

Thomas Graf

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

481
papers

22,357
citations

78
h-index

140
g-index

579
ext. papers

25,267
ext. citations

8.6
avg, IF

6.82
L-index

#	Paper	IF	Citations
481	Nonlinear absorption in lithium triborate frequency converters for high-power ultrafast lasers.. <i>Optics Express</i> , 2022 , 30, 5423-5438	3.3	1
480	Comprehensive theoretical analysis of the period chirp in laser interference lithography.. <i>Applied Optics</i> , 2022 , 61, 2313-2326	1.7	1
479	High-power, high-brightness solid-state laser architectures and their characteristics. <i>Applied Physics B: Lasers and Optics</i> , 2022 , 128, 1	1.9	1
478	High-power quasi-CW diode-pumped 750-nm AlGaAs VECSEL emitting a peak power of 29.6 W and an average power of 8.5 W.. <i>Optics Letters</i> , 2022 , 47, 1980-1983	3	1
477	Process limits for percussion drilling of stainless steel with ultrashort laser pulses at high average powers. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	2
476	Analytical Model for the Depth Progress during Laser Micromachining of V-Shaped Grooves. <i>Micromachines</i> , 2022 , 13, 870	3.3	0
475	Modifikation des einfallenden Laserstrahls 2022 , 215-238		
474	Oberflächenmodifikationen 2022 , 383-414		
473	Der Laserstrahl 2022 , 11-87		
472	Energieeinkopplung 2022 , 127-164		
471	Schweißen 2022 , 297-382		
470	Additive Verfahren 2022 , 415-454		
469	Schneiden 2022 , 247-295		
468	Wärmewirkungen im Werkstück 2022 , 165-214		
467	Abtragende Verfahren 2022 , 455-507		
466	Die Systemtechnik 2022 , 89-123		
465	Abschätzung erzielbarer Prozessergebnisse aus der Leistungsbilanz 2022 , 239-243		

464 Einführung: Strahlwerkzeug Laser **2022**, 1-8

463 Post-processing of additively manufactured metal parts by ultrashort laser pulses for high-quality net shape geometries and advanced functionality. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1135, 012005 0.4 1

462 Influence of the laser cutting front geometry on the striation formation analysed with high-speed synchrotron X-ray imaging. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1135, 012009 0.4 5

461 Ceramic Yb:LuO thin-disk laser oscillator delivering an average power exceeding 1 kW in continuous-wave operation.. *Optics Letters*, **2021**, 46, 6063-6066 3 0

460 Reduced finite-volume model for the fast numerical calculation of the fluid flow in the melt pool in laser beam welding. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1135, 012010 0.4

459 High-power thin-disk lasers emitting beams with axially-symmetric polarizations. *Nanophotonics*, **2021**, 6.3 2

458 High-power ultrafast thin-disk multipass amplifiers for efficient laser-based manufacturing. *Advanced Optical Technologies*, **2021**, 0.9 2

457 The challenges of productive materials processing with ultrafast lasers. *Advanced Optical Technologies*, **2021**, 0.9 1

456 Evidence for additive and synergistic action of mammalian enhancers during cell fate determination. *ELife*, **2021**, 10, 8.9 16

455 Influence of a closed-loop controlled laser metal wire deposition process of S Al 5356 on the quality of manufactured parts before and after subsequent machining. *Production Engineering*, **2021**, 15, 489-507 1.9 5

454 Analytical Description of the Criterion for the Columnar-To-Equiaxed Transition During Laser Beam Welding of Aluminum Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 2720 2.3 1

453 Process monitoring based on plasma emission for power-modulated glass welding with bursts of subpicosecond laser pulses. *Applied Optics*, **2021**, 60, 3526-3534 1.7 0

452 Analytical model for the depth progress of percussion drilling with ultrashort laser pulses. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1 2.6 8

451 Synchrotron X-ray Analysis of the Influence of the Magnesium Content on the Absorptance during Full-Penetration Laser Welding of Aluminum. *Metals*, **2021**, 11, 797 2.3 2

