Cornelia Denz

List of Publications by Year
in descending order

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480	8,717	50276	71685
papers	citations	46 h-index	76 g-index

511	511	511	4952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light transport and localization in disordered aperiodic Mathieu lattices. Optics Letters, 2022, 47, 702.	3.3	3
2	Analyzing light-structuring features of droplet lenses on liquid-repelling surfaces. Optics Express, 2022, 30, 5937.	3.4	3
3	Localized States Emerging from Singular and Nonsingular Flat Bands in a Frustrated Fractalâ€Like Photonic Lattice (Advanced Optical Materials 9/2022). Advanced Optical Materials, 2022, 10, .	7.3	0
4	Optical grinder: sorting of trapped particles by orbital angular momentum. Optics Express, 2021, 29, 12967.	3.4	32
5	Aperiodic biomimetic Vogel spirals as diffractive optical elements for tailored light distribution in functional polymer layers. Journal of Optics (United Kingdom), 2021, 23, 065401.	2.2	3
6	Fully-structured counter-propagating optical trap sculpted by spherical aberration. Journal of Optics (United Kingdom), 2021, 23, 064002.	2.2	1
7	Customization and analysis of structured singular light fields. Journal of Optics (United Kingdom), 2021, 23, 073501.	2.2	4
8	Pattern formation in colloids driven by optical single feedback. , 2021, , .		0
9	Topologically structured singularity networks of light in three dimensions. , 2021, , .		0
10	Three-dimensional fully-structured light by counter-propagation of self-similar beams. , 2021, , .		0
11	Multi-frequency passive and active microrheology with optical tweezers. Scientific Reports, 2021, 11, 13917.	3.3	4
12	Self-imaging vectorial singularity networks in 3d structured light fields. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.2	3
13	Manipulating aqueous droplets by light-induced virtual electrodes. , 2021, , .		0
14	Shaping light in 3d space by counter-propagation. Scientific Reports, 2021, 11, 18019.	3.3	9
15	Particle-like topologies in light. Nature Communications, 2021, 12, 6785.	12.8	67
16	Shaping caustics into propagation-invariant light. Nature Communications, 2020, 11, 3597.	12.8	62
17	Optical trapping gets structure: Structured light for advanced optical manipulation. Applied Physics Reviews, 2020, 7, .	11.3	116
18	Light propagation in aperiodic photonic lattices created by synthesized Mathieuâ€“Gauss beams. Applied Physics Letters, 2020, 117, .	3.3	5

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19	The endothelial basement membrane acts as a checkpoint for entry of pathogenic T cells into the brain. Journal of Experimental Medicine, 2020, 217, .	8.5	37
20	High-dimensional cryptography with spatial modes of light: tutorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A309.	2.1	41
21	Waveguide-integrated three-dimensional quasi-phase-matching structures. Optica, 2020, 7, 28.	9.3	51
22	Ultrashort laser pulse-assisted nonlinear photonic lattices. , 2020, , .		0
23	Pyroelectric field-assisted domain inversion in ferroelectric crystals: Role of temperature. , 2020, , .		0
24	Customizing Caustics. Optics and Photonics News, 2020, 31, 48.	0.5	0
25	Customizing caustics in propagation-invariant beams. , 2020, , .		0
26	Photonic twisted bilayer graphene superlattices in photorefractive media. , 2020, , .		0
27	Polarization nano-tomography of tightly focused light landscapes by self-assembled monolayers. Nature Communications, 2019, 10, 4308.	12.8	23
28	Shaping optical spin flow topologies by the translation of tailored orbital phase flow. Journal of Optics (United Kingdom), 2019, 21, 064001.	2.2	11
29	Structuring and Securing Data with Holographyâ€"A Holistic Interdisciplinary Approach. , 2019, , 251-262.		0
30	Optical singularities and MÃ¶bius strip arrays in tailored non-paraxial light fields. Optics Express, 2019, 27, 29685.	3.4	20
31	Polycrystalline diamond photonic waveguides realized by femtosecond laser lithography. Optical Materials Express, 2019, 9, 3109.	3.0	10
32	Photonik â€“ Von der klassischen Optik zur Zukunft des Lichts. , 2019, , 197-206.		0
33	Optical Trapping and Optomechanically-Assisted Assembly of Non-Spherical Nanocontainers. , 2019, , .		0
34	Enhanced optical rogue waves by scattering caustic networks in tailored disorder. , 2019, , .		0
35	Femtosecond Laser-Induced Nonlinear Photonic Structures in Lithium Niobate. , 2019, , .		0
36	Morphing discrete diffraction in nonlinear Mathieu lattices. Optics Letters, 2019, 44, 1592.	3.3	4

