

Craig B Arnold

List of Publications by Year in descending order

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202
papers

8,105
citations

44042

48
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53190

85
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205
all docs

205
docs citations

205
times ranked

8721
citing authors

#	ARTICLE	IF	CITATIONS
1	Bessel and annular beams for materials processing. <i>Laser and Photonics Reviews</i> , 2012, 6, 607-621.	4.4	498
2	Phase behaviour of disordered proteins underlying low density and high permeability of liquid organelles. <i>Nature Chemistry</i> , 2017, 9, 1118-1125.	6.6	447
3	Stress evolution and capacity fade in constrained lithium-ion pouch cells. <i>Journal of Power Sources</i> , 2014, 245, 745-751.	4.0	393
4	Subwavelength direct-write nanopatterning using optically trapped microspheres. <i>Nature Nanotechnology</i> , 2008, 3, 413-417.	15.6	328
5	Laser Direct-Write Techniques for Printing of Complex Materials. <i>MRS Bulletin</i> , 2007, 32, 23-31.	1.7	325
6	The role of mechanically induced separator creep in lithium-ion battery capacity fade. <i>Journal of Power Sources</i> , 2011, 196, 8147-8153.	4.0	184
7	Thick film laser induced forward transfer for deposition of thermally and mechanically sensitive materials. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	183
8	Mechanical Properties of a Battery Separator under Compression and Tension. <i>Journal of the Electrochemical Society</i> , 2014, 161, F3117-F3122.	1.3	175
9	Fundamentals of Laser-Material Interaction and Application to Multiscale Surface Modification. <i>Springer Series in Materials Science</i> , 2010, , 91-120.	0.4	173
10	State of health and charge measurements in lithium-ion batteries using mechanical stress. <i>Journal of Power Sources</i> , 2014, 269, 7-14.	4.0	173
11	High-speed varifocal imaging with a tunable acoustic gradient index of refraction lens. <i>Optics Letters</i> , 2008, 33, 2146.	1.7	166
12	The Effects of Defects on Localized Plating in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1365-A1373.	1.3	151
13	Ultrastable nanostructured polymer glasses. <i>Nature Materials</i> , 2012, 11, 337-343.	13.3	150
14	A Transparent, Smooth, Thermally Robust, Conductive Polyimide for Flexible Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 7428-7434.	7.8	140
15	Turbulence measurements using a nanoscale thermal anemometry probe. <i>Journal of Fluid Mechanics</i> , 2010, 663, 160-179.	1.4	129
16	A comparison of lead-acid and lithium-based battery behavior and capacity fade in off-grid renewable charging applications. <i>Energy</i> , 2013, 60, 492-500.	4.5	128
17	Ion transport restriction in mechanically strained separator membranes. <i>Journal of Power Sources</i> , 2013, 226, 149-155.	4.0	124
18	A Fluorinated Alkoxyaluminate Electrolyte for Magnesium-Ion Batteries. <i>ACS Energy Letters</i> , 2016, 1, 1227-1232.	8.8	119