450 Image processing based detection of the fibre orientation during depth-controlled laser ablation of CFRP monitored by optical coherence tomography. *Materials and Design*, **2021**, 203, 109567 8.1 4

449 Efficient and high-throughput ablation of platinum using high-repetition rate radially and azimuthally polarized sub-picosecond laser pulses. *Optics Express*, **2021**, 29, 19551-19565 3.3 1

448 Dynamics of alternative splicing during somatic cell reprogramming reveals functions for RNA-binding proteins CPSF3, hnRNP UL1, and TIA1. *Genome Biology*, **2021**, 22, 171 18.3 0

447 Azimuthally polarized picosecond vector beam with 1.7 kW of average output power. *Optics Letters*, **2021**, 46, 3492-3495 3 4

446	Geometry and stability of the capillary during deep-penetration laser welding of AlMgSi at high feed rates. <i>Optics and Laser Technology</i> , 2021 , 133, 106562	4.2	8
445	Atomistic simulation of ultra-short pulsed laser ablation of metals with single and double pulses: An investigation of the re-deposition phenomenon. <i>Applied Surface Science</i> , 2021 , 537, 147775	6.7	12
444	Scan path strategy for laser processing of fragmented geometries. <i>Optics and Lasers in Engineering</i> , 2021 , 138, 106412	4.6	1
443	Increasing the efficiency of the intra-cavity generation of ultra-short radially polarized pulses in thin-disk resonators with grating waveguide structures. <i>OSA Continuum</i> , 2021 , 4, 262	1.4	1
442	Measuring the μ particle charge radius with muonic helium-4 ions. <i>Nature</i> , 2021 , 589, 527-531	50.4	16
441	SESAM mode-locked Yb:YAB thin-disk oscillator delivering an average power of 19 W. <i>Optics Letters</i> , 2021 , 46, 912-915	3	1
440	High-quality percussion drilling with ultrashort laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1
439	Analysis and optimization of the piercing process in laser beam cutting by means of high-speed X-ray imaging. <i>Journal of Manufacturing Processes</i> , 2021 , 69, 303-310	5	0
438	Process Window for Highly Efficient Laser-Based Powder Bed Fusion of AlSi10Mg with Reduced Pore Formation. <i>Materials</i> , 2021 , 14,	3.5	3
437	Investigations on the Process Stability of Dry Deep Drawing with Volatile Lubricants Injected Through Laser-Drilled Microholes. <i>Minerals, Metals and Materials Series</i> , 2021 , 230-246	0.3	0
436	A Universal Machine: Enabling Digital Manufacturing with Laser Technology. <i>Arena2036</i> , 2021 , 386-393	0.3	1
435	Closed-loop controlled compensation of thermal lensing in high-power thin-disk lasers using spherically deformable mirrors. <i>Laser Physics Letters</i> , 2021 , 18, 025002	1.5	
434	High-quality high-throughput silicon laser milling using a 1 kW sub-picosecond laser. <i>Optics Letters</i> , 2021 , 46, 384-387	3	11
433	Numerical analysis of the effect of residual stresses in formed aluminum sheet metal parts on the hot crack formation during laser beam welding. <i>Procedia CIRP</i> , 2020 , 94, 708-712	1.8	0
432	Benefit of high feed rates on the process efficiency in laser beam welding. <i>Procedia CIRP</i> , 2020 , 94, 718-728	1.2	1
431	Transition from Stable Laser Fusion Cutting Conditions to Incomplete Cutting Analysed with High-speed X-ray Imaging. <i>Journal of Manufacturing Processes</i> , 2020 , 60, 470-480	5	5
430	Numerical analysis and semi-analytical prediction of the depth of holes drilled with combined ms and ns laser pulses. <i>Journal of Applied Physics</i> , 2020 , 127, 213101	2.5	2
429	Influence of the duration of elevated temperatures caused by laser micro welding on the thermal damage in printed circuit boards. <i>Journal of Laser Applications</i> , 2020 , 32, 022074	2.1	2