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37	Visualizing the Energy Flow of Tailored Light. Advanced Optical Materials, 2018, 6, 1701355.	7.3	3
38	Conical Refraction Bottle Beams for Entrapment of Absorbing Droplets. Scientific Reports, 2018, 8, 5029.	3.3	7
39	Synchronization in pairs of rotating active biomotors. Soft Matter, 2018, 14, 3073-3077.	2.7	4
40	Polarization Singularity Explosions in Tailored Light Fields. Laser and Photonics Reviews, 2018, 12, 1700200.	8.7	41
41	Optomechanically Assisted Assembly of Surfaceâ€Functionalized Zeoliteâ€Lâ€Based Hybrid Soft Matter. Particle and Particle Systems Characterization, 2018, 35, 1800041.	2.3	2
42	Elliptical vortex necklaces in Mathieu lattices. Physical Review A, 2018, 97, .	2.5	5
43	'Digital me'. , 2018, , .		0
44	Recovery of nonseparability in self-healing vector Bessel beams. Physical Review A, 2018, 98, .	2.5	39
45	Local domain inversion in MgO-doped lithium niobate by pyroelectric field-assisted femtosecond laser lithography. Applied Physics Letters, 2018, 113, .	3.3	36
46	Spatial multiplexing for tailored fully-structured light. Journal of Optics (United Kingdom), 2018, 20, 105606.	2.2	21
47	Entanglement beating in free space through spinâ€“orbit coupling. Light: Science and Applications, 2018, 7, 18009-18009.	16.6	88
48	Polarization Singularity Explosions in Tailored Light Fields (Laser Photonics Rev. 12(6)/2018). Laser and Photonics Reviews, 2018, 12, 1870028.	8.7	1
49	Introduction: Nonlinear Optics (NLO) 2017 feature issue. Optics Express, 2018, 26, 3577.	3.4	0
50	Introduction: nonlinear optics (NLO) 2017 feature issue. Optical Materials Express, 2018, 8, 491.	3.0	0
51	Massive ordering and alignment of cylindrical micro-objects by photovoltaic optoelectronic tweezers. Optics Letters, 2018, 43, 30.	3.3	27
52	Optical Force Sensing with Cylindrical Microcontainers. Particle and Particle Systems Characterization, 2018, 35, 1800062.	2.3	2
53	Self-healing high-dimensional quantum key distribution using hybrid spin-orbit Bessel states. Optics Express, 2018, 26, 26946.	3.4	50
54	Sculpting complex polarization singularity networks. Optics Letters, 2018, 43, 5821.	3.3	27

