

Andreas Ostendorf

List of Publications by Year in descending order

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307
papers

4,659
citations

147726

31
h-index

118793

62
g-index

315
all docs

315
docs citations

315
times ranked

4520
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical simulation and experimental verification of dynamic caustic manipulation using a deformable mirror for laser material processing. Optics and Laser Technology, 2022, 149, 107814.	2.2	1
2	Impact of cobalt content and grain growth inhibitors in laser-based powder bed fusion of WC-Co. International Journal of Refractory Metals and Hard Materials, 2022, 105, 105814.	1.7	19
3	Multiresonator Imaging Sensor for the Aerial Parameters Detection. IEEE Journal on Miniaturization for Air and Space Systems, 2021, 2, 84-91.	1.9	5
4	Laser metal deposition of refractory high-entropy alloys for high-throughput synthesis and structure-property characterization. International Journal of Extreme Manufacturing, 2021, 3, 015201.	6.3	27
5	The Effect of Laser Nitriding on Surface Characteristics and Wear Resistance of NiTi Alloy with Low Power Fiber Laser. Applied Sciences (Switzerland), 2021, 11, 515.	1.3	5
6	Direct generation of 3D structures by laser polymer deposition. Journal of Laser Applications, 2021, 33, .	0.8	4
7	Self-learning-based detection via multiple microresonator imaging. , 2021, , .		0
8	Intelligent imaging sensor out of two-photon polymerized microcavities with self-sensing boosting. , 2021, , .		0
9	Life cycle strengthening of high-strength steels by nanosecond laser shock. Applied Surface Science, 2021, 569, 151118.	3.1	16
10	Intelligent Optical Microresonator Imaging Sensor for Early Stage Classification of Dynamical Variations. Advanced Photonics Research, 2021, 2, 2100242.	1.7	3
11	Additive manufacturing of <sc>PA12</sc> carbon nanotube composites with a novel laser polymer deposition process. Journal of Applied Polymer Science, 2021, 138, 50395.	1.3	12
12	Optimization of processing parameters of ultrashort (100â€‰%fsâ€‰“2â€‰%ps) pulsed laser shock peening of stainless steel. Journal of Laser Applications, 2021, 33, .	0.8	1
13	Intelligent Optical Microresonator Imaging Sensor for Early Stage Classification of Dynamical Variations. Advanced Photonics Research, 2021, 2, .	1.7	1
14	Corrosion behavior of NiTi alloy subjected to femtosecond laser shock peening without protective coating in air environment. Applied Surface Science, 2020, 501, 144338.	3.1	45
15	Application of dispersed microresonator based sensor for aerospace-related tasks. , 2020, , .		1
16	Femtosecond laser shock peening on the surface of NiTi shape memory alloy. Procedia CIRP, 2020, 94, 910-913.	1.0	3
17	A new metalorganic chemical vapor deposition process for MoS₂ with a 1,4-diazabutadienyl stabilized molybdenum precursor and elemental sulfur. Dalton Transactions, 2020, 49, 13462-13474.	1.6	12
18	Structural colors with angle-insensitive optical properties generated by Morpho-inspired 2PP structures. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	11

