Tomas Mocek

List of Publications by Year in descending order

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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	A high-intensity highly coherent soft X-ray femtosecond laser seeded by a high harmonic beam. Nature, 2004, 431, 426-429.	27.8	313
2	The Prague Asterix Laser System. Physics of Plasmas, 2001, 8, 2495-2501.	1.9	259
3	High-speed manufacturing of highly regular femtosecond laser-induced periodic surface structures: physical origin of regularity. Scientific Reports, 2017, 7, 8485.	3.3	251
4	Laser-Driven Proton Acceleration Enhancement by Nanostructured Foils. Physical Review Letters, 2012, 109, 234801.	7.8	178
5	Kilowatt average power 100â€‰â€‰J-level diode pumped solid state laser. Optica, 2017, 4, 438.	9.3	152
6	Multimillijoule, highly coherent x-ray laser at 21 nm operating in deep saturation through double-pass amplification. Physical Review A, 2002, 66, .	2.5	110
7	Ultrashort pulse laser ablation of dielectrics: Thresholds, mechanisms, role of breakdown. Scientific Reports, 2016, 6, 39133.	3.3	110
8	Generation of submicrojoule high harmonics using a long gas jet in a two-color laser field. Applied Physics Letters, 2008, 92, .	3.3	106
9	Demonstration of a Ni-Like Kr Optical-Field-Ionization Collisional Soft X-Ray Laser at 32.8Ânm. Physical Review Letters, 2002, 89, 253901.	7.8	91
10	Verdet Constant of Magneto-Active Materials Developed for High-Power Faraday Devices. Applied Sciences (Switzerland), 2019, 9, 3160.	2.5	77
11	Demonstration of a Collisionally Excited Optical-Field-Ionization XUV Laser Driven in a Plasma Waveguide. Physical Review Letters, 2003, 91, 205001.	7.8	74
12	100â€‰â€‰J-level nanosecond pulsed diode pumped solid state laser. Optics Letters, 2016, 41, 2089.	3.3	73
13	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
14	Spectroscopic characterization of Yb3+-doped laser materials at cryogenic temperatures. Applied Physics B: Lasers and Optics, 2014, 116, 75-81.	2.2	70
15	Full characterization of laser-accelerated ion beams using Faraday cup, silicon carbide, and single-crystal diamond detectors. Journal of Applied Physics, 2011, 109, .	2.5	68
16	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	2.5	65
17	Temperature-wavelength dependence of terbium gallium garnet ceramics Verdet constant. Optical Materials Express, 2016, 6, 3683.	3.0	63
18	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 232-249.	2.9	60

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19	Microchip Yb:CaLnAlO_4 lasers with up to 91% slope efficiency. Optics Letters, 2017, 42, 2431.	3.3	57
20	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
21	Ablation pressure scaling at short laser wavelength. Physical Review E, 2003, 68, 067403.	2.1	53
22	Non-fluorinated superhydrophobic Al7075 aerospace alloy by ps laser processing. Applied Surface Science, 2019, 493, 287-293.	6.1	53
23	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
24	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
25	Modeling of amplified spontaneous emission, heat deposition, and energy extraction in cryogenically cooled multislab Yb^3+:YAG laser amplifier for the HiLASE Project. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1270.	2.1	45
26	Suppression of nonlinear phonon relaxation in Yb:YAG thin disk via zero phonon line pumping. Optics Letters, 2014, 39, 4919.	3.3	44
27	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
28	Laser-driven high-energy proton beam with homogeneous spatial profile from a nanosphere target. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	43
29	Wavelength dependence of magneto-optic properties of terbium gallium garnet ceramics. Optics Express, 2015, 23, 13641.	3.4	42
30	Advances in High-Power, Ultrashort Pulse DPSSL Technologies at HiLASE. Applied Sciences (Switzerland), 2017, 7, 1016.	2.5	42
31	Hugoniot Data for Carbon at Megabar Pressures. Physical Review Letters, 2004, 92, 065503.	7.8	41
32	Hydrophilic to ultrahydrophobic transition of Al 7075 by affordable ns fiber laser and vacuum processing. Applied Surface Science, 2020, 505, 144523.	6.1	41
33	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
34	Metal-like self-organization of periodic nanostructures on silicon and silicon carbide under femtosecond laser pulses. Journal of Applied Physics, 2013, 114, .	2.5	37
35	Characterization of the collisionally pumped optical-field-ionized soft-x-ray laser at41.8nmdriven in capillary tubes. Physical Review A, 2006, 73, .	2.5	36
36	Aberration-free laser beam in the soft x-ray range. Optics Letters, 2009, 34, 2438.	3.3	36

