage threshold on hybrid mirrors. , 2017, , .		2
134	A practical model of thin disk regenerative amplifier based on analytical expression of ASE lifetime. , 2017, , .		0
135	Laser beam distribution system for the HiLASE Center. , 2017, , .		1
136	Temperature-wavelength dependence of terbium gallium garnet ceramics Verdet constant. Optical Materials Express, 2016, 6, 3683.	3.0	63
137	Picosecond green and deep ultraviolet pulses generated by a high-power 100â€‰â€‰kHz thin-disk laser. Optics Letters, 2016, 41, 5210.	3.3	26
138	Innovative opto-mechanical design of a laser head for compact thin-disk. Proceedings of SPIE, 2016, , .	0.8	0
139	Mechanisms of high-regularity periodic structuring of silicon surface by sub-MHz repetition rate ultrashort laser pulses. Applied Physics Letters, 2016, 109, .	3.3	56
140	Laser induced damage threshold of optical fibers under ns pulses. Proceedings of SPIE, 2016, , .	0.8	1
141	Design of deformable mirrors for high power lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	10
142	Ultrashort pulse laser ablation of dielectrics: Thresholds, mechanisms, role of breakdown. Scientific Reports, 2016, 6, 39133.	3.3	110
143	HiLASE: a scalable option for Laser Inertial Fusion Energy. Journal of Physics: Conference Series, 2016, 688, 012060.	0.4	1
144	Time-resolved measurement of thermally induced aberrations in a cryogenically cooled Yb:YAG slab with a wavefront sensor. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	4

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145	Microchip laser operation of Yb-doped gallium garnets. Optical Materials Express, 2016, 6, 46.	3.0	31
146	Comparative LIDT measurements of optical components for high-energy HiLASE lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	11
147	Cryogenic Yb:YAG Laser Pumped by VBG-Stabilized Narrowband Laser Diode at 969 nm. IEEE Photonics Technology Letters, 2016, 28, 1328-1331.	2.5	14
148	3-D Particle-in-Cell Simulation of Laser-Produced Plasma in Axial Magnetic Field. IEEE Transactions on Plasma Science, 2016, 44, 574-581.	1.3	3
149	Design of an Optimized Adaptive Optics System With a Photo-Controlled Deformable Mirror. IEEE Photonics Technology Letters, 2016, 28, 1422-1425.	2.5	3
150	Picosecond pulses in deep ultraviolet (257.5 nm and 206 nm) and mid-IR produced by a high-power 100 kHz solid-state thin-disk laser. Proceedings of SPIE, 2016, , .	0.8	1
151	Development of a kW-level picosecond thin-disk regenerative amplifier with a ring cavity. , 2016, , .		0
152	100â€‰â€‰J-level nanosecond pulsed diode pumped solid state laser. Optics Letters, 2016, 41, 2089.	3.3	73
153	Zero-phonon-line pumped cryogenic Yb:YAG passively Q-switched by Cr:YAG. Proceedings of SPIE, 2016, , .	0.8	0
154	Cryogenically-cooled Yb:YGAG ceramic picosecond oscillator. Proceedings of SPIE, 2016, , .	0.8	0
155	Relaxation dynamics of femtosecond-laser-induced temperature modulation on the surfaces of metals and semiconductors. Applied Surface Science, 2016, 374, 157-164.	6.1	72
156	Diode pumped compact cryogenic Yb:YAG/Cr:YAG pulsed laser. Proceedings of SPIE, 2016, , .	0.8	4
157	Progress in kW-class picosecond thin-disk lasers development at the HiLASE. Proceedings of SPIE, 2016, , .	0.8	5
158	Ultrashort-pulse laser processing of transparent materials: insight from numerical and semi-analytical models. Proceedings of SPIE, 2016, , .	0.8	7
159	Cryogenically-cooled Yb:YGAG ceramic mode-locked laser. Optics Express, 2016, 24, 1402.	3.4	6
160	Parametric Mid-IR Source Pumped by a High Power Picosecond Thin-Disk Laser. , 2016, , .		0
161	A 100J-level nanosecond pulsed DPSSL. , 2016, , .		1
162	Development of short pulse CO2 laser for efficient rare earth plasma extreme ultraviolet sources. , 2015, , .		0