428	Modelling of natural convection in thin-disk lasers. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	6
427	Position sensing of ultrashort pulsed laser-welded seams in glass by optical coherence tomography. <i>Journal of Laser Applications</i> , 2020 , 32, 022003	2.1	5
426	Resonant Waveguide Gratings Versatile Devices for Laser Engineering. <i>PhotonicsViews</i> , 2020 , 17, 50-55	0.4	0
425	Thrust enhancement and propellant conservation for laser propulsion using ultra-short double pulses. <i>Applied Surface Science</i> , 2020 , 510, 145391	6.7	10
424	Investigation of laser damage of grating waveguide structures submitted to sub-picosecond pulses. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	4
423	Local Vaporization at the Cut Front at High Laser Cutting Speeds. <i>Lasers in Manufacturing and Materials Processing</i> , 2020 , 7, 190-206	2.1	8
422	Dry Metal Forming Using Volatile Lubricants Injected into the Forming Tool Through Flow-Optimized, Laser-Drilled Microholes. <i>Jom</i> , 2020 , 72, 2517-2524	2.1	4
421	Process regimes during welding of glass by femtosecond laser pulse bursts. <i>Applied Optics</i> , 2020 , 59, 6452-6458	1.7	3
420	Reproducible process regimes during glass welding by bursts of subpicosecond laser pulses. <i>Applied Optics</i> , 2020 , 59, 11382-11388	1.7	4
419	Ultrafast green thin-disk laser exceeding 1.4 kW of average power. <i>Optics Letters</i> , 2020 , 45, 5522-5525	3	11
418	High-quality net shape geometries from additively manufactured parts using closed-loop controlled ablation with ultrashort laser pulses. <i>Advanced Optical Technologies</i> , 2020 , 9, 101-110	0.9	5
417	Analysis of material concentration in step-index fibers with alumina cores produced by means of the powder-in-tube technique. <i>Optics Express</i> , 2020 , 28, 28283-28294	3.3	
416	Advances in Dry Metal Forming Using Volatile Lubricants Injected Through Laser-Drilled Microholes. <i>Minerals, Metals and Materials Series</i> , 2020 , 1979-1991	0.3	3
415	Transcriptional activation during cell reprogramming correlates with the formation of 3D open chromatin hubs. <i>Nature Communications</i> , 2020 , 11, 2564	17.4	18
414	Ti:sapphire thin-disk laser symmetrically cooled by curved single crystal diamond heat spreaders. <i>Laser Physics Letters</i> , 2020 , 17, 015802	1.5	0
413	Direct amplification of sub-300 fs pulses in a versatile thin-disk multipass amplifier. <i>Optics Communications</i> , 2020 , 460, 125159	2	4
412	Direct laser interference patterning of stainless steel by ultrashort pulses for antibacterial surfaces. <i>Optics and Laser Technology</i> , 2020 , 123, 105954	4.2	30
411	Towards adaptive high-power lasers: Model-based control and disturbance compensation using moving horizon estimators. <i>Mechatronics</i> , 2020 , 71, 102441	3	4