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37	Femtosecond 85â€‰â€‰Î¼m source based on intrapulse difference-frequency generation of 21â€‰â€‰Î¼m pulses. Optics Letters, 2018, 43, 1335.	3.3	36
38	Pulsed laser modification of transparent dielectrics: what can be foreseen and predicted by numerical simulations?. Journal of the Optical Society of America B: Optical Physics, 2014, 31, C8.	2.1	35
39	How to optimize ultrashort pulse laser interaction with glass surfaces in cutting regimes?. Applied Surface Science, 2015, 336, 364-374.	6.1	35
40	Astrophysical radiative shocks: From modeling to laboratory experiments. Laser and Particle Beams, 2006, 24, 535-540.	1.0	34
41	Opacity Measurements of a Hot Iron Plasma Using an X-Ray Laser. Physical Review Letters, 2006, 97, 035001.	7.8	32
42	150 J DPSSL operating at 1.5 kW level. Optics Letters, 2021, 46, 5771.	3.3	32
43	Iodine laser production of highly charged Ta ions. European Physical Journal D, 1996, 46, 1099-1115.	0.4	31
44	Investigation of Zn and Cu prepulse plasmas relevant to collisional excitation x-ray lasers. Physical Review A, 1997, 56, 4229-4241.	2.5	31
45	Absolute Time-Resolved X-Ray Laser Gain Measurement. Physical Review Letters, 2005, 95, 173902.	7.8	31
46	Spatio-temporal modification of femtosecond focal spot under tight focusing condition. Optics Express, 2015, 23, 11641.	3.4	31
47	Microchip laser operation of Yb-doped gallium garnets. Optical Materials Express, 2016, 6, 46.	3.0	31
48	Enhancement of soft x-ray emission from a cryogenically cooled Ar gas jet irradiated by 25 fs laser pulse. Applied Physics Letters, 2000, 76, 1819-1821.	3.3	30
49	Impacts of Ambient and Ablation Plasmas on Short- and Ultrashort-Pulse Laser Processing of Surfaces. Micromachines, 2014, 5, 1344-1372.	2.9	29
50	Periodic surface structures on titanium self-organized upon double femtosecond pulse exposures. Applied Surface Science, 2015, 336, 349-353.	6.1	29
51	Focusing a multimillijoule soft x-ray laser at 21nm. Applied Physics Letters, 2006, 89, 051501.	3.3	28
52	Faraday effect measurements of holmium oxide (Ho₂O₃) ceramics-based magneto-optical materials. High Power Laser Science and Engineering, 2018, 6, .	4.6	28
53	Temperature-wavelength dependence of Verdet constant of Dy₂O₃ ceramics. Optical Materials Express, 2019, 9, 2971.	3.0	28
54	Dramatic enhancement of xuv laser output using a multimode gas-filled capillary waveguide. Physical Review A, 2005, 71, .	2.5	26

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55	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
56	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
57	Collimation of laser-produced plasmas using axial magnetic field. Laser and Particle Beams, 2015, 33, 175-182.	1.0	25
58	Optimization of beam quality and optical-to-optical efficiency of Yb:YAG thin-disk regenerative amplifier by pulsed pumping. Optics Letters, 2014, 39, 1441.	3.3	24
59	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
60	Laser-induced crystallization of anodic TiO₂ nanotube layers. RSC Advances, 2020, 10, 22137-22145.	3.6	23
61	Fourier-limited seeded soft x-ray laser pulse. Optics Letters, 2010, 35, 1326.	3.3	22
62	Extreme ultraviolet emission and confinement of tin plasmas in the presence of a magnetic field. Physics of Plasmas, 2014, 21, 053106.	1.9	22
63	Experimental study of radiative shocks at PALS facility. Laser and Particle Beams, 2010, 28, 253-261.	1.0	21
64	Lasing and thermal characteristics of Yb:YAG/YAG composite with atomic diffusion bonding. Laser Physics Letters, 2017, 14, 015001.	1.4	21
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	Demonstration of a spatial filtering amplifier for high-order harmonics. Optics Letters, 2007, 32, 1498.	3.3	20
67	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
68	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
69	Periodic Grating Structures on Metal Self-organized by Double-pulse Irradiation. Journal of Laser Micro Nanoengineering, 2014, 9, 234-237.	0.1	20
70	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
71	Laser-Ablation Rates Measured Using X-Ray Laser Transmission. Physical Review Letters, 2007, 99, 195002.	7.8	19
72	Spectroscopic and lasing characteristics of Yb:YGAG ceramic at cryogenic temperatures. Optical Materials Express, 2015, 5, 1289.	3.0	19

