

# 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	The Effect of Mechanical Frequency on Piezoelectrochemical Energy Harvesters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1130-1136.	1.7	1
2	Epitaxially crystallized polyethylene exhibiting $\langle \text{near-}\epsilon \text{ equilibrium} \rangle$ melting temperatures*. Polymer Engineering and Science, 2022, 62, 841-847.	1.5	2
3	Illuminating the Role of Classmates in Reducing the Participation Gender Gap in Lecture-Based Engineering Classes. IEEE Transactions on Education, 2022, , 1-8.	2.0	0
4	Parametric study of multi-focal laser processing using an ultrafast tunable acoustic lens. , 2022, , .		1
5	Multi-focal laser processing in transparent materials using an ultrafast tunable acoustic lens. Optics Letters, 2022, 47, 1634.	1.7	4
6	Optimization of ultrafast axial scanning parameters for efficient pulsed laser micro-machining. Journal of Materials Processing Technology, 2021, 288, 116850.	3.1	7
7	Simulation of impulsively induced viscoelastic jets using the Oldroyd-B model. Journal of Fluid Mechanics, 2021, 911, .	1.4	2
8	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
9	Evolution of Polymer Colloid Structure During Precipitation and Phase Separation. JACS Au, 2021, 1, 936-944.	3.6	9
10	Scalable solution processing of amorphous and crystalline chalcogenide films. Trends in Chemistry, 2021, 3, 535-546.	4.4	4
11	Breaking a dative bond with mechanical forces. Nature Communications, 2021, 12, 5635.	5.8	17
12	Subtractive Laser Processing Using Extended Depth of Field Focusing. , 2021, , 1165-1187.		0
13	Graphene-based catalyst for CO <sub>2</sub> reduction: The critical role of solvents in materials design. Journal of Catalysis, 2021, 404, 512-517.	3.1	6
14	Figures of Merit for Piezoelectrochemical Energy-Harvesting Systems. Joule, 2020, 4, 1893-1906.	11.7	18
15	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
16	Using a dual-laser system to create periodic coalescence in laser powder bed fusion. Acta Materialia, 2020, 201, 14-22.	3.8	13
17	Crystalline Nature of Colloids in Methylammonium Lead Halide Perovskite Precursor Inks Revealed by Cryo-Electron Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 5980-5986.	2.1	30
18	Variable optical elements for fast focus control. Nature Photonics, 2020, 14, 533-542.	15.6	67

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19	Morphological and Chemical Mapping of Columnar Lithium Metal. <i>Chemistry of Materials</i> , 2020, 32, 2803-2814.	3.2	10
20	Light Emission from Self-Assembled and Laser-Crystallized Chalcogenide Metasurface. <i>Advanced Optical Materials</i> , 2020, 8, 1901236.	3.6	6
21	Subtractive Laser Processing Using Extended Depth of Field Focusing. , 2020, , 1-23.		1
22	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
23	Effects of disorder on two-photon absorption in amorphous semiconductors. <i>Optics Letters</i> , 2020, 45, 3228.	1.7	5
24	Understanding solution processing of inorganic materials using cryo-EM. <i>Optical Materials Express</i> , 2020, 10, 119.	1.6	3
25	Roadblocks faced by graphene in replacing graphite in large-scale applications. <i>Oxford Open Materials Science</i> , 2020, 1, .	0.5	2
26	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
27	Soft Chemical Synthesis of $\text{HCrS}_2$ : An Antiferromagnetic Material with Alternating Amorphous and Crystalline Layers. <i>Journal of the American Chemical Society</i> , 2019, 141, 15634-15640.	6.6	31
28	Varying Power Generation in Ultra Low-Frequency Mechanical Energy Harvesting of Piezoelectrochemical Materials. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1704-A1708.	1.3	3
29	Experimental investigations of liquid-infused surface robustness under turbulent flow. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	9
30	Reduction of Transfer Threshold Energy for Laser-Induced Jetting of Liquids using Faraday Waves. <i>Physical Review Applied</i> , 2019, 11, .	1.5	6
31	Controlling the Surface Chemistry of a Hydrogel for Spatially Defined Cell Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15411-15416.	4.0	15
32	Deposition-on-contact regime and the effect of donor-acceptor distance during laser-induced forward transfer of viscoelastic liquids. <i>Optical Materials Express</i> , 2019, 9, 2738.	1.6	7
33	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
34	Impulsively Induced Jets from Viscoelastic Films for High-Resolution Printing. <i>Physical Review Letters</i> , 2018, 120, 074501.	2.9	40
35	Third-order optical nonlinearities in bulk and fs-laser inscribed waveguides in strengthened alkali aluminosilicate glass. <i>Laser Physics</i> , 2018, 28, 015401.	0.6	8
36	Tuning Morphology and Melting Temperature in Polyethylene Films by MAPLE. <i>Macromolecules</i> , 2018, 51, 512-519.	2.2	11