#	ARTICLE	IF	CITATIONS
19	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. <i>Energy and Environmental Science</i> , 2019, 12, 3063-3073.	15.6	111
20	Effects of undercharge and internal loss on the rate dependence of battery charge storage efficiency. <i>Journal of Power Sources</i> , 2012, 210, 286-291.	4.0	106
21	Enhanced Outcoupling in Organic Light-Emitting Diodes via a High-Index Contrast Scattering Layer. <i>ACS Photonics</i> , 2015, 2, 1366-1372.	3.2	103
22	Nano-second UV laser processed micro-grooves on Ti6Al4V for biomedical applications. <i>Materials Science and Engineering C</i> , 2009, 29, 5-13.	3.8	94
23	A Model for the Behavior of Battery Separators in Compression at Different Strain/Charge Rates. <i>Journal of the Electrochemical Society</i> , 2014, 161, F3065-F3071.	1.3	89
24	Time-resolved study of polyimide absorption layers for blister-actuated laser-induced forward transfer. <i>Journal of Applied Physics</i> , 2010, 107, 083103.	1.1	88
25	Laser processing of nanocrystalline TiO ₂ films for dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2004, 85, 464-466.	1.5	85
26	Multiscale Bessel beams generated by a tunable acoustic gradient index of refraction lens. <i>Optics Letters</i> , 2006, 31, 3155.	1.7	82
27	Direct-write pulsed laser processed silver nanowire networks for transparent conducting electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 25-28.	1.1	82
28	Impulsively actuated jets from thin liquid films for high-resolution printing applications. <i>Journal of Fluid Mechanics</i> , 2012, 709, 341-370.	1.4	77
29	Li-ion microbatteries generated by a laser direct-write method. <i>Journal of Power Sources</i> , 2004, 126, 193-202.	4.0	76
30	Time-resolved dynamics of laser-induced micro-jets from thin liquid films. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 199-207.	1.0	76
31	Swelling and softening of lithium-ion battery separators in electrolyte solvents. <i>Journal of Power Sources</i> , 2015, 294, 167-172.	4.0	76
32	Solution-processed chalcogenide glass for integrated single-mode mid-infrared waveguides. <i>Optics Express</i> , 2010, 18, 26744.	1.7	75
33	An investigation of the initial attachment and orientation of osteoblast-like cells on laser grooved Ti-6Al-4V surfaces. <i>Materials Science and Engineering C</i> , 2009, 29, 1442-1452.	3.8	74
34	Mid-infrared characterization of solution-processed As ₂ S ₃ chalcogenide glass waveguides. <i>Optics Express</i> , 2010, 18, 15523.	1.7	72
35	Influence of annealing conditions on the optical and structural properties of spin-coated As ₂ S ₃ chalcogenide glass thin films. <i>Optics Express</i> , 2010, 18, 5472.	1.7	71
36	Laser Direct-Write Processing. <i>MRS Bulletin</i> , 2007, 32, 9-15.	1.7	70

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37	A review on solution processing of chalcogenide glasses for optical components. <i>Optical Materials Express</i> , 2013, 3, 1259.	1.6	70
38	Spin-coating of Ge ₂₃ Sb ₇ S ₇₀ chalcogenide glass thin films. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2272-2278.	1.5	67
39	Variable optical elements for fast focus control. <i>Nature Photonics</i> , 2020, 14, 533-542.	15.6	67
40	Parameter-free test of alloy dendrite-growth theory. <i>Physical Review B</i> , 1999, 59, 334-343.	1.1	66
41	Laser direct write printing of sensitive and robust light emitting organic molecules. <i>Applied Physics Letters</i> , 2009, 94, 103306.	1.5	63
42	Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. <i>Optics Letters</i> , 2009, 34, 1684.	1.7	62
43	Laser-induced forward transfer of high-viscosity silver pastes. <i>Applied Surface Science</i> , 2016, 366, 389-396.	3.1	62
44	Synthesis of Platinum Dendrites and Nanowires Via Directed Electrochemical Nanowire Assembly. <i>Nano Letters</i> , 2011, 11, 781-785.	4.5	61
45	Simultaneous imaging of multiple focal planes for three-dimensional microscopy using ultra-high-speed adaptive optics. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	1.4	57
46	Mode tuning of quantum cascade lasers through optical processing of chalcogenide glass claddings. <i>Applied Physics Letters</i> , 2006, 89, 041115.	1.5	56
47	Direct-Write Planar Microultracapacitors by Laser Engineering. <i>Journal of the Electrochemical Society</i> , 2003, 150, A571.	1.3	49
48	Ultrafast z-scanning for high-efficiency laser micro-machining. <i>Light: Science and Applications</i> , 2018, 7, 17181-17181.	7.7	49
49	Improved Efficiency of Hybrid Organic Photovoltaics by Pulsed Laser Sintering of Silver Nanowire Network Transparent Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10556-10562.	4.0	48
50	Strain Derivatives for Practical Charge Rate Characterization of Lithium Ion Electrodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A427-A433.	1.3	48
51	Statistical studies of chaotic wave patterns. <i>Physical Review E</i> , 1995, 51, 1128-1147.	0.8	47
52	Array-based optical nanolithography using optically trapped microlenses. <i>Optics Express</i> , 2009, 17, 3640.	1.7	44
53	Wafer-Scale Nanopatterning and Translation into High-Performance Piezoelectric Nanowires. <i>Nano Letters</i> , 2010, 10, 4595-4599.	4.5	44
54	Finite element analysis of blister formation in laser-induced forward transfer. <i>Journal of Materials Research</i> , 2011, 26, 2438-2449.	1.2	44