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19	Geometrical-optics analysis of whispering-gallery modes in the layer of a coated spherical resonator. Physical Review A, 2020, 102, .	1.0	1
20	Directed Energy Deposition of PA12 carbon nanotube composite powder using a fiber laser. Procedia CIRP, 2020, 94, 128-133.	1.0	5
21	Concept development for the generation of support structures in the laser metal deposition process. Procedia CIRP, 2020, 94, 288-292.	1.0	0
22	Surface modification of NiTi alloy by ultrashort pulsed laser shock peening. Surface and Coatings Technology, 2020, 394, 125899.	2.2	31
23	Studies on ultra-short pulsed laser shock peening of stainless-steel in different confinement media. Surface and Coatings Technology, 2020, 397, 125988.	2.2	20
24	A Laser Written 4D Optical Microcavity for Advanced Biochemical Sensing in Aqueous Environment. Journal of Lightwave Technology, 2020, 38, 2530-2538.	2.7	11
25	Microhardness and microabrasion behaviour of NiTi shape memory alloy after femtosecond laser shock peening without coating in air. , 2020, , .		1
26	Two-photon polymerization with diode lasers emitting ultrashort pulses with high repetition rate. Optics Letters, 2020, 45, 4827.	1.7	6
27	Deep-learning powered whispering gallery mode sensor based on multiplexed imaging at fixed frequency. Opto-Electronic Advances, 2020, 3, 200048-200048.	6.4	21
28	Mode-locked diode laser-based two-photon polymerisation. Electronics Letters, 2020, 56, 91-93.	0.5	3
29	Design and application of distributed microresonator-based systems for biochemical sensing. , 2020, , .		1
30	Mode-locked diode lasers as sources for two-photon polymerization. , 2020, , .		0
31	Laser shock peening on high-strength steel. , 2020, , .		0
32	Benchmarking and validation of a combined CFD-optics solver for micro-scale problems. OSA Continuum, 2020, 3, 3070.	1.8	1
33	Review on experimental and theoretical investigations of the early stage, femtoseconds to microseconds processes during laser ablation in liquid-phase for the synthesis of colloidal nanoparticles. Plasma Sources Science and Technology, 2019, 28, 103001.	1.3	128
34	Structural Reproducibility Enhancement of Optical Resonance Arrays Produced by Two-Photon Polymerization. , 2019, , .		0
35	Femtosecond laser patterning of graphene electrodes for thin-film transistors. Applied Surface Science, 2019, 478, 299-303.	3.1	14
36	Reusable Dispersed Resonators-Based Biochemical Sensor for Parallel Probing. IEEE Sensors Journal, 2019, 19, 7644-7651.	2.4	11

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37	Digital holographic microscopy for sub- μm scale high aspect ratio structures in transparent materials. <i>Optics and Lasers in Engineering</i> , 2019, 121, 441-447.	2.0	7
38	Selective Delamination upon Femtosecond Laser Ablation of Ceramic Surfaces. <i>Physical Review Applied</i> , 2019, 11, .	1.5	9
39	Effects of femtosecond laser shock peening in distilled water on the surface characterizations of NiTi shape memory alloy. <i>Applied Surface Science</i> , 2019, 471, 869-877.	3.1	33
40	Pump-probe microscopy of femtosecond laser ablation in air and liquids. <i>Applied Surface Science</i> , 2019, 475, 204-210.	3.1	16
41	Time and Mechanism of Nanoparticle Functionalization by Macromolecular Ligands during Pulsed Laser Ablation in Liquids. <i>Langmuir</i> , 2019, 35, 3038-3047.	1.6	44
42	Application of high powered Laser Technology to alter hard rock properties towards lower strength materials for more efficient drilling, mining, and Geothermal Energy production. <i>Geomechanics for Energy and the Environment</i> , 2019, 20, 100112.	1.2	38
43	Laser metal deposition of compositionally graded TiZrNbTa refractory high-entropy alloys using elemental powder blends. <i>Additive Manufacturing</i> , 2019, 25, 252-262.	1.7	62
44	Biomimetic structural coloration with tunable degree of angle-independence generated by two-photon polymerization. <i>Optical Materials Express</i> , 2019, 9, 2630.	1.6	20
45	Two-photon polymerization in optical biochemical sensing. , 2019, , .		0
46	Selective Delamination of Thin Films from Ceramic Surfaces upon Femtosecond Laser Ablation. , 2019, , .		0
47	Near real-time digital holographic imaging on conventional central processing unit. , 2019, , .		0
48	Modelling of direct laser writing in multilayer absorbing medium. , 2019, , .		0
49	Monitoring of photochemically induced changes in phase-modulating samples with digital holographic microscopy. <i>Applied Optics</i> , 2019, 58, G41.	0.9	3
50	Simultaneous nanopatterning and reduction of graphene oxide by femtosecond laser pulses. <i>Applied Surface Science</i> , 2018, 445, 197-203.	3.1	49
51	On femtosecond laser shock peening of stainless steel AISI 316. <i>Applied Surface Science</i> , 2018, 435, 1120-1124.	3.1	50
52	Time-resolved measurement of elemental carbon in urban environment: Comparison of Raman backscattering and aethalometer results. <i>Journal of Aerosol Science</i> , 2018, 117, 34-43.	1.8	5
53	Tailored η^2 -Ketoiminato Complexes of Iron: Synthesis, Characterization, and Evaluation towards Solution-Based Deposition of Iron Oxide Thin Films. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1824-1833.	1.0	7
54	Laser metal deposition of lattice structures by columnar built-up. <i>Procedia CIRP</i> , 2018, 74, 218-221.	1.0	6