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73	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
74	Verdet constant of potassium terbium fluoride crystal as a function of wavelength and temperature. Optics Letters, 2020, 45, 1683.	3.3	19
75	Thomson parabola ion spectrograph with the microchannel plate image converter in investigations of highâ€Z laser plasma ion sources. Review of Scientific Instruments, 1996, 67, 1272-1274.	1.3	18
76	Shock pressure induced by 0.44 Î¼m laser radiation on aluminum targets. Laser and Particle Beams, 2003, 21, 481-487.	1.0	18
77	Observation of spectral gain narrowing in a high-order harmonic seeded soft-x-ray amplifier. Physical Review A, 2010, 81, .	2.5	18
78	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
79	Faraday Rotation of Dy2O3, CeF3 and Y3Fe5O12 at the Mid-Infrared Wavelengths. Materials, 2020, 13, 5324.	2.9	18
80	Outline of the ELI-Beamlines facility. Proceedings of SPIE, 2011, , .	0.8	17
81	Picosecond thin-disk laser platform PERLA for multi-beam micromachining. OSA Continuum, 2021, 4, 940.	1.8	17
82	Measurements of the highest acceleration gradient for ions produced with a long laser pulse. Review of Scientific Instruments, 2010, 81, 02A506.	1.3	16
83	Effect of lateral radiative losses on radiative shock propagation. High Energy Density Physics, 2007, 3, 8-11.	1.5	15
84	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
85	Graphene Q-Switched Compact Yb:YAG Laser. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	15
86	Efficient laser performance of a cryogenic Yb:YAG laser pumped by fiber coupled 940 and 969â€‰nm laser diodes. Laser Physics Letters, 2015, 12, 015002.	1.4	15
87	Verdet constant dispersion of CeF₃ in the visible and near-infrared spectral range. Optical Engineering, 2017, 56, 067105.	1.0	15
88	Investigations of collisionally pumped optical field ionization soft-x-ray lasers. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 195.	2.1	14
89	Beam properties of a deeply saturated, half-cavity zinc soft-x-ray laser. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1386.	2.1	14
90	Single-shot soft x-ray laser-induced ablative microstructuring of organic polymer with demagnifying projection. Optics Letters, 2008, 33, 1087.	3.3	14

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91	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
92	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
93	Micromachining of Invar with 784 Beams Using 1.3 ps Laser Source at 515 nm. Materials, 2020, 13, 2962.	2.9	14
94	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
95	Soft-x-ray emission from small-sized Ne clusters heated by intense, femtosecond laser pulses. Physical Review E, 2000, 62, 4461-4464.	2.1	13
96	Spectroscopic characterization of various Yb³⁺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
97	Large-Beam Picosecond Interference Patterning of Metallic Substrates. Materials, 2020, 13, 4676.	2.9	13
98	41.8â˜nmXe8+laser driven in a plasma waveguide. Physical Review A, 2004, 70, .	2.5	12
99	Multi-millijoule, deeply saturated x-ray laser at 21.2 nm for applications in plasma physics. Plasma Physics and Controlled Fusion, 2002, 44, B207-B223.	2.1	11
100	Surface modification of organic polymer by dual action of extreme ultraviolet/visible-near infrared ultrashort pulses. Journal of Applied Physics, 2009, 105, 026105.	2.5	11
101	Filamented plasmas in laser ablation of solids. Plasma Physics and Controlled Fusion, 2009, 51, 035013.	2.1	11
102	Measuring the electron density gradients of dense plasmas by deflectometry using short-wavelength probe. Physics of Plasmas, 2010, 17, 122705.	1.9	11
103	Evolution of laser-produced Sn extreme ultraviolet source diameter for high-brightness source. Applied Physics Letters, 2014, 105, 074103.	3.3	11
104	Periodic nanostructures self-formed on silicon and silicon carbide by femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2014, 117, 49-54.	2.3	11
105	Efficient ASE Management in Disk Laser Amplifiers With Variable Absorbing Clads. IEEE Journal of Quantum Electronics, 2014, 50, 1-9.	1.9	11
106	Comparative LIDT measurements of optical components for high-energy HiLASE lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	11
107	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
108	Study of the stability of beam characteristics of the neon-like Zn X-ray laser using a half cavity. European Physical Journal D, 2003, 22, 31-40.	1.3	10