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55	Enhanced outcoupling in flexible organic light-emitting diodes on scattering polyimide substrates. <i>Organic Electronics</i> , 2017, 51, 471-476.	1.4	40
56	Impulsively Induced Jets from Viscoelastic Films for High-Resolution Printing. <i>Physical Review Letters</i> , 2018, 120, 074501.	2.9	40
57	Rapid prototyping of micropower sources by laser direct-write. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 783-786.	1.1	39
58	Chalcogenide glass microlenses by inkjet printing. <i>Applied Optics</i> , 2011, 50, 1974.	2.1	39
59	Structural properties of solution processed Ge ₂₃ Sb ₇ S ₇₀ glass materials. <i>Journal of Materials Chemistry</i> , 2012, 22, 17848.	6.7	39
60	Ambient laser direct-write printing of a patterned organo-metallic electroluminescent device. <i>Organic Electronics</i> , 2011, 12, 1152-1158.	1.4	38
61	Mechanics and refractive power optimization of tunable acoustic gradient lenses. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	37
62	Low-loss chalcogenide waveguides on lithium niobate for the mid-infrared. <i>Optics Letters</i> , 2010, 35, 3228.	1.7	37
63	Chalcogenide glass waveguides integrated with quantum cascade lasers for on-chip mid-IR photonic circuits. <i>Optics Letters</i> , 2010, 35, 3324.	1.7	36
64	Tilting of adjacent laser-induced liquid jets. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 185-197.	1.0	36
65	In-vivo study of adhesion and bone growth around implanted laser groove/RGD-functionalized Ti-6Al-4V pins in rabbit femurs. <i>Materials Science and Engineering C</i> , 2011, 31, 826-832.	3.8	33
66	Axisymmetric simulation of viscoelastic filament thinning with the Oldroyd-B model. <i>Journal of Fluid Mechanics</i> , 2018, 851, .	1.4	33
67	Soft Chemical Synthesis of H _x Cr ₂ : An Antiferromagnetic Material with Alternating Amorphous and Crystalline Layers. <i>Journal of the American Chemical Society</i> , 2019, 141, 15634-15640.	6.6	31
68	Effects of Cycling Ranges on Stress and Capacity Fade in Lithium-Ion Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2501-A2507.	1.3	30
69	Irreversible Adsorption Controls Crystallization in Vapor-Deposited Polymer Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 229-234.	2.1	30
70	Crystalline Nature of Colloids in Methylammonium Lead Halide Perovskite Precursor Inks Revealed by Cryo-Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5980-5986.	2.1	30
71	Salt type and concentration affect the viscoelasticity of polyelectrolyte solutions. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	29
72	Size Dependence of Transport Non-Uniformities on Localized Plating in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1147-A1155.	1.3	28