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55	Laser metal deposition of a refractory TiZrNbHfTa high-entropy alloy. Additive Manufacturing, 2018, 24, 386-390.	1.7	47
56	Temporal temperature evolution in laser micro-spot welding of copper considering temperature-dependent material parameters. Materials Research Express, 2018, 5, 066545.	0.8	7
57	Investigation of multiple laser shock peening on the mechanical property and corrosion resistance of shipbuilding 5083Al alloy under a simulated seawater environment. Applied Optics, 2018, 57, 6300.	0.9	21
58	Investigation of albumin-derived perfluorocarbon-based capsules by holographic optical trapping. Biomedical Optics Express, 2018, 9, 743.	1.5	4
59	Effect of a thin reflective film between substrate and photoresin on two-photon polymerization. Additive Manufacturing, 2018, 24, 658-666.	1.7	11
60	Femtosecond laser crystallization of amorphous titanium oxide thin films. Applied Physics Letters, 2018, 113, .	1.5	15
61	Evaluation and benchmarking of an EC-QCL-based mid-infrared spectrometer for monitoring metabolic blood parameters in critical care units. , 2018, , .		3
62	Printing structural colors via direct laser writing. , 2018, , .		1
63	Mapping of the detecting units of the resonator-based multiplexed sensor. , 2018, , .		8
64	Investigation of multiple laser shock peening on the mechanical property and corrosion resistance of shipbuilding 5083Al alloy under a simulated seawater environment: publisher's note. Applied Optics, 2018, 57, 7352.	0.9	1
65	Wavelength dependence of picosecond laser-induced periodic surface structures on copper. Applied Surface Science, 2017, 417, 88-92.	3.1	29
66	Development and characterization of a microsnap-fit for optical assembly. Proceedings of SPIE, 2017, , .	0.8	1
67	Synthesis and evaluation of new copper ketoiminate precursors for a facile and additive-free solution-based approach to nanoscale copper oxide thin films. Dalton Transactions, 2017, 46, 2670-2679.	1.6	17
68	Photoactive Zinc Ferrites Fabricated via Conventional CVD Approach. ACS Sustainable Chemistry and Engineering, 2017, 5, 2917-2926.	3.2	41
69	Influence of solvent mixture on the ablation rate of iron using femtosecond laser pulses. , 2017, , .		0
70	Synthesis of Magnetic Nanoparticles by Ultrashort Pulsed Laser Ablation of Iron in Different Liquids. ChemPhysChem, 2017, 18, 1155-1164.	1.0	55
71	Optical screw-wrench for microassembly. Microsystems and Nanoengineering, 2017, 3, 16083.	3.4	26
72	Nanostructured Fe ₂ O ₃ Processing via Water-Assisted ALD and Low-Temperature CVD from a Versatile Iron Ketoiminate Precursor. Advanced Materials Interfaces, 2017, 4, 1700155.	1.9	28