410	High-Speed X-Ray Investigation of Pore Formation during Full Penetration Laser Beam Welding of AA6016 Aluminum Sheets Contaminated with Lubricants. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2077	2.6	4
409	Automated free-space beam delivery system for ultrafast laser beams in the kW regime. <i>Procedia CIRP</i> , 2020 , 94, 951-956	1.8	
408	Influence of the process parameters on the absorptance during Laser-Based Powder Bed Fusion of AlSi10Mg. <i>Procedia CIRP</i> , 2020 , 94, 173-176	1.8	3
407	The influence of residual stresses on laser beam welding processes of aluminium sheets. <i>Procedia CIRP</i> , 2020 , 94, 713-717	1.8	2
406	Geometry and absorptance of the cutting fronts during laser beam cutting. <i>Journal of Laser Applications</i> , 2020 , 32, 032015	2.1	11
405	Amplification of radially polarized ultra-short pulsed radiation to average output powers exceeding 250 W in a compact single-stage Yb:YAG single-crystal fiber amplifier. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	7
404	Influence of the solidification path of AlMgSi aluminium alloys on the critical strain rate during remote laser beam welding. <i>Science and Technology of Welding and Joining</i> , 2020 , 25, 101-105	3.7	2
403	Preserving Nearly Diffraction-Limited Beam Quality Over Several Hundred Meters of Transmission Through Highly Multimode Fibers. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4260-4267	4	6
402	Expected X-ray dose rates resulting from industrial ultrafast laser applications. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	8
401	Analytical Description of the Influence of the Welding Parameters on the Hot Cracking Susceptibility of Laser Beam Welds in Aluminum Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5174-5180	2.3	7
400	Lubricant-free deep drawing using CO ₂ and N ₂ as volatile media injected through laser-drilled microholes. <i>Manufacturing Review</i> , 2019 , 6, 11	1.4	4
399	High-speed x-ray imaging system for the investigation of laser welding processes. <i>Journal of Laser Applications</i> , 2019 , 31, 042004	2.1	6
398	Single-pass laser separation of 8 mm thick glass with a millijoule picosecond pulsed GaussianBessel beam. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	11
397	Transcription Factor Stoichiometry Drives Cell Fate: Single-Cell Proteomics to the Rescue. <i>Cell Stem Cell</i> , 2019 , 24, 673-674	18	5
396	Statistical evaluation method to determine the laser welding depth by optical coherence tomography. <i>Optics and Lasers in Engineering</i> , 2019 , 119, 56-64	4.6	14
395	Explicit analytical expressions for the influence of welding parameters on the grain structure of laser beam welds in aluminium alloys. <i>Materials and Design</i> , 2019 , 174, 107791	8.1	13
394	Phase Shift Induced Degradation of Polarization Caused by Bends in Inhibited-Coupling Guiding Hollow-Core Fibers. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1362-1365	2.2	3
393	Thin-Disk Multipass Amplifier Delivering Radially Polarized Ultrafast Pulses with an Average Output Power of 1 kW 2019 ,		1

392	Entwurf deformierbarer Spiegel für den Einsatz in Hochleistungslasern. <i>TM Technisches Messen</i> , 2019 , 86, 121-130	0.7	2
391	Flexible Sub-1 ps Ultrafast Laser Exceeding 1 kW of Output Power for High-Throughput Surface Structuring 2019 ,		3
390	Ultrafast thin-disk multipass laser amplifier scheme avoiding misalignment induced by natural convection of the ambient air. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	
389	Scaling the productivity of laser structuring processes using picosecond laser pulses at average powers of up to 420 W to produce superhydrophobic surfaces on stainless steel AISI 316L. <i>Scientific Reports</i> , 2019 , 9, 1933	4.9	16
388	On compensating thermal lensing in high-power lasers using intra-cavity deformable mirrors. <i>IFAC-PapersOnLine</i> , 2019 , 52, 1-6	0.7	1
387	Numerical study of the dynamics of the hole formation during drilling with combined ms and ns laser pulses. <i>Optics and Laser Technology</i> , 2019 , 112, 8-19	4.2	15
386	Influence of the Real Geometry of the Laser Cut Front on the Absorbed Intensity and the Gas Flow. <i>Lasers in Manufacturing and Materials Processing</i> , 2019 , 6, 1-13	2.1	4
385	Reduction of the hot cracking susceptibility of laser beam welds in AlMgSi alloys by increasing the number of grain boundaries. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 313-319	3.7	14
384	Shielding effects and re-deposition of material during processing of metals with bursts of ultra-short laser pulses. <i>Applied Surface Science</i> , 2018 , 440, 926-931	6.7	50
383	Hoxb5, a Trojan horse to generate T cells. <i>Nature Immunology</i> , 2018 , 19, 210-212	19.1	3
382	Residual heat generated during laser processing of CFRP with picosecond laser pulses. <i>Advanced Optical Technologies</i> , 2018 , 7, 157-163	0.9	4
381	OneD: increasing reproducibility of Hi-C samples with abnormal karyotypes. <i>Nucleic Acids Research</i> , 2018 , 46, e49	20.1	34
380	On the double peak structure of avalanche photodiode response to monoenergetic x-rays at various temperatures and bias voltages. <i>Journal of Instrumentation</i> , 2018 , 13, C01033-C01033	1	1
379	Fundamental investigations on the spiking mechanism by means of laser beam welding of ice. <i>Journal of Laser Applications</i> , 2018 , 30, 012009	2.1	6
378	Heat accumulation between scans during multi-pass cutting of carbon fiber reinforced plastics. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	3
377	Transcription factors orchestrate dynamic interplay between genome topology and gene regulation during cell reprogramming. <i>Nature Genetics</i> , 2018 , 50, 238-249	36.3	183
376	Estimation of the depth limit for percussion drilling with picosecond laser pulses. <i>Optics Express</i> , 2018 , 26, 11546-11552	3.3	18
375	Radially polarized passively mode-locked thin-disk laser oscillator emitting sub-picosecond pulses with an average output power exceeding the 100 W level. <i>Optics Express</i> , 2018 , 26, 4401-4410	3.3	6