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73	Toward Low-Frequency Mechanical Energy Harvesting Using Energy-Dense Piezoelectrochemical Materials. <i>Advanced Materials</i> , 2015, 27, 7440-7444.	11.1	27
74	Modifications of Ti-6Al-4V surfaces by direct-write laser machining of linear grooves. , 2007, , .		26
75	Inverted-Rib Chalcogenide Waveguides by Solution Process. <i>ACS Photonics</i> , 2014, 1, 153-157.	3.2	26
76	Tuning Sodium Ion Conductivity in the Layered Honeycomb Oxide $\text{Na}_3\text{Sn}_2\text{Sb}_6\text{NaO}_6$. <i>Inorganic Chemistry</i> , 2015, 54, 7985-7991.	1.9	26
77	Effects of Current Density on Defect-Induced Capacity Fade through Localized Plating in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 130519.	1.3	25
78	Unified kinetic model of dopant segregation during vapor-phase growth. <i>Physical Review B</i> , 2005, 72, .	1.1	23
79	Pore formation and removal in solution-processed amorphous arsenic sulfide films. <i>Journal of Non-Crystalline Solids</i> , 2013, 369, 11-16.	1.5	23
80	On the coupling between stress and voltage in lithium-ion pouch cells. <i>Proceedings of SPIE</i> , 2014, , .	0.8	22
81	Nanostructured morphology of polymer films prepared by matrix assisted pulsed laser evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 771-777.	1.1	20
82	Single-step synthesis of silver sulfide nanocrystals in arsenic trisulfide. <i>Optical Materials Express</i> , 2015, 5, 1815.	1.6	20
83	Early-time free-surface flow driven by a deforming boundary. <i>Journal of Fluid Mechanics</i> , 2015, 767, 811-841.	1.4	19
84	Origins of nanostructure in amorphous polymer coatings via matrix assisted pulsed laser evaporation. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	18
85	Figures of Merit for Piezoelectrochemical Energy-Harvesting Systems. <i>Joule</i> , 2020, 4, 1893-1906.	11.7	18
86	Dynamic pulsed-beam shaping using a TAG lens in the near-UV. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 231-234.	1.1	17
87	Nanoscale ablation through optically trapped microspheres. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 41-46.	1.1	17
88	Solution-processing of thick chalcogenide-chalcogenide and metal-chalcogenide structures by spin-coating and multilayer lamination. <i>Optical Materials Express</i> , 2013, 3, 309.	1.6	17
89	Additive Growth and Crystallization of Polymer Films. <i>Macromolecules</i> , 2016, 49, 2860-2867.	2.2	17
90	Nonlinear optical waveguides in $\text{As}_{20}\text{S}_{30}\text{Ag}_{20}$ chalcogenide glass thin films. <i>Optical Materials Express</i> , 2017, 7, 93.	1.6	17

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91	Breaking a dative bond with mechanical forces. Nature Communications, 2021, 12, 5635.	5.8	17
92	Laser direct write of planar alkaline microbatteries. Applied Physics A: Materials Science and Processing, 2004, 79, 417-420.	1.1	16
93	Laser direct-write of embedded electronic components and circuits. , 2005, , .		16
94	Three-dimensional particle tracking via tunable color-encoded multiplexing. Optics Letters, 2016, 41, 863.	1.7	16
95	A fluorinated dialkoxide-based magnesium-ion electrolyte. Journal of Materials Chemistry A, 2017, 5, 7801-7805.	5.2	16
96	Laser Forward Transfer of Electronic and Power Generating Materials. , 2007, , 339-373.		15
97	Optical analysis of time-averaged multiscale Bessel beams generated by a tunable acoustic gradient index of refraction lens. Applied Optics, 2008, 47, 3609.	2.1	15
98	Nanopatterning on rough surfaces using optically trapped microspheres. Applied Physics Letters, 2011, 98, .	1.5	15
99	Silicon nanopillar anodes for lithium-ion batteries using nanoimprint lithography with flexible molds. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	15
100	Controlling the Surface Chemistry of a Hydrogel for Spatially Defined Cell Adhesion. ACS Applied Materials & Interfaces, 2019, 11, 15411-15416.	4.0	15
101	Generalized Model for Photoinduced Surface Structure in Amorphous Thin Films. Physical Review Letters, 2013, 111, 105503.	2.9	14
102	Fabrication of uniformly dispersed nanoparticle-doped chalcogenide glass. Applied Physics Letters, 2014, 105, 261906.	1.5	14
103	Generating Bessel beams with a tunable acoustic gradient index of refraction lens. , 2006, , .		13
104	Exploiting physical vapor deposition for morphological control in semi- α -crystalline polymer films. Polymer Crystallization, 2018, 1, e10021.	0.5	13
105	Sub-wavelength self-organization of chalcogenide glass by direct laser writing. Optical Materials, 2018, 84, 259-262.	1.7	13
106	Using a dual-laser system to create periodic coalescence in laser powder bed fusion. Acta Materialia, 2020, 201, 14-22.	3.8	13
107	Parallel optical trap assisted nanopatterning on rough surfaces. Nanotechnology, 2012, 23, 165304.	1.3	12
108	Concentration dependence of As_2S_3 chalcogenide glass cluster size in amine solution. RSC Advances, 2018, 8, 35819-35823.	1.7	12