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109	Characterization of collisionally pumped optical-field-ionization soft X-ray lasers. Applied Physics B: Lasers and Optics, 2004, 78, 939-944.	2.2	10
110	25TW Ti:sapphire laser chain at PALS. Proceedings of SPIE, 2011, , .	0.8	10
111	Design of deformable mirrors for high power lasers. High Power Laser Science and Engineering, 2016, 4, .	4.6	10
112	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
113	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
114	Investigations of laser-induced damages in fused silica optics using x-ray laser interferometric microscopy. Journal of Applied Physics, 2010, 107, .	2.5	9
115	Amplification of picosecond pulses to 100 W by an Yb:YAG thin-disk with CVBG compressor. , 2015, , .		9
116	Crystal growth, low-temperature spectroscopy and multi-watt laser operation of Yb:Ca3NbGa3Si2O14. Journal of Luminescence, 2018, 197, 90-97.	3.1	9
117	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
118	Anti-Reflection Nanostructures on Tempered Glass by Dynamic Beam Shaping. Micromachines, 2021, 12, 289.	2.9	9
119	Fs-laser-written erbium-doped double tungstate waveguide laser. Optics Express, 2018, 26, 30826.	3.4	9
120	X-ray microscopy of living multicellular organisms with the Prague Asterix Iodine Laser System. Laser and Particle Beams, 2003, 21, 511-516.	1.0	8
121	Soft X-ray contact microscopy of nematode Caenorhabditis elegans. European Physical Journal D, 2004, 30, 235-241.	1.3	8
122	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
123	Thermally induced depolarization in terbium gallium garnet ceramics rod with natural convection cooling. Journal of Optics (United Kingdom), 2015, 17, 065610.	2.2	8
124	Femtosecond Yb:YGAG ceramic slab regenerative amplifier. Optical Materials Express, 2018, 8, 615.	3.0	8
125	A high-brightness room temperature 2.7 Âµm Er:Y₂O₃ ceramic laser. Laser Physics Letters, 2019, 16, 035801.	1.4	8
126	Towards Rapid Fabrication of Superhydrophobic Surfaces by Multi-Beam Nanostructuring with 40,401 Beams. Nanomaterials, 2021, 11, 1987.	4.1	8

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127	Characterization of focused beam of desktop 10-Hz capillary-discharge 46.9-nm laser. Proceedings of SPIE, 2009, , .	0.8	8
128	Novel unstable resonator configuration for highly efficient cryogenically cooled Yb:YAG Q-switched laser. Optics Express, 2019, 27, 21622.	3.4	8
129	Laser performances of diode pumped Yb:Lu₂O₃ transparent ceramic at cryogenic temperatures. Optical Materials Express, 2019, 9, 4669.	3.0	8
130	Progress in optical-field-ionization soft X-ray lasers at LOA. Laser and Particle Beams, 2005, 23, .	1.0	7
131	Second generation X-ray lasers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 142-152.	2.3	7
132	Development and applications of multimillijoule softX-ray lasers. Journal of Modern Optics, 2007, 54, 2571-2583.	1.3	7
133	Enhanced surface structuring by ultrafast XUV/NIR dual action. New Journal of Physics, 2011, 13, 053049.	2.9	7
134	New methods for high current fast ion beam production by laser-driven acceleration. Review of Scientific Instruments, 2012, 83, 02B307.	1.3	7
135	HiLASE cryogenically-cooled diode-pumped laser prototype for inertial fusion energy. Proceedings of SPIE, 2013, , .	0.8	7
136	Joule-Class 940-nm Diode Laser Bars for Millisecond Pulse Applications. IEEE Photonics Technology Letters, 2015, 27, 1663-1666.	2.5	7
137	Ultrashort-pulse laser processing of transparent materials: insight from numerical and semi-analytical models. Proceedings of SPIE, 2016, , .	0.8	7
138	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
139	Efficient diode pumped Yb:Y2O3 cryogenic laser. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	7
140	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
141	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
142	<title>Investigation of soft x-ray emission in the water window for microscopy using a double-stream gas puff target irradiated with the Prague Asterix Laser System (PALS)</title>. , 2001, , .		6
143	Nanometric deformations of thin Nb layers under a strong electric field using soft x-ray laser interferometry. Journal of Applied Physics, 2005, 98, 044308.	2.5	6
144	Utilizing ablation of solids to characterize a focused soft X-ray laser beam. , 2007, , .		6