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73	Development of electrically conductive microstructures based on polymer/CNT nanocomposites via two-photon polymerization. <i>Microelectronic Engineering</i> , 2017, 179, 48-55.	1.1	28
74	Optimized expression-based microdissection of formalin-fixed lung cancer tissue. <i>Laboratory Investigation</i> , 2017, 97, 863-872.	1.7	3
75	Impact of liquid environment on femtosecond laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	29
76	Mikroresonatorarray: Ein besonderer optischer Sensor. <i>TM Technisches Messen</i> , 2017, 84, 373-380.	0.3	0
77	Generation of bioinspired structural colors via two-photon polymerization. <i>Scientific Reports</i> , 2017, 7, 17622.	1.6	48
78	Optical assembly of microsnap-fits fabricated by two-photon polymerization. <i>Optical Engineering</i> , 2017, 56, 1.	0.5	6
79	Graphene oxide reduction induced by femtosecond laser irradiation. , 2017, , .		1
80	Laser-based assembler and microfluidic applications. , 2017, , 33-64.		0
81	Simultaneous real-time application and direct comparison of optical resonance sensing and fluorescence tagging techniques for biochemical component detection. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
82	Quantification of whispering gallery mode spectrum variability in application to sensing nanobiophotonics. <i>Journal of Nanophotonics</i> , 2017, 11, 1.	0.4	7
83	Long-term functionalization of optical resonance sensor spots. , 2016, , .		0
84	Influence of the Liquid on Femtosecond Laser Ablation of Iron. <i>Physics Procedia</i> , 2016, 83, 114-122.	1.2	17
85	Spherical Microresonators. <i>Optik & Photonik</i> , 2016, 11, 48-51.	0.3	1
86	Direct Metal Deposition of Refractory High Entropy Alloy MoNbTaW. <i>Physics Procedia</i> , 2016, 83, 624-633.	1.2	106
87	Characterization of azimuthal and radial velocity fields induced by rotors in flows with a low Reynolds number. <i>Physical Review E</i> , 2016, 93, 023108.	0.8	7
88	Recognition of pharmaceuticals with compact mini-Raman-spectrometer and automatized pattern recognition algorithms. , 2016, , .		1
89	Investigation on femto-second laser irradiation assisted shock peening of medium carbon (0.4% C) steel. <i>Applied Surface Science</i> , 2016, 364, 133-140.	3.1	33
90	Optical screw-wrench for interlocking 2PP-microstructures. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1

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91	Throughput optimization for laser micro structuring. , 2016, , .		0
92	Influence of the sensitivity of an optical resonator with a surface layer by its properties. Proceedings of SPIE, 2016, , .	0.8	0
93	Performance testing of a mid-infrared spectroscopic system for clinical chemistry applications utilising an ultra-broadband tunable EC-QCL radiation source. , 2016, , .		1
94	Characterization of a multi-module tunable EC-QCL system for mid-infrared biofluid spectroscopy for hospital use and personalized diabetes technology. , 2016, , .		2
95	Drying of Iron Chloride Solutions: Laser Heating of Levitated Single Particles. Chemical Engineering and Technology, 2015, 38, 947-951.	0.9	1
96	Im Zeichen der Miniaturisierung. Forschung, 2015, 40, 14-18.	0.0	0
97	Miniaturisation is the Name of the Game. German Research, 2015, 37, 28-33.	0.1	0
98	Lasers are Innovation Drivers in Manufacturing. Laser Technik Journal, 2015, 12, 1-1.	0.4	0
99	Array sensor: plasmonic improved optical resonance methods and instrument for biomedical diagnostics. Proceedings of SPIE, 2015, , .	0.8	1
100	Effect of process parameters on the formation of laser-induced nanoparticles during material processing with continuous solid-state lasers. Journal of Laser Applications, 2015, 27, .	0.8	12
101	Multivariate Characterization of a Continuous Soot Monitoring System Based on Raman Spectroscopy. Aerosol Science and Technology, 2015, 49, 997-1008.	1.5	9
102	Mid-infrared spectroscopic characterisation of an ultra-broadband tunable EC-QCL system intended for biomedical applications. Proceedings of SPIE, 2015, , .	0.8	5
103	Graphene-intercalated Fe ₂ O ₃ /TiO ₂ heterojunctions for efficient photoelectrolysis of water. RSC Advances, 2015, 5, 101401-101407.	1.7	9
104	Optically Induced Nanostructures. , 2015, , .		14
105	Array sensor: plasmonic improved optical resonance methods and instrument for biomedical diagnostics. , 2015, , .		0
106	Generation of microfluidic flow using an optically assembled and magnetically driven microrotor. Journal Physics D: Applied Physics, 2014, 47, 505501.	1.3	14
107	Comparison of in Situ and ex Situ Methods for Synthesis of Two-Photon Polymerization Polymer Nanocomposites. Polymers, 2014, 6, 2037-2050.	2.0	126
108	Impact of Process Parameters on the Laser-induced Nanoparticle Formation During Keyhole Welding under Remote Conditions. Physics Procedia, 2014, 56, 477-486.	1.2	2