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109	Direct-write of sensor devices by a laser forward transfer technique. , 2002, 4637, 361.		11
110	Laser direct-write of metal patterns for interconnects and antennas. , 2003, 4977, 602.		11
111	Anisotropic crystallization in solution processed chalcogenide thin film by linearly polarized laser. Applied Physics Letters, 2017, 110, .	1.5	11
112	Tuning Morphology and Melting Temperature in Polyethylene Films by MAPLE. Macromolecules, 2018, 51, 512-519.	2.2	11
113	Laser-induced forward transfer from healing silver paste films. Applied Physics Letters, 2018, 113, .	1.5	11
114	Depth and surface roughness control on laser micromachined polyimide for direct-write deposition. , 2003, 4979, 217.		10
115	<title>Application of laser direct-write techniques for embedding electronic and micropower components</title>. , 2004, , .		10
116	Photoluminescence of Functionalized Germanium Nanocrystals Embedded in Arsenic Sulfide Glass. ACS Applied Materials & Interfaces, 2017, 9, 18911-18917.	4.0	10
117	Comparison of jets from Newtonian and non-Newtonian fluids induced by blister-actuated laser-induced forward transfer (BA-LIFT). Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	10
118	Morphological and Chemical Mapping of Columnar Lithium Metal. Chemistry of Materials, 2020, 32, 2803-2814.	3.2	10
119	Subthreshold laser jetting via flow-focusing in laser-induced forward transfer. Physical Review Fluids, 2018, 3, .	1.0	10
120	Laser fabrication of GPS conformal antennas. , 2004, 5339, 292.		9
121	Patchy Janus particles with tunable roughness and composition via vapor-assisted deposition of macromolecules. Applied Physics Letters, 2015, 106, .	1.5	9
122	<scp>S</scp> electable light sheet uniformity using tuned axial scanning. Microscopy Research and Technique, 2017, 80, 250-259.	1.2	9
123	Characterization and Model of Piezoelectrochemical Energy Harvesting Using Lithium ion Batteries. Experimental Mechanics, 2018, 58, 605-611.	1.1	9
124	Experimental investigations of liquid-infused surface robustness under turbulent flow. Experiments in Fluids, 2019, 60, 1.	1.1	9
125	Evolution of Polymer Colloid Structure During Precipitation and Phase Separation. Jacs Au, 2021, 1, 936-944.	3.6	9
126	Direct writing of planar ultracapacitors by laser forward transfer processing. , 2002, 4637, 353.		8