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37	Ultrafast z-scanning for high-efficiency laser micro-machining. Light: Science and Applications, 2018, 7, 17181-17181.	7.7	49
38	Characterization and Model of Piezoelectrochemical Energy Harvesting Using Lithium ion Batteries. Experimental Mechanics, 2018, 58, 605-611.	1.1	9
39	Concentration dependence of As <sub>2</sub> S <sub>3</sub> chalcogenide glass cluster size in amine solution. RSC Advances, 2018, 8, 35819-35823.	1.7	12
40	Laser-induced forward transfer from healing silver paste films. Applied Physics Letters, 2018, 113, .	1.5	11
41	Exploiting physical vapor deposition for morphological control in semi-crystalline polymer films. Polymer Crystallization, 2018, 1, e10021.	0.5	13
42	Salt type and concentration affect the viscoelasticity of polyelectrolyte solutions. Applied Physics Letters, 2018, 112, .	1.5	29
43	Sub-wavelength self-organization of chalcogenide glass by direct laser writing. Optical Materials, 2018, 84, 259-262.	1.7	13
44	Axisymmetric simulation of viscoelastic filament thinning with the Oldroyd-B model. Journal of Fluid Mechanics, 2018, 851, .	1.4	33
45	Subthreshold laser jetting via flow-focusing in laser-induced forward transfer. Physical Review Fluids, 2018, 3, .	1.0	10
46	Ultra-high-speed variable focus optics for novel applications in advanced imaging. , 2018, , .		7
47	Anisotropic crystallization in solution processed chalcogenide thin film by linearly polarized laser. Applied Physics Letters, 2017, 110, .	1.5	11
48	A fluorinated dialkoxide-based magnesium-ion electrolyte. Journal of Materials Chemistry A, 2017, 5, 7801-7805.	5.2	16
49	Photoluminescence of Functionalized Germanium Nanocrystals Embedded in Arsenic Sulfide Glass. ACS Applied Materials & Interfaces, 2017, 9, 18911-18917.	4.0	10
50	Irreversible Adsorption Controls Crystallization in Vapor-Deposited Polymer Thin Films. Journal of Physical Chemistry Letters, 2017, 8, 229-234.	2.1	30
51	Enhanced outcoupling in flexible organic light-emitting diodes on scattering polyimide substrates. Organic Electronics, 2017, 51, 471-476.	1.4	40
52	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
53	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
54	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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55	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
56	<scp>S</scp> electable light sheet uniformity using tuned axial scanning. <i>Microscopy Research and Technique</i> , 2017, 80, 250-259.	1.2	9
57	Viscoelastic polymer jets induced by blister-actuated laser-induced forward transfer (BA-LIFT). , 2017, , .		0
58	Nonlinear optical waveguides in As <sub>2</sub> S <sub>3</sub> -Ag <sub>2</sub> S chalcogenide glass thin films. <i>Optical Materials Express</i> , 2017, 7, 93.	1.6	17
59	Outcoupling Enhancement in White Organic Light-Emitting Diodes on Scattering Polyimide Substrates. , 2017, , .		0
60	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
61	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
62	A Fluorinated Alkoxyaluminate Electrolyte for Magnesium-Ion Batteries. <i>ACS Energy Letters</i> , 2016, 1, 1227-1232.	8.8	119
63	Laser-induced forward transfer of high-viscosity silver pastes. <i>Applied Surface Science</i> , 2016, 366, 389-396.	3.1	62
64	Additive Growth and Crystallization of Polymer Films. <i>Macromolecules</i> , 2016, 49, 2860-2867.	2.2	17
65	Three-dimensional particle tracking via tunable color-encoded multiplexing. <i>Optics Letters</i> , 2016, 41, 863.	1.7	16
66	ITO-free Flexible Organic Light Emitting Diodes with Enhanced Light Outcoupling. , 2016, , .		0
67	Laser ablation of germanium in arsenic sulfide solution. , 2016, , .		0
68	Early-time free-surface flow driven by a deforming boundary. <i>Journal of Fluid Mechanics</i> , 2015, 767, 811-841.	1.4	19
69	Toward Low-Frequency Mechanical Energy Harvesting Using Energy-Dense Piezoelectrochemical Materials. <i>Advanced Materials</i> , 2015, 27, 7440-7444.	11.1	27
70	A Transparent, Smooth, Thermally Robust, Conductive Polyimide for Flexible Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 7428-7434.	7.8	140
71	Flexible Electronics: A Transparent, Smooth, Thermally Robust, Conductive Polyimide for Flexible Electronics ( <i>Adv. Funct. Mater.</i> 48/2015). <i>Advanced Functional Materials</i> , 2015, 25, 7547-7547.	7.8	3
72	Elucidating the mechanism of nanocone and nanohole formation on Si by optical trap assisted nanopatterning. , 2015, , .		0