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109	Holographic optical tweezers: microassembling of shape-complementary 2PP building blocks. , 2014, , .		0
110	Selective laser patterning in organic solar cells. Proceedings of SPIE, 2014, , .	0.8	3
111	Resolution and aspect ratio in two-photon lithography of positive photoresist. Journal of Laser Applications, 2014, 26, 022002.	0.8	3
112	Seminal Tools for Roll-to-Roll Manufacturing. Laser Technik Journal, 2014, 11, 21-25.	0.4	4
113	Ex-situ preparation of high-conductive polymer/SWNTs nanocomposites for structure fabrication. Proceedings of SPIE, 2014, , .	0.8	0
114	Plasmonic improvement of microcavity biomedical sensor spectroscopic characteristics. , 2014, , .		2
115	Impact of solvent mixture on iron nanoparticles generated by laser ablation. , 2014, , .		2
116	Optical tweezers as manufacturing and characterization tool in microfluidics. , 2014, , .		2
117	Dynamical behavior of laser-induced nanoparticles during remote processing. Proceedings of SPIE, 2014, , .	0.8	0
118	Spherical optical microresonator array as a multi-purpose measuring device. Proceedings of SPIE, 2014, , .	0.8	1
119	Phase equilibrium measurements of acoustically levitated squalaneâ€“CO ₂ mixtures by Raman spectroscopy. Journal of Raman Spectroscopy, 2014, 45, 680-685.	1.2	8
120	Generation of NiTi Nanoparticles by Femtosecond Laser Ablation in Liquid. Journal of Materials Engineering and Performance, 2014, 23, 2482-2486.	1.2	12
121	Influence of multiple particles in optical tweezers on the trapping efficiency. , 2014, , .		2
122	Biochemical component identification by plasmonic improved whispering gallery mode optical resonance based sensor. Proceedings of SPIE, 2014, , .	0.8	2
123	Biochemical component identification by light scattering techniques in whispering gallery mode optical resonance based sensor. Proceedings of SPIE, 2014, , .	0.8	2
124	Micro-patterning of self-assembled organic monolayers by using tunable ultrafast laser pulses. Proceedings of SPIE, 2014, , .	0.8	0
125	Tailored Beam Shaping for Laser Spot Joining of Highly Conductive Thin Foils. Physics Procedia, 2014, 56, 750-758.	1.2	17
126	Influence of Varying Thermodynamic Magnitudes on the Acoustic Levitation of Particles in a Single Axis Ultrasonic Levitator. International Journal of Chemical Engineering and Applications (IJCEA), 2014, 5, 223-228.	0.3	2

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127	Selective Ablation of Thin Films by Pulsed Laser. Springer Series in Materials Science, 2014, , 201-219.	0.4	0
128	Optically Generated Sub-100 nm Structures for Biomedical and Technical Applications. Physics Procedia, 2013, 41, 1-3.	1.2	2
129	Femtosecond-laser processing of nitrobiphenylthiol self-assembled monolayers. Applied Surface Science, 2013, 278, 43-46.	3.1	3
130	Optical micro-assembling of non-spherical particles. Proceedings of SPIE, 2013, , .	0.8	2
131	Fluid pumping cell of photonic - plasmonic microcavity sensor for biomedical application. , 2013, , .		0
132	Diagnostics of biomedical agents by whispering gallery mode optical resonance based sensor. , 2013, , .		1
133	Investigation of the Formation of Nanoparticles During Laser Remote Welding. Physics Procedia, 2013, 41, 90-97.	1.2	8
134	Femtosecond Laser Ablation of ITO/ZnO for Thin Film Solar Cells. Physics Procedia, 2013, 41, 802-809.	1.2	13
135	Optical tweezers in microassembly. , 2013, , .		7
136	Drag detection and identification by whispering gallery mode optical resonance based sensor. , 2013, , .		0
137	A modular assembling platform for manufacturing of microsystems by optical tweezers. Proceedings of SPIE, 2013, , .	0.8	0
138	Spatial and Temporal Manipulation of Ultrafast Laser Pulses for Micro- and Nano-Processing. , 2013, , 201-242.		0
139	Laser joining of charge-collection tapes onto CIGS photovoltaics modules. , 2013, , .		0
140	Size Control of Gold Nanoparticles During Laser Ablation In Liquids With Different Functional Molecules. Journal of Laser Micro Nanoengineering, 2013, 8, 131-136.	0.4	16
141	Sub-wavelength patterning of self-assembled organic monolayers via non-collinear optical parametric amplifier. , 2013, , .		0
142	Ultrafast Laser Processing for Industrial Applications. The Review of Laser Engineering, 2013, 41, 790.	0.0	0
143	Development of a single-axis ultrasonic levitator and the study of the radial particle oscillations. AIP Conference Proceedings, 2012, , .	0.3	7
144	Microassembly of complex and three-dimensional microstructures using holographic optical tweezers. Journal of Micromechanics and Microengineering, 2012, 22, 065016.	1.5	29