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127	Laser-induced forward transfer direct-write of miniature sensor and microbattery systems. , 2003, 4830, 182.		8
128	Structural Effects of Magnesium Dialkoxides as Precursors for Magnesium-Ion Electrolytes. ECS Electrochemistry Letters, 2015, 4, A49-A52.	1.9	8
129	Third-order optical nonlinearities in bulk and fs-laser inscribed waveguides in strengthened alkali aluminosilicate glass. Laser Physics, 2018, 28, 015401.	0.6	8
130	Deformation during Electrosorption and Insertion-Type Charge Storage: Origins, Characterization, and Design of Materials for High Power. ACS Energy Letters, 2020, 5, 3548-3559.	8.8	8
131	Transport and Stability of Laser-Deposited Amorphous Polymer Nanoglobules. ACS Macro Letters, 2014, 3, 1046-1050.	2.3	7
132	Optimization of ultrafast axial scanning parameters for efficient pulsed laser micro-machining. Journal of Materials Processing Technology, 2021, 288, 116850.	3.1	7
133	Ultra-high-speed variable focus optics for novel applications in advanced imaging. , 2018, , .		7
134	Deposition-on-contact regime and the effect of donor-acceptor distance during laser-induced forward transfer of viscoelastic liquids. Optical Materials Express, 2019, 9, 2738.	1.6	7
135	Reduction of Transfer Threshold Energy for Laser-Induced Jetting of Liquids using Faraday Waves. Physical Review Applied, 2019, 11, .	1.5	6
136	Light Emission from Self-Assembled and Laser-Crystallized Chalcogenide Metasurface. Advanced Optical Materials, 2020, 8, 1901236.	3.6	6
137	Graphene-based catalyst for CO ₂ reduction: The critical role of solvents in materials design. Journal of Catalysis, 2021, 404, 512-517.	3.1	6
138	Generating Sub-Micron Features On Rough Surfaces Using Optical Trap Assisted Nanopatterning. , 2010, , .		5
139	LiCoO ₂ texturing by laser induced forward transfer for printed microbatteries. , 2011, , .		5
140	Microbead dynamics in optical trap assisted nanopatterning. Applied Physics A: Materials Science and Processing, 2013, 112, 23-28.	1.1	5
141	Interfacial Engineering to Tailor the Properties of Multifunctional Ultralight Weight hBN-Polymer Composite Aerogels. ACS Applied Materials & Interfaces, 2021, 13, 13620-13628.	4.0	5
142	Effects of disorder on two-photon absorption in amorphous semiconductors. Optics Letters, 2020, 45, 3228.	1.7	5
143	Dye-sensitized solar cells using laser processing techniques. , 2004, , .		4
144	Improving halide-containing magnesium-ion electrolyte performance via sterically hindered alkoxide ligands. Journal of Power Sources, 2017, 362, 308-314.	4.0	4

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145	Scalable solution processing of amorphous and crystalline chalcogenide films. Trends in Chemistry, 2021, 3, 535-546.	4.4	4
146	Multi-focal laser processing in transparent materials using an ultrafast tunable acoustic lens. Optics Letters, 2022, 47, 1634.	1.7	4
147	Complex beam sculpting with tunable acoustic gradient index lenses. , 2007, , .		3
148	Laser direct write near-field nanopatterning using optically trapped microspheres. , 2008, , .		3
149	Experimental and Numerical Study of the Laser-Induced Printing of Liquid Materials. , 2011, , .		3
150	Multiphoton polymerization using optical trap assisted nanopatterning. Applied Physics Letters, 2013, 102, 243108.	1.5	3
151	Non-spherical particles for optical trap assisted nanopatterning. Nanotechnology, 2013, 24, 375303.	1.3	3
152	Flexible Electronics: A Transparent, Smooth, Thermally Robust, Conductive Polyimide for Flexible Electronics (Adv. Funct. Mater. 48/2015). Advanced Functional Materials, 2015, 25, 7547-7547.	7.8	3
153	Varying Power Generation in Ultra Low-Frequency Mechanical Energy Harvesting of Piezoelectrochemical Materials. Journal of the Electrochemical Society, 2019, 166, A1704-A1708.	1.3	3
154	Understanding solution processing of inorganic materials using cryo-EM. Optical Materials Express, 2020, 10, 119.	1.6	3
155	Laser-micromachined defect arrays for DC potential drop fatigue studies. , 2004, , .		2
156	Generating Nanostructures with Multiphoton Absorption Polymerization using Optical Trap Assisted Nanopatterning. Physics Procedia, 2012, 39, 669-673.	1.2	2
157	TAG Lens: Revolutionizing Optical Microscopy With Ultra-High Speed Variable Focus. Microscopy and Microanalysis, 2014, 20, 1092-1093.	0.2	2
158	Perforation Does Not Compromise Patterned Two-Dimensional Substrates for Cell Attachment and Aligned Spreading. ACS Biomaterials Science and Engineering, 2017, 3, 3123-3127.	2.6	2
159	Simulation of impulsively induced viscoelastic jets using the Oldroyd-B model. Journal of Fluid Mechanics, 2021, 911, .	1.4	2
160	Incident Beam Shape Effects on Thick-Film Laser Induced Forward Transfer. , 2010, , .		2
161	Roadblocks faced by graphene in replacing graphite in large-scale applications. Oxford Open Materials Science, 2020, 1, .	0.5	2
162	Epitaxially crystallized polyethylene exhibiting $\langle \text{scp} \rangle$ near-equilibrium $\langle \text{scp} \rangle$ melting temperatures*. Polymer Engineering and Science, 2022, 62, 841-847.	1.5	2