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145	Determination of the Ion Temperature in a Plasma Created by Optical Field Ionization. Contributions To Plasma Physics, 2007, 47, 352-359.	1.1	6
146	Plasma-based X-ray laser at 21Ânm for multidisciplinary applications. European Physical Journal D, 2009, 54, 439-444.	1.3	6
147	Simulation of performance of wavefront correction using deformable mirror in high-average-power laser systems. , 2013, , .		6
148	Short-wavelength ablation of polymers in the high-fluence regime. Physica Scripta, 2014, T161, 014066.	2.5	6
149	Cryogenically-cooled Yb:YGAG ceramic mode-locked laser. Optics Express, 2016, 24, 1402.	3.4	6
150	Efficient diode-pumped Er:KLu(WO_4)_2 laser at âˆ¼161â€‰â€‰Î¼m. Optics Letters, 2018, 43, 218.	3.3	6
151	Diode pumped cryogenic Yb:Lu3Al5O12 laser in continuous-wave and pulsed regime. Optics and Laser Technology, 2021, 135, 106720.	4.6	6
152	Spectroscopy and diode-pumped laser operation of transparent Tm:Lu₃Al₅O₁₂ ceramics produced by solid-state sintering. Optics Express, 2020, 28, 28399.	3.4	6
153	Choquet like sets in function spaces. Bulletin Des Sciences Mathematiques, 2003, 127, 397-437.	1.0	5
154	Homogeneous focusing with a transient soft X-ray laser for irradiation experiments. Optics Communications, 2006, 263, 98-104.	2.1	5
155	Measurements of opacity and temperature of warm dense matter heated by focused soft X-ray laser irradiation. High Energy Density Physics, 2009, 5, 110-113.	1.5	5
156	High-energy, picosecond regenerative thin-disk amplifier at 1 kHz. Proceedings of SPIE, 2012, , .	0.8	5
157	Progress in kW-class picosecond thin-disk lasers development at the HiLASE. Proceedings of SPIE, 2016, , .	0.8	5
158	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
159	Effect of Gd3+/Ga3+ on Yb3+ emission in mixed YAG at cryogenic temperature. Ceramics International, 2019, 45, 9418-9422.	4.8	5
160	Monoclinic zinc monotungstate Yb3+,Li+:ZnWO4: Part II. Polarized spectroscopy and laser operation. Journal of Luminescence, 2021, 231, 117811.	3.1	5
161	High Resolution X-Ray Laser Backlighting of Plasmas Using Spatial Filtering Technique. Springer Proceedings in Physics, 2009, , 417-425.	0.2	5
162	High power picosecond parametric mid-IR source tunable between 17 and 26â€‰â€‰Î¼m. Applied Optics, 2018, 57, 8412.	1.8	5

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163	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
164	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
165	High Pressure Laser-Generated Shocks and Application to EOS of Carbon. Journal of Physics: Conference Series, 2007, 71, 012001.	0.4	4
166	Experimental investigation of fast electron transport in solid density matter: Recent results from a new technique of X-ray energy-encoded 2D imaging. Laser and Particle Beams, 2009, 27, 643-649.	1.0	4
167	Ablative microstructuring with plasma-based XUV lasers and efficient processing of materials by dual action of XUV/NIRâ€“VIS ultrashort pulses. Radiation Effects and Defects in Solids, 2010, 165, 551-558.	1.2	4
168	Precise curvature measurement of Yb:YAG thin disk. , 2015, , .		4
169	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
170	Diode pumped compact cryogenic Yb:YAG/Cr:YAG pulsed laser. Proceedings of SPIE, 2016, , .	0.8	4
171	How new laser development can help laser shock peening penetration to widen industrial applications?. , 2017, , .		4
172	Continuous-wave and passively Q-switched cryogenic Yb:KLu(WO_4)_2 laser. Optics Express, 2017, 25, 25886.	3.4	4
173	Diode-pumped master oscillator power amplifier system based on cryogenically cooled Tm:Y2O3 transparent ceramics. Optical Materials Express, 2021, 11, 1489.	3.0	4
174	<title>Collisional optical-field ionization soft x-ray lasers</title>. , 2001, 4505, 195.		3
175	Bessel spatial profile of a soft x-ray laser beam. Applied Physics Letters, 2010, 97, .	3.3	3
176	High-power, picosecond pulse thin-disk lasers in the Hilase project. Proceedings of SPIE, 2013, , .	0.8	3
177	Laser-induced ion acceleration at ultra-high laser intensities. Radiation Effects and Defects in Solids, 2015, 170, 271-277.	1.2	3
178	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
179	Design of an Optimized Adaptive Optics System With a Photo-Controlled Deformable Mirror. IEEE Photonics Technology Letters, 2016, 28, 1422-1425.	2.5	3
180	A 100J-level nanosecond pulsed DPSSL for pumping high-efficiency, high-repetition rate PW-class lasers. Proceedings of SPIE, 2017, , .	0.8	3

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