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145	Experimental analysis of the particle oscillations in acoustic levitation. , 2012, , .		6
146	Classification of antibiotics by neural network analysis of optical resonance data of whispering gallery modes in dielectric microspheres. , 2012, , .		4
147	Process limitations in microassembling using holographic optical tweezers. , 2012, , .		3
148	Assembling and Manipulating with Light. Optik & Photonik, 2012, 7, 44-47.	0.3	2
149	Whispering gallery mode pressure sensing. Proceedings of SPIE, 2012, , .	0.8	5
150	A light-driven turbine-like micro-rotor and study on its light-to-mechanical power conversion efficiency. Applied Physics Letters, 2012, 101, .	1.5	37
151	Selective Ablation of Thin Films by Ultrashort Laser Pulses. Physics Procedia, 2012, 39, 594-602.	1.2	14
152	Laser direct writing of high refractive index polymer/TiO2 nanocomposites. , 2012, , .		2
153	Incubation effect and its influence on laser patterning of ITO thin film. Applied Physics A: Materials Science and Processing, 2012, 107, 333-338.	1.1	29
154	Using Laser Microfabrication to Write Conductive Polymer/SWNTs Nanocomposites. Journal of Laser Micro Nanoengineering, 2012, 7, 44-48.	0.4	18
155	Ultrashort Laser Pulses in Thin Film Ablation. , 2012, , .		0
156	Classification of the micro and nanoparticles and biological agents by neural network analysis of the parameters of optical resonance of whispering gallery mode in dielectric microspheres. Proceedings of SPIE, 2011, , .	0.8	2
157	Surface texturing by laser cladding. Journal of Laser Applications, 2011, 23, 022008.	0.8	6
158	Laser selective patterning of ITO on flexible PET for organic photovoltaics. Proceedings of SPIE, 2011, , .	0.8	2
159	Microfabrication by optical tweezers. Proceedings of SPIE, 2011, , .	0.8	2
160	Pollen characterization and identification by elastically scattered light. Journal of Biophotonics, 2011, 4, 49-56.	1.1	15
161	Selective Patterning of ITO on flexible PET Substrate by 1064 nm picosecond Laser. Physics Procedia, 2011, 12, 125-132.	1.2	25
162	Analysis of the particle stability in a new designed ultrasonic levitation device. Review of Scientific Instruments, 2011, 82, 105111.	0.6	53