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163	<title>Manufacture of mesoscale energy storage systems by laser-direct write</title> . , 2004, , .		1
164	RAPIDLY TUNABLE ACOUSTIC GRADIENT INDEX LENSES FOR PULSED IMAGING AND LASER PROCESSING. , 2009, , .		1
165	Subtractive Laser Processing Using Extended Depth of Field Focusing. , 2020, , 1-23.		1
166	The Effect of Mechanical Frequency on Piezoelectrochemical Energy Harvesters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1130-1136.	1.7	1
167	Parametric study of multi-focal laser processing using an ultrafast tunable acoustic lens. , 2022, , .		1
168	Quantum cascade lasers tuned by amorphous As ₂ S ₃ claddings. , 2005, , .		0
169	Multiscale Bessel Beams from Tunable Acoustic Gradient Index of Refraction Lenses. , 2007, , .		0
170	Solvent-casting of Photo-refractive Chalcogenide Glasses and their Application in Quantum Cascade Laser Tuning. , 2007, , .		0
171	Multiscale Bessel beams from tunable acoustic gradient index of refraction lenses. , 2007, , .		0
172	Solvent-casting deposition of chalcogenide glass for photonic applications. , 2008, , .		0
173	Rapid beam shaping using tunable acoustic gradient index of refraction lenses. , 2008, , .		0
174	Optical trap assisted nanoscale laser direct-write patterning. , 2008, , .		0
175	Optical Trap Assisted Nanopatterning for Structured Surfaces. , 2010, , .		0
176	Stability of Chalcogenide Glass Solutions for Photonic Applications. , 2011, , .		0
177	Study of the transient behavior of a tunable acoustic gradient index lens for laser processing. , 2011, , .		0
178	Speed Investigations toward an Industrial Application of Optical Trap Assisted Nanopatterning. , 2011, , .		0
179	Laser Direct-write Nanopatterning by Near-field Multiphoton Polymerization Using Optically Trapped Microspheres. , 2012, , .		0
180	Measuring the Sphere-Surface Interaction in Optical Trap Assisted Nanopatterning. , 2012, , .		0

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181	Transport Properties of Strained Lithium-Ion Battery Separators. ECS Meeting Abstracts, 2012, , .	0.0	0
182	Elucidating the mechanism of nanocone and nanohole formation on Si by optical trap assisted nanopatterning. , 2015, , .		0
183	Ultra-high speed variable focus lenses for simultaneous multiplane and high depth of field imaging. , 2015, , .		0
184	Viscoelastic polymer jets induced by blister-actuated laser-induced forward transfer (BA-LIFT). , 2017, , .		0
185	Effect of Laser Transfer Mechanism on Damage to Organic Semiconducting Molecules During Laser Direct-Write Printing. , 2009, , .		0
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