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55	Nonlinear 3D photonic structures by femtosecond laser lithography. , 2018, , .		0
56	Nonlinear light propagation in hexagonal morphing umbilic caustic lattices. , 2018, , .		0
57	Nonlinear photonic structures by pyroelectric-assisted femtosecond laser lithography. , 2018, , .		0
58	Caustic-based nonlinear photonic lattices. , 2018, , .		0
59	Multimodal in vivo blood flow sensing combining particle image velocimetry and optical tweezers-based blood steering. , 2018, , .		0
60	Customized focal light landscapes by complex vectorial fields for advanced optical trapping. , 2018, , .		0
61	3D Imaging: 3D Imaging of Ferroelectric Kinetics during Electrically Driven Switching (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	0
62	Holographic optical tweezersâ€based in vivo manipulations in zebrafish embryos. Journal of Biophotonics, 2017, 10, 1492-1501.	2.3	32
63	Tailored vectorial light fields: flower, spider web and hybrid structures. Proceedings of SPIE, 2017, , .	0.8	0
64	Biolens behavior of RBCs under opticallyâ€induced mechanical stress. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 527-533.	1.5	27
65	Pearcey solitons in curved nonlinear photonic caustic lattices. Journal of Optics (United Kingdom), 2017, 19, 094001.	2.2	17
66	Endoglin controls blood vessel diameter through endothelial cell shape changes in response to haemodynamic cues. Nature Cell Biology, 2017, 19, 653-665.	10.3	174
67	Optical catastrophes of the swallowtail and butterfly beams. New Journal of Physics, 2017, 19, 053004.	2.9	39
68	Holographic interferometric and correlation-based laser speckle metrology for 3D deformations in dentistry. , 2017, , .		0
69	Observation of transverse coherent backscattering in disordered photonic structures. Scientific Reports, 2017, 7, 10439.	3.3	11
70	Creating aperiodic photonic structures by synthesized Mathieu-Gauss beams. Physical Review A, 2017, 96, .	2.5	7
71	Dynamic modulation of PoincarÃ© beams. Scientific Reports, 2017, 7, 8076.	3.3	43
72	In vivo vascular flow profiling combined with optical tweezers based blood routing. Proceedings of SPIE, 2017, , .	0.8	0

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73	Waveguides: Chiral Light in Helically Twisted Photonic Lattices (Advanced Optical Materials 16/2017). Advanced Optical Materials, 2017, 5, .	7.3	0
74	Compact flat band states in optically induced flatland photonic lattices. Applied Physics Letters, 2017, 111, .	3.3	30
75	RBCs as microlenses: wavefront analysis and applications. , 2017, , .		0
76	Chiral Light in Helically Twisted Photonic Lattices. Advanced Optical Materials, 2017, 5, 1600629.	7.3	22
77	3D Imaging of Ferroelectric Kinetics during Electrically Driven Switching. Advanced Materials, 2017, 29, 1603325.	21.0	26
78	Roadmap on structured light. Journal of Optics (United Kingdom), 2017, 19, 013001.	2.2	888
79	An acoustic teaching model illustrating the principles of dynamic mode magnetic force microscopy. Nanotechnology Reviews, 2017, 6, 221-232.	5.8	1
80	Embedding umbilic catastrophes in artificially designed caustic beams. , 2017, , .		0
81	Tailored intensity landscapes by tight focusing of singular vector beams. Optics Express, 2017, 25, 20194.	3.4	41
82	Dynamics of the optical swallowtail catastrophe. Optica, 2017, 4, 1157.	9.3	32
83	Ferroelectric domain diagnostics near the phase transition by ÄŒerenkov second-harmonic generation. Optical Materials Express, 2017, 7, 3448.	3.0	8
84	Direct writing of order in naturally disordered nonlinear photonic crystals. , 2017, , .		0
85	Lithium Niobate Micromachining for the Fabrication of Microfluidic Droplet Generators. Micromachines, 2017, 8, 185.	2.9	13
86	Controlling autonomous nanobiorobots by optical micromanipulation. , 2017, , 411-439.		1
87	Orientation and patterning of zeolite micro-crystals on photorefractive templates. Journal of Physics: Conference Series, 2017, 867, 012019.	0.4	0
88	Controlling light in Airy and higher-order caustic photonic structures. Journal of Physics: Conference Series, 2017, 867, 012022.	0.4	0
89	Realizing curved nonlinear photonic caustic lattices by tailored optical catastrophes. , 2017, , .		0
90	Light localization in optically induced deterministic aperiodic Fibonacci lattices. Optica, 2016, 3, 711.	9.3	21