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163	Laser direct writing of nanocompounds. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	0
164	Picosecond Laser Direct Patterning of Poly(3,4-ethylene dioxythiophene)-Poly(styrene sulfonate) (PEDOT:PSS) Thin Films. Journal of Laser Micro Nanoengineering, 2011, 6, 249-254.	0.4	18
165	Classification of the micro and nanoparticles and biological agents by neural network analysis of the parameters of optical resonance of whispering gallery mode in dielectric microspheres. , 2011, , .		2
166	Optical micro resonance based sensor schemes for detection and identification of nano particles and biological agents in situ. Proceedings of SPIE, 2010, , .	0.8	3
167	Biocompatibility of nanoactuators: stem cell growth on laser-generated nickel-titanium shape memory alloy nanoparticles. Journal of Nanoparticle Research, 2010, 12, 1733-1742.	0.8	26
168	Raman Spectroscopy on Single Levitated Particles. Chemie-Ingenieur-Technik, 2010, 82, 2059-2071.	0.4	1
169	Optically based manufacturing with polymer particles. Physics Procedia, 2010, 5, 47-51.	1.2	20
170	Comparison of nanosecond and femtosecond laser selective patterning technology applied in organic solar cells interconnection. , 2010, , .		0
171	Micro- and nano-parts generated by laser-based solid freeform fabrication. , 2010, , 695-734.		4
172	Temperature sensing by using whispering gallery modes with hollow core fibers. Measurement Science and Technology, 2010, 21, 094015.	1.4	38
173	High resolution spectroscopy with a microparticle array sensor. , 2010, , .		1
174	Real time monitoring of micro and nano particles, blood phantoms in situ by optical micro resonance methods. , 2010, , .		0
175	Drilling, Cutting, Welding, Marking and Microforming. Springer Series in Materials Science, 2010, , 311-335.	0.4	7
176	Laser Material Processing. , 2010, , 259-298.		1
177	Optical emission imaging and spectroscopy during femtosecond laser ablation of thin metal films on flexible polymer substrates. , 2009, , .		3
178	Laser-assisted micro-forming process with miniaturised structures in sapphire dies. Applied Surface Science, 2009, 255, 9830-9834.	3.1	23
179	Laser Processing in Solar Cell Production(Invited Paper). Zhongguo Jiguang/Chinese Journal of Lasers, 2009, 36, 3116-3124.	0.2	0
180	Integrated optical micro structures for signal processing in the position metrology. Microsystem Technologies, 2008, 14, 1955-1960.	1.2	1

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181	Laser beam shaping for micromaterial processing using a liquid crystal display. , 2008, , .		3
182	Photopolymers with tunable mechanical properties processed by laser-based high-resolution stereolithography. Journal of Micromechanics and Microengineering, 2008, 18, 125014.	1.5	191
183	Subwavelength patterning of alkylsiloxane monolayers via nonlinear processing with single femtosecond laser pulses. Applied Physics Letters, 2008, 92, .	1.5	28
184	Tailored hybrid blank productionâ€™New joining concepts using different solders. Journal of Laser Applications, 2008, 20, 224-229.	0.8	5
185	Increasing Rigidity and Strength using Local Effects of Bead-on-Plate Laser Welding Seams. Steel Research International, 2008, 79, 191-195.	1.0	1
186	Lasers in energy device manufacturing. Proceedings of SPIE, 2008, , .	0.8	6
187	Guidance and stabilisation of electric arc welding using Nd:YAG laser radiation. , 2008, , .		5
188	Laser welding of shape memory alloys for medical applications. , 2008, , .		2
189	Laser controlled multifunctionalization of polymer surfaces for industrial applications. , 2008, , .		3
190	Picosecond lasers in industrial applications. , 2008, , .		3
191	Picosecond double-pulse ablation in silicon and aluminium with variable delay. , 2008, , .		2
192	Properties of Three-Dimensional Precision Objects Fabricated by Using Laser Based Micro Stereo Lithography. Journal of Laser Micro Nanoengineering, 2008, 3, 67-72.	0.4	16
193	Laser cladding with integrated surface micro-structures. , 2008, , .		0
194	Inductively supported laser beam welding of high and ultra high strength steel grades. , 2008, , .		0
195	Influence of laser wavelength and pulse duration on processing of crystalline silicon. , 2008, , .		4
196	Exploratory Experiments on Machined Riblets for 2-D Compressor Blades. , 2007, , 25.		16
197	Femtosecond laser microstructuring of hot-isostatically pressed zirconia ceramic. Journal of Laser Applications, 2007, 19, 107-115.	0.8	33
198	Laser direct writing of thin-film copper structures as a modification of lithographic processes. Journal of Physics: Conference Series, 2007, 59, 408-412.	0.3	2

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199	Local Effects of Welding Seams with Laser-Based Joining Concepts for High-Strength Load-Transferring Structure Modules. <i>Advanced Materials Research</i> , 2007, 22, 49-55.	0.3	0
200	Micro welding of electronic components with 532nm laser radiation. , 2007, , .		2
201	Qualification of personal protective equipment for the use of hand-held laser processing devices. , 2007, , .		3
202	Nanoparticles - Potential risk during pulsed laser ablation. , 2007, , .		1
203	Multi-focus system for two-photon polymerization using phase modulated holographic technique. , 2007, , .		0
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