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73	The Effects of Defects on Localized Plating in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1365-A1373.	1.3	151
74	Tuning Sodium Ion Conductivity in the Layered Honeycomb Oxide $\text{Na}_3\text{Sn}_2\text{SbNaO}_6$ . Inorganic Chemistry, 2015, 54, 7985-7991.	1.9	26
75	Structural Effects of Magnesium Dialkoxides as Precursors for Magnesium-Ion Electrolytes. ECS Electrochemistry Letters, 2015, 4, A49-A52.	1.9	8
76	Swelling and softening of lithium-ion battery separators in electrolyte solvents. Journal of Power Sources, 2015, 294, 167-172.	4.0	76
77	Improved Efficiency of Hybrid Organic Photovoltaics by Pulsed Laser Sintering of Silver Nanowire Network Transparent Electrode. ACS Applied Materials & Interfaces, 2015, 7, 10556-10562.	4.0	48
78	Single-step synthesis of silver sulfide nanocrystals in arsenic trisulfide. Optical Materials Express, 2015, 5, 1815.	1.6	20
79	Patchy Janus particles with tunable roughness and composition via vapor-assisted deposition of macromolecules. Applied Physics Letters, 2015, 106, .	1.5	9
80	Ultra-high speed variable focus lenses for simultaneous multiplane and high depth of field imaging. , 2015, , .		0
81	Enhanced Outcoupling in Organic Light-Emitting Diodes via a High-Index Contrast Scattering Layer. ACS Photonics, 2015, 2, 1366-1372.	3.2	103
82	Tilting of adjacent laser-induced liquid jets. Microfluidics and Nanofluidics, 2015, 18, 185-197.	1.0	36
83	Novel machine vision applications of ultra-high speed variable focus TAG lenses. , 2015, , .		0
84	Solution processed chalcogenide photonic crystals. , 2015, , .		0
85	Mechanical Properties of a Battery Separator under Compression and Tension. Journal of the Electrochemical Society, 2014, 161, F3117-F3122.	1.3	175
86	Fabrication of uniformly dispersed nanoparticle-doped chalcogenide glass. Applied Physics Letters, 2014, 105, 261906.	1.5	14
87	On the coupling between stress and voltage in lithium-ion pouch cells. Proceedings of SPIE, 2014, , .	0.8	22
88	Transport and Stability of Laser-Deposited Amorphous Polymer Nanoglobules. ACS Macro Letters, 2014, 3, 1046-1050.	2.3	7
89	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
90	A Model for the Behavior of Battery Separators in Compression at Different Strain/Charge Rates. Journal of the Electrochemical Society, 2014, 161, F3065-F3071.	1.3	89

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91	State of health and charge measurements in lithium-ion batteries using mechanical stress. Journal of Power Sources, 2014, 269, 7-14.	4.0	173
92	Inverted-Rib Chalcogenide Waveguides by Solution Process. ACS Photonics, 2014, 1, 153-157.	3.2	26
93	Stress evolution and capacity fade in constrained lithium-ion pouch cells. Journal of Power Sources, 2014, 245, 745-751.	4.0	393
94	TAG Lens: Revolutionizing Optical Microscopy With Ultra-High Speed Variable Focus. Microscopy and Microanalysis, 2014, 20, 1092-1093.	0.2	2
95	Nanostructured morphology of polymer films prepared by matrix assisted pulsed laser evaporation. Applied Physics A: Materials Science and Processing, 2013, 110, 771-777.	1.1	20
96	Generalized Model for Photoinduced Surface Structure in Amorphous Thin Films. Physical Review Letters, 2013, 111, 105503.	2.9	14
97	Ion transport restriction in mechanically strained separator membranes. Journal of Power Sources, 2013, 226, 149-155.	4.0	124
98	A comparison of lead-acid and lithium-based battery behavior and capacity fade in off-grid renewable charging applications. Energy, 2013, 60, 492-500.	4.5	128
99	Pore formation and removal in solution-processed amorphous arsenic sulfide films. Journal of Non-Crystalline Solids, 2013, 369, 11-16.	1.5	23
100	Microbead dynamics in optical trap assisted nanopatterning. Applied Physics A: Materials Science and Processing, 2013, 112, 23-28.	1.1	5
101	Multiphoton polymerization using optical trap assisted nanopatterning. Applied Physics Letters, 2013, 102, 243108.	1.5	3
102	Solution-processing of thick chalcogenide-chalcogenide and metal-chalcogenide structures by spin-coating and multilayer lamination. Optical Materials Express, 2013, 3, 309.	1.6	17
103	A review on solution processing of chalcogenide glasses for optical components. Optical Materials Express, 2013, 3, 1259.	1.6	70
104	Non-spherical particles for optical trap assisted nanopatterning. Nanotechnology, 2013, 24, 375303.	1.3	3
105	Origins of nanostructure in amorphous polymer coatings via matrix assisted pulsed laser evaporation. Applied Physics Letters, 2013, 103, .	1.5	18
106	Free z-focus control laser processing via ultra-high speed axial scanning. , 2013, , .		0
107	Simultaneous imaging of multiple focal planes for three-dimensional microscopy using ultra-high-speed adaptive optics. Journal of Biomedical Optics, 2012, 17, 1.	1.4	57
108	Parallel optical trap assisted nanopatterning on rough surfaces. Nanotechnology, 2012, 23, 165304.	1.3	12