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91	Three-dimensional visualizing of ferroelectric domain growth and switching using ÄŒerenkov second-harmonic generation. , 2016, , .		0
92	Integrated optofluidics: Optical control of particles and droplets in fluidic environments. , 2016, , .		0
93	Control of light in complex aperiodic and random photonic lattices. , 2016, , .		0
94	Conical Diffraction and Composite Lieb Bosons in Photonic Lattices. Physical Review Letters, 2016, 116, 183902.	7.8	112
95	Observation of spatially oscillating solitons in photonic lattices. New Journal of Physics, 2016, 18, 053038.	2.9	2
96	Higher-order polarization singularitites in tailored vector beams. Journal of Optics (United Kingdom), 2016, 18, 074012.	2.2	65
97	Spatiotemporally Resolved Tracking of Bacterial Responses to ROS-Mediated Damage at the Single-Cell Level with Quantitative Functional Microscopy. ACS Applied Materials & Interfaces, 2016, 8, 15046-15057.	8.0	13
98	Controlled soliton formation in tailored Bessel photonic lattices. Optics Express, 2016, 24, 12933.	3.4	13
99	Soliton formation by interacting Airy beams. , 2016, , .		0
100	P3HT:DiPBI bulk heterojunction solar cells: morphology and electronic structure probed by multiscale simulation and UV/vis spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 6217-6227.	2.8	15
101	Caustic diffraction catastrophes: Optical swallowtail and butterfly beams. , 2016, , .		4
102	Selberdenken! â€“ Ein Workshopkonzept am auÃŸerschulischen Lernort. Essentials, 2016, , 21-40.	0.1	0
103	Ansichten Ã¼ber die Natur der Naturwissenschaften. Essentials, 2016, , 5-12.	0.1	0
104	GrundzÃ¼ge und Anwendung der Naturphilosophie. Essentials, 2016, , 13-19.	0.1	0
105	Nonlinear Beam Shaping with Femtosecond Laser-Induced Volume Phase Holograms in Lithium Niobate. , 2016, , .		0
106	Tracing the spatiotemporally resolved inactivation of optically arranged bacteria by photofunctional microparticles at the single-cell level (Conference Presentation). , 2016, , .		0
107	Controlling the effective second-order susceptibility in random quadratic media. Optics Express, 2015, 23, 33980.	3.4	4
108	Through the looking glass â€“ the adventures of seeing beyond the diffraction limit. Annalen Der Physik, 2015, 527, A77.	2.4	3

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109	Simultaneous type I and type II ÄŒerenkov-phase matched second-harmonic generation in disordered nonlinear photonic structures. Optics Express, 2015, 23, 28369.	3.4	1
110	Monolithic fabrication of quasi phase-matched waveguides by femtosecond laser structuring the Ï‡(2) nonlinearity. Applied Physics Letters, 2015, 107, .	3.3	46
111	Design and fabrication of two-dimensional deterministic aperiodic photonic lattices by optical induction. , 2015, , .		2
112	Synthesis and photo-postmodification of zeolite L based polymer brushes. Polymer Chemistry, 2015, 6, 4221-4229.	3.9	11
113	Fabrication of chirped and multi-period waveguide embedded Bragg gratings in lithium niobate. , 2015, , .		1
114	Integrated optics on Lithium Niobate for sensing applications. Proceedings of SPIE, 2015, , .	0.8	10
115	Simultaneous acquisition of 3D shape and deformation by combination of interferometric and correlation-based laser speckle metrology. Biomedical Optics Express, 2015, 6, 4825.	2.9	18
116	Measuring facial symmetry: a perception-based approach using 3D shape and color. Biomedizinische Technik, 2015, 60, 39-47.	0.8	11
117	Nanoassembled dynamic optical waveguides and sensors based on zeolite L nanocontainers. , 2015, , .		1
118	Elegant Gaussian beams for enhanced optical manipulation. Applied Physics Letters, 2015, 106, .	3.3	35
119	Complex light fields enter a new dimension: holographic modulation of polarization in addition to amplitude and phase. Proceedings of SPIE, 2015, , .	0.8	25
120	Optical assembly of bio-hybrid micro-robots. Biomedical Microdevices, 2015, 17, 26.	2.8	41
121	Soliton formation by decelerating interacting Airy beams. Optics Express, 2015, 23, 24351.	3.4	44
122	Structure of P3HT crystals, thin films, and solutions by UV/Vis spectral analysis. Physical Chemistry Chemical Physics, 2015, 17, 28616-28625.	2.8	60
123	Complex light for optical micro-manipulation: amplitude, phase and polarization modulation. , 2015, , .		0
124	Optofluidic droplet router. Laser and Photonics Reviews, 2015, 9, 98-104.	8.7	54
125	Correlation effects in Anderson localization and light transport in a 2D photonic disorder. , 2015, , .		0
126	Discrete vortex propagation in three-dimensional twisted waveguide arrays. , 2015, , .		0