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163	Laser fluence dependence of periodic structures on metals produced by femtosecond double pulse laser. , 2015, , .		0
164	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	2.5	65
165	EUV ablation: a study of the process. , 2015, , .		2
166	Cooling options for high-average-power laser mirrors. , 2015, , .		1
167	Experimental benchmarking of the code for Yb:YAG multi-slab gas-cooled laser system operating at cryogenic temperatures. , 2015, , .		0
168	Picosesond pulses in deep ultraviolet produced by a 100 kHz solid-state thin disk laser. Proceedings of SPIE, 2015, , .	0.8	0
169	Temperature dependent absorption measurement of various transition metal doped laser materials. Proceedings of SPIE, 2015, , .	0.8	2
170	Amplification of picosecond pulses to 100 W by an Yb:YAG thin-disk with CVBG compressor. , 2015, , .		9
171	Joule-class 940 nm diode laser bars for millisecond pulse applications. , 2015, , .		0
172	How to optimize ultrashort pulse laser interaction with glass surfaces in cutting regimes?. Applied Surface Science, 2015, 336, 364-374.	6.1	35
173	Wavelength tunability of laser based on Yb-doped YGAG ceramics. , 2015, , .		2
174	First experimental test of quadrupole lens-free multiple profile monitor technique for electron beam emittance measurement with a PW laser system. Proceedings of SPIE, 2015, , .	0.8	0
175	Single shot M²measurement for near infrared high energy laser pulses. Proceedings of SPIE, 2015, , .	0.8	0
176	Thermally induced depolarization in terbium gallium garnet ceramics rod with natural convection cooling. Journal of Optics (United Kingdom), 2015, 17, 065610.	2.2	8
177	Laser-induced ion acceleration at ultra-high laser intensities. Radiation Effects and Defects in Solids, 2015, 170, 271-277.	1.2	3
178	Assessment of high-power kW-class single-diode bars for use in highly efficient pulsed solid state laser systems. , 2015, , .		0
179	Design and development of the HELL user station: beam transport, characterization, and shielding. , 2015, , .		1
180	Timing jitter measurement and stabilization of a mode-locked ytterbium fiber laser. Proceedings of SPIE, 2015, , .	0.8	0

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181	Precise curvature measurement of Yb:YAG thin disk. , 2015, , .		4
182	Focal spot of femtosecond laser pulse under tight focusing condition. Proceedings of SPIE, 2015, , .	0.8	0
183	Experimental and theoretical study of deformable mirror actuator arrays. Proceedings of SPIE, 2015, , .	0.8	0
184	Wavefront control in high average-power multi-slab laser system. , 2015, , .		1
185	HiLASE Project: high intensity lasers for industrial and scientific applications. , 2015, , .		0
186	Tunable diode laser absorption spectroscopy on 2.05 Î¼m for the CO₂concentration measurement. Proceedings of SPIE, 2015, , .	0.8	0
187	Periodic surface structures on titanium self-organized upon double femtosecond pulse exposures. Applied Surface Science, 2015, 336, 349-353.	6.1	29
188	Formation of laser induced periodic surface structures (LIPSS) on Ti upon double fs pulse exposure. , 2015, , .		0
189	Development of a closed-loop cryogenically cooled sub-picosecond regenerative amplifier. , 2015, , .		0
190	HiLASE: development of fully diode pumped disk lasers with high average power. , 2015, , .		1
191	Collimation of laser-produced plasmas using axial magnetic field. Laser and Particle Beams, 2015, 33, 175-182.	1.0	25
192	Graphene Q-Switched Compact Yb:YAG Laser. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	15
193	Wavelength dependence of magneto-optic properties of terbium gallium garnet ceramics. Optics Express, 2015, 23, 13641.	3.4	42
194	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
195	Spatio-temporal modification of femtosecond focal spot under tight focusing condition. Optics Express, 2015, 23, 11641.	3.4	31
196	Spectroscopic and lasing characteristics of Yb:YGAG ceramic at cryogenic temperatures. Optical Materials Express, 2015, 5, 1289.	3.0	19
197	Recent Advances on the J-KAREN laser upgrade. , 2015, , .		0
198	Time-resolved deformation measurement of Yb:YAG thin disk using wavefront sensor. Proceedings of SPIE, 2015, , .	0.8	1

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199	Joule-Class 940-nm Diode Laser Bars for Millisecond Pulse Applications. IEEE Photonics Technology Letters, 2015, 27, 1663-1666.	2.5	7
200	New possibilities for efficient laser surface treatment by diodeâ€pumped kWâ€class lasers. Journal of Engineering, 2015, 2015, 158-160.	1.1	1
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