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109	Laser Direct-write Nanopatterning by Near-field Multiphoton Polymerization Using Optically Trapped Microspheres. , 2012, , .		0
110	Measuring the Sphere-Surface Interaction in Optical Trap Assisted Nanopatterning. , 2012, , .		0
111	Impulsively actuated jets from thin liquid films for high-resolution printing applications. Journal of Fluid Mechanics, 2012, 709, 341-370.	1.4	77
112	Structural properties of solution processed Ge <sub>23</sub> Sb <sub>75</sub> Se <sub>70</sub> glass materials. Journal of Materials Chemistry, 2012, 22, 17848.	6.7	39
113	Generating Nanostructures with Multiphoton Absorption Polymerization using Optical Trap Assisted Nanopatterning. Physics Procedia, 2012, 39, 669-673.	1.2	2
114	Transport Properties of Strained Lithium-Ion Battery Separators. ECS Meeting Abstracts, 2012, , .	0.0	0
115	Ultrastable nanostructured polymer glasses. Nature Materials, 2012, 11, 337-343.	13.3	150
116	Bessel and annular beams for materials processing. Laser and Photonics Reviews, 2012, 6, 607-621.	4.4	498
117	Direct-write pulsed laser processed silver nanowire networks for transparent conducting electrodes. Applied Physics A: Materials Science and Processing, 2012, 108, 25-28.	1.1	82
118	Effects of undercharge and internal loss on the rate dependence of battery charge storage efficiency. Journal of Power Sources, 2012, 210, 286-291.	4.0	106
119	Simultaneous acquisition of multiple focal planes for real time 3-D microscopy using ultra-high speed adaptive optics. , 2012, , .		0
120	Synthesis of Platinum Dendrites and Nanowires Via Directed Electrochemical Nanowire Assembly. Nano Letters, 2011, 11, 781-785.	4.5	61
121	Chalcogenide glass microlenses by inkjet printing. Applied Optics, 2011, 50, 1974.	2.1	39
122	Stability of Chalcogenide Glass Solutions for Photonic Applications. , 2011, , .		0
123	Study of the transient behavior of a tunable acoustic gradient index lens for laser processing. , 2011, , .		0
124	Experimental and Numerical Study of the Laser-Induced Printing of Liquid Materials. , 2011, , .		3
125	Speed Investigations toward an Industrial Application of Optical Trap Assisted Nanopatterning. , 2011, , .		0
126	The role of mechanically induced separator creep in lithium-ion battery capacity fade. Journal of Power Sources, 2011, 196, 8147-8153.	4.0	184



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127	Time-resolved dynamics of laser-induced micro-jets from thin liquid films. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 199-207.	1.0	76
128	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
129	Ambient laser direct-write printing of a patterned organo-metallic electroluminescent device. <i>Organic Electronics</i> , 2011, 12, 1152-1158.	1.4	38
130	Nanopatterning on rough surfaces using optically trapped microspheres. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	15
131	Finite element analysis of blister formation in laser-induced forward transfer. <i>Journal of Materials Research</i> , 2011, 26, 2438-2449.	1.2	44
132	LiCoO <sub>2</sub> texturing by laser induced forward transfer for printed microbatteries. , 2011, , .		5
133	Simultaneous recording of multiple focal planes for 3-D