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127	Direct Inscription of Quasi Phase-Matching Waveguide Structures in Lithium Niobate. , 2015, , .		0
128	Transverse strong to weak localization in nonlinearly induced photonic random structures. , 2015, , .		0
129	Tailoring the effective second-order nonlinear coefficients in random media. , 2015, , .		0
130	Polarization Independent, Tunable Waveguide Bragg Gratings in Lithium Niobate by Femtosecond Laser Micromachining. , 2014, , .		0
131	Femtosecond-laser Inscribed, Tunable, Waveguide Embedded Bragg Gratings in Lithium Niobate. , 2014, , .		0
132	Structured attachment of bacterial molecular motors for defined microflow induction. Optofluidics, Microfluidics and Nanofluidics, 2014, 1, .	0.5	7
133	Observation of Conical Diffraction in Photonic Lieb Lattices. , 2014, , .		0
134	All-optical switching in optically induced nonlinear waveguide couplers. Applied Physics Letters, 2014, 104, .	3.3	32
135	Mikrowelt im Lichtgriff. Physik in Unserer Zeit, 2014, 45, 36-42.	0.0	2
136	Gefangen im Fokus des Lasers. Physik in Unserer Zeit, 2014, 45, 94-96.	0.0	2
137	Apodized structures for the integration of defect sites into photonic lattices. Applied Physics Letters, 2014, 105, 111102.	3.3	2
138	Airy beams propagation in optically induced photonic lattices. , 2014, , .		0
139	Electroâ€“optical tunable waveguide embedded multiscan Bragg gratings in lithium niobate by direct femtosecond laser writing. Optics Express, 2014, 22, 23339.	3.4	60
140	Optical induction scheme for assembling nondiffracting aperiodic Vogel spirals. Applied Physics Letters, 2014, 104, 191101.	3.3	18
141	Two-photon fabrication of organic solid-state distributed feedback lasers in rhodamine 6G doped SU-8. Applied Physics B: Lasers and Optics, 2014, 117, 311-315.	2.2	9
142	Control of Airy-beam self-acceleration by photonic lattices. Physical Review A, 2014, 90, .	2.5	20
143	T-junction droplet generator realised in lithium niobate crystals by laser ablation. Optofluidics, Microfluidics and Nanofluidics, 2014, 1, .	0.5	11
144	Femtosecond Laser-Induced Volume Gratings in Lithium Niobate for Noncollinear Second-Harmonic Generation. , 2014, , .		0

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145	Nonlinear All-optical Vortex Switch in Optically Induced Two-dimensional Waveguide Arrays. , 2014, , .		0
146	Type I and Type II ÄŒerenkov Second-Harmonic Generation Microscopy in Ï‡(2)-Disordered Media. , 2014, , .		1
147	Towards 3D modelling and imaging of infection scenarios at the single cell level using holographic optical tweezers and digital holographic microscopy. Journal of Biophotonics, 2013, 6, 260-266.	2.3	34
148	Charge sensor and particle trap based on z-cut lithium niobate. Applied Physics Letters, 2013, 103, .	3.3	58
149	Fabrication of a DFB Laser in SU-8 by direct femtosecond laser writing. , 2013, , .		0
150	Light in disordered nonlinear photonic structures. , 2013, , .		0
151	Liquidity crisis detection: An application of log-periodic power law structures to default prediction. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3666-3681.	2.6	18
152	Airy beam induced optical routing. Applied Physics Letters, 2013, 102, .	3.3	168
153	Advanced optical trapping by complex beam shaping. Laser and Photonics Reviews, 2013, 7, 839-854.	8.7	315
154	Highly reduced iron-doped lithium niobate for optoelectronic tweezers. Applied Physics B: Lasers and Optics, 2013, 113, 191-197.	2.2	32
155	Threeâ€Dimensional Exploration and Mechanoâ€Biophysical Analysis of the Inner Structure of Living Cells. Small, 2013, 9, 885-893.	10.0	30
156	Defect-controlled transverse localization of light in disordered photonic lattices. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 898.	2.1	6
157	ÄŒerenkov-type second-harmonic spectroscopy in random nonlinear photonic structures. Optics Express, 2013, 21, 8220.	3.4	19
158	Effect of the domain shape on noncollinear second-harmonic emission in disordered quadratic media. Optics Express, 2013, 21, 31462.	3.4	3
159	Analysis of transverse Anderson localization in refractive index structures with customized random potential. Optics Express, 2013, 21, 31713.	3.4	24
160	Optical tweezers assembly line for the micro-assembly of functional zeolite nanocontainer structures. , 2013, , .		0
161	Transition from diffraction in regular to Anderson localization in randomized nondiffracting photonic structures. , 2013, , .		0
162	Nichtlineare Optik â€“ ein Dauerbrenner. Physik in Unserer Zeit, 2013, 44, 107-107.	0.0	0