374	Thin-disk oscillator delivering radially polarized beams with up to 980 W of CW output power. <i>Optics Letters</i> , 2018 , 43, 1371-1374	3	6
373	Modellierung optisch adressierter Spiegel für adaptive Hochleistungslaser. <i>Automatisierungstechnik</i> , 2018 , 66, 506-520	0.8	1
372	The ultrafast laser is gearing up to become a tool for high-precision mass production – opportunities and challenges. <i>Advanced Optical Technologies</i> , 2018 , 7, 127-128	0.9	
371	Modeling and simulating the thermoelastic deformation of mirrors using transient multilayer models. <i>Mechatronics</i> , 2018 , 53, 168-180	3	7
370	Exploiting nonlinear spectral broadening in a 400 W Yb:YAG thin-disk multipass amplifier to achieve 2 mJ pulses with sub-150 fs duration. <i>Optics Communications</i> , 2018 , 429, 180-188	2	8
369	Trimming method for a high-yield manufacturing of high-efficiency diffraction gratings. <i>Optics Letters</i> , 2018 , 43, 4017-4020	3	1
368	Influence of pulse repetition rate and pulse energy on the heat accumulation between subsequent laser pulses during laser processing of CFRP with ps pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	6
367	Model of the final borehole geometry for helical laser drilling. <i>Advanced Optical Technologies</i> , 2018 , 7, 183-188	0.9	1
366	Pores in laser beam welding: generation mechanism and impact on the melt flow 2018 ,		2
365	Determination of the thermally induced focal shift of processing optics for ultrafast lasers with average powers of up to 525 W. <i>Optics Express</i> , 2018 , 26, 26020-26029	3.3	9
364	Observation of Laser Materials Processing by Means of High-Speed Imaging 2018 , 207-225		
363	Strain signatures associated to the formation of hot cracks during laser beam welding of aluminum alloys. <i>Optics and Lasers in Engineering</i> , 2018 , 100, 131-140	4.6	18
362	Lubricant-free deep drawing using CO ₂ and N ₂ as volatile media injected through laser-drilled microholes. <i>MATEC Web of Conferences</i> , 2018 , 190, 14007	0.3	1
361	The next generation of laser spectroscopy experiments using light muonic atoms. <i>Journal of Physics: Conference Series</i> , 2018 , 1138, 012010	0.3	11
360	In-process determination of fiber orientation for layer accurate laser ablation of CFRP. <i>Procedia CIRP</i> , 2018 , 74, 557-561	1.8	5
359	Heat accumulation controlled surface functionalization of stainless steel with structuring rates up to 500 mm ² /s. <i>Procedia CIRP</i> , 2018 , 74, 324-327	1.8	4
358	Modulation of the local grain structure in laser beam welds to inhibit the propagation of centerline hot cracks. <i>Procedia CIRP</i> , 2018 , 74, 434-437	1.8	4
357	Self-restraint hot cracking test for aluminum alloys using digital image correlation. <i>Procedia CIRP</i> , 2018 , 74, 430-433	1.8	5

356	Optimization of the solidification conditions by means of beam oscillation during laser beam welding of aluminum. <i>Materials and Design</i> , 2018 , 160, 1178-1185	8.1	44
355	Weld Seam Geometry and Electrical Resistance of Laser-Welded, Aluminum-Copper Dissimilar Joints Produced with Spatial Beam Oscillation. <i>Metals</i> , 2018 , 8, 510	2.3	14
354	Prediction of the surface structures resulting from heat accumulation during processing with picosecond laser pulses at the average power of 420 W. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	16
353	Transcription Factors Drive Tet2-Mediated Enhancer Demethylation to Reprogram Cell Fate. <i>Cell Stem Cell</i> , 2018 , 23, 727-741.e9	18	78
352	Benefits of very high feed rates for laser beam welding of AlMgSi aluminum alloys. <i>Journal of Laser Applications</i> , 2018 , 30, 012015	2.1	8
351	Reduction of pores by means of laser beam oscillation during remote welding of AlMgSi. <i>Optics and Lasers in Engineering</i> , 2018 , 108, 68-77	4.6	54
350	Flow speed of the ablation vapors generated during laser drilling of CFRP with a continuous-wave laser beam. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	4
349	Comprehensive analysis of the capillary depth in deep penetration laser welding 2017 ,		3
348	The optically pumped semiconductor membrane external-cavity surface-emitting laser (MECSEL): a concept based on a diamond-sandwiched active region 2017 ,		1
347	High-power single-stage single-crystal Yb:YAG fiber amplifier for radially polarized ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	8
346	Thin-disk multipass amplifier for fs pulses delivering 400 W of average and 2.0 GW of peak power for linear polarization as well as 235 W and 1.2 GW for radial polarization. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	21
345	Fast numerical method to predict the depth of laser welding. <i>Journal of Laser Applications</i> , 2017 , 29, 022012	2.1	4
344	Influence of the focal position on the melt flow during laser welding of steel. <i>Journal of Laser Applications</i> , 2017 , 29, 012010	2.1	21
343	Advantages of laser beam oscillation for remote welding of aluminum closely above the deep-penetration welding threshold. <i>Journal of Laser Applications</i> , 2017 , 29, 012001	2.1	15
342	Analytical model for the extent of the heat-affected zone occurring during overlap laser welding of dissimilar materials. <i>Journal of Applied Physics</i> , 2017 , 122, 135104	2.5	1
341	Thin-disk laser operation of Ti:sapphire. <i>Optics Letters</i> , 2017 , 42, 1624-1627	3	8
340	Characterization of the melt flow direction and cut front geometry in oxygen cutting with a solid state laser. <i>Journal of Laser Applications</i> , 2017 , 29, 022202	2.1	7
339	Analysis of Fundamental-Mode Beam Transport in Highly Multimode Fibers. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3637-3642	4	2

338	Analytical description of the surface temperature for the characterization of laser welding processes. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 958-969	4.9	9
337	Parallel sequencing lives, or what makes large sequencing projects successful. <i>GigaScience</i> , 2017 , 6, 1-6	7.6	4
336	Modulation of the laser power to prevent hot cracking during laser welding of tempered steel. <i>Journal of Laser Applications</i> , 2017 , 29, 042008	2.1	12
335	Processing constraints resulting from heat accumulation during pulsed and repetitive laser materials processing. <i>Optics Express</i> , 2017 , 25, 3966-3979	3.3	40
334	Deformable mirrors for intra-cavity use in high-power thin-disk lasers. <i>Optics Express</i> , 2017 , 25, 4254-4263	3.3	21
333	Highly-efficient continuous-wave intra-cavity frequency-doubled Yb:LuAG thin-disk laser with 1 kW of output power. <i>Optics Express</i> , 2017 , 25, 4917-4925	3.3	13
332	Fiber-integrated spectroscopy device for hot alkali vapor. <i>Applied Optics</i> , 2017 , 56, 5898-5902	1.7	6
331	Passive compensation of the misalignment instability caused by air convection in thin-disk lasers. <i>Optics Letters</i> , 2017 , 42, 3263-3266	3	11
330	The effect of laser welding parameters on the grain structure distribution in the resultant weld 2016 ,		2
329	SESAM-modelocked Yb:CaF ₂ thin-disk-laser generating 285 fs pulses with 1.78 J of pulse energy. <i>Laser Physics Letters</i> , 2016 , 13, 055801	1.5	11
328	Efficiency and power scaling of in-well and multi-pass pumped AlGaInP VECSELs 2016 ,		2
327	2.5 W continuous wave output at 665 nm from a multipass and quantum-well-pumped AlGaInP vertical-external-cavity surface-emitting laser. <i>Optics Letters</i> , 2016 , 41, 1245-8	3	16
326	Comprehensive process monitoring for laser welding process optimization 2016 ,		2
325	C/EBP β creates elite cells for iPSC reprogramming by upregulating Klf4 and increasing the levels of Lsd1 and Brd4. <i>Nature Cell Biology</i> , 2016 , 18, 371-81	23.4	64
324	Gain chip design, power scaling and intra-cavity frequency doubling with LBO of optically pumped red-emitting AlGaInP-VECSELs 2016 ,		2
323	Cell-of-Origin-Specific 3D Genome Structure Acquired during Somatic Cell Reprogramming. <i>Cell Stem Cell</i> , 2016 , 18, 597-610	18	151
322	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBP β <i>Leukemia</i> , 2016 , 30, 674-82	10.7	29
321	Very Rapid and Efficient Generation of Induced Pluripotent Stem Cells from Mouse Pre-B Cells. <i>Methods in Molecular Biology</i> , 2016 , 1357, 45-56	1.4	3

320	Second Generation Thin-Disk Multipass Amplifier Delivering Picosecond Pulses with 2 kW of Average Output Power 2016 ,			9
319	Experiments towards resolving the proton charge radius puzzle. <i>EPJ Web of Conferences</i> , 2016 , 113, 01006			19
318	Semiconductor membrane external-cavity surface-emitting laser (MECSEL). <i>Optica</i> , 2016 , 3, 1506	8.6		31
317	Numerical modeling of multimode laser resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 2278	1.7		5
316	Highly efficient 400 W near-fundamental-mode green thin-disk laser. <i>Optics Letters</i> , 2016 , 41, 171-4	3		11
315	Novel thin-disk oscillator concept for the generation of radially polarized femtosecond laser pulses. <i>Optics Letters</i> , 2016 , 41, 1680-3	3		14
314	A 1.78 μ s and 285fs Yb:CaF ₂ SESAM-modelocked thin-disk oscillator 2016 ,			1
313	Temperature Controlled Laser Joining of Aluminum to Galvanized Steel. <i>Physics Procedia</i> , 2016 , 83, 515-522			4
312	Fine-tuned Remote Laser Welding of Aluminum to Copper with Local Beam Oscillation. <i>Physics Procedia</i> , 2016 , 83, 455-462			22
311	Laser spectroscopy of muonic deuterium. <i>Science</i> , 2016 , 353, 669-73	33.3		171
310	Calibrated heat flow model for the determination of different heat-affected zones in single-pass laser-cut CFRP using a cw CO ₂ laser. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 1509-1516	2.6		5
309	Thin-disk laser multi-pass amplifier 2015 ,			4
308	Ultrafast thin-disk multipass amplifier with 1.4 kW average power and 4.7 mJ pulse energy at 1030 nm converted to 820 W and 2.7 mJ at 515 nm 2015 ,			1
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4	Friction and Wear Behavior of Deep Drawing Tools Using Volatile Lubricants Injected Through Laser-Drilled Micro-Holes. <i>Jom</i> , 1	2.1	1
3	Parallel sequencing lives, or what makes large sequencing projects successful		2
2	Dynamics of alternative splicing during somatic cell reprogramming reveals functions for RNA-binding proteins CPSF3, hnRNP UL1 and TIA1		1
1	OneD: increasing reproducibility of Hi-C Samples with abnormal karyotypes		2