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163	Electro-optical tuning of waveguide embedded Bragg gratings in lithium niobate induced by direct femtosecond laser writing. , 2013, , .		0
164	Effect of domain shape on noncollinear second-harmonic emission in disordered quadratic media. , 2013, , .		0
165	Nonlinear beam splitter based on second-harmonic generation by femtosecond laser-induced phase gratings in lithium niobate. , 2013, , .		0
166	Experimental observation of synchronization in a biomechanical rotational motors system. , 2013, , .		0
167	Nonlinear complex photonic structures. , 2013, , .		0
168	Quantitative analysis of dynamic behavior of osteoblasts during in vitro formation of microâ€mass cell cultures. Journal of Biophotonics, 2013, 6, 637-644.	2.3	2
169	Spatial soliton dynamics in curved photonic lattices. , 2013, , .		0
170	Airy Beam Induced Optical Routing. Optics and Photonics News, 2013, 24, 45.	0.5	2
171	Soliton Dynamics in Complex Nonlinear Photonic Lattices. , 2013, , .		0
172	Waveguide Embedded Bragg Gratings in Nonlinear Optical Lithium Niobate by Direct Femtosecond Laser Writing. , 2013, , .		0
173	ÄŒerenkov-type second-harmonic generation spectroscopy of random nonlinear photonic structures. , 2013, , .		0
174	Influence of a mediumâ€™s nonlinearity on Anderson localization of light in optically induced photonic lattices. Optical Engineering, 2012, 51, 088001-1.	1.0	1
175	Tailored light fields: nondiffracting and self-similar beams for optical structuring and organization. Proceedings of SPIE, 2012, , .	0.8	1
176	Anderson localization of light in PT-symmetric optical lattices. Optics Letters, 2012, 37, 4455.	3.3	43
177	Embedding defect sites into hexagonal nondiffracting wave fields. Optics Letters, 2012, 37, 5009.	3.3	23
178	Electro-optical tunable waveguide Bragg gratings in lithium niobate induced by femtosecond laser writing. Optics Express, 2012, 20, 26922.	3.4	47
179	Multiplexing complex two-dimensional photonic superlattices. Optics Express, 2012, 20, 27331.	3.4	18
180	TPD doped polystyrene as charge transporter in DiPBI sensitized photorefractive composites. Optical Materials Express, 2012, 2, 856.	3.0	3

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181	Multiplexing and switching of virtual electrodes in optoelectronic tweezers based on lithium niobate. Optics Letters, 2012, 37, 3744.	3.3	35
182	Photonic ratchet superlattices by optical multiplexing. Optics Letters, 2012, 37, 797.	3.3	12
183	Enhanced ÄŒerenkov second-harmonic emission in nonlinear photonic structures. Optics Letters, 2012, 37, 1832.	3.3	38
184	Anderson localization of light at the interface between linear and nonlinear dielectric media with an optically induced photonic lattice. Physical Review A, 2012, 85, .	2.5	21
185	Video-based analysis of the rotational behaviour of rod-shaped, self-propelled bacteria in holographic optical tweezers. , 2012, , .		7
186	Nonlinear Photonic Structures. IEEE Photonics Journal, 2012, 4, 578-581.	2.0	2
187	Optical tweezers induced photodamage in living cells quantified with digital holographic phase microscopy. , 2012, , .		12
188	Disorder-induced localization of light in one- and two-dimensional photonic lattices. Physica Scripta, 2012, T149, 014042.	2.5	3
189	Surface vortex solitons near boundaries of photonic lattices. Physica Scripta, 2012, T149, 014040.	2.5	0
190	Anderson localization of light in photonic lattices for dimensional crossover. Proceedings of SPIE, 2012, , .	0.8	0
191	Holographic optical bottle beams. Applied Physics Letters, 2012, 100, .	3.3	60
192	Nonlinear lattice structures based on families of complex nondiffracting beams. New Journal of Physics, 2012, 14, 033018.	2.9	81
193	Extended Kramers-Moyal analysis applied to optical trapping. Physical Review E, 2012, 86, 026702.	2.1	8
194	Perylene bisimide derivatives as innovative sensitizers for photorefractive composites. , 2012, , .		0
195	Photophoretic trampolineâ€"Interaction of single airborne absorbing droplets with light. Applied Physics Letters, 2012, 101, .	3.3	20
196	Opto-electric particle manipulation on a bismuth silicon oxide crystal. Applied Physics Letters, 2012, 100, .	3.3	22
197	Dynamic Light Cages: Putting Absorbing Matter Behind Bars. Optics and Photonics News, 2012, 23, 48.	0.5	0
198	From Infection to Detection: Imaging S. aureus â€“ host interactions. Biomedizinische Technik, 2012, 57, .	0.8	3

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199	Dipolarâ€Modulated Chargeâ€Doped Trilayer Organic Semiconductor nâ€“n Heterojunction. Small, 2012, 8, 546-551.	10.0	0
200	Effect of nonlinearity on dynamic diffraction and interband coupling in two-dimensional hexagonal photonic lattices. Physical Review A, 2012, 86, .	2.5	2
201	Light Fields Can Tailor the Microscopic World. Optik & Photonik, 2012, 7, 47-52.	0.2	1
202	Innovative Sensitizer DiPBI Outperforms PCBM. Advanced Materials, 2012, 24, 2104-2108.	21.0	17
203	Opticalâ€Tweezers Assemblyâ€Line for the Construction of Complex Functional Zeolite L Structures. Advanced Materials, 2012, 24, 5199-5204.	21.0	32
204	Disorder-induced localization of light near edges of nonlinear photonic lattices. Optics Communications, 2012, 285, 352-355.	2.1	3
205	Characterization of the 3D resolution of topometric sensors based on fringe and speckle pattern projection by a 3D transfer function. Optics and Lasers in Engineering, 2012, 50, 465-472.	3.8	9
206	Multimodal biophotonic workstation for live cell analysis. Journal of Biophotonics, 2012, 5, 9-13.	2.3	19
207	Dynamic Weber Soliton. , 2012, , .		1
208	Femtosecond Laser-induced, Electro-optically Tunable Waveguide Bragg Gratings in Lithium Niobate. , 2012, , .		0
209	Enhanced ÄŒerenkov second-harmonic emission in nonlinear photonic structures. , 2012, , .		0
210	Cherenkov-type second- and third-harmonic generation in random quadratic media. , 2012, , .		0
211	Optical Induction of Multiperiodic Photonic Ratchets. , 2012, , .		0
212	Airy Beam Induced Optical Routing. , 2012, , .		0
213	Cascaded ÄŒerenkov third-harmonic generation in random quadratic media. Applied Physics Letters, 2011, 99, 241109.	3.3	21
214	Dynamic Diffraction and Interband Transitions in Two-Dimensional Photonic Lattices. Physical Review Letters, 2011, 106, 083902.	7.8	16
215	Light propagation in complex photonic lattices optically induced in nonlinear media. , 2011, , .		1
216	Systematic approach to complex periodic vortex and helix lattices. Optics Express, 2011, 19, 9848.	3.4	48

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217	Second harmonic generation in multi-domain Ï‡^2 media: from disorder to order. Optics Express, 2011, 19, 11340.	3.4	39
218	Vortex solitons at the boundaries of photonic lattices. Optics Express, 2011, 19, 26232.	3.4	6
219	Sculptured 3D twister superlattices embedded with tunable vortex spirals. Optics Letters, 2011, 36, 3512.	3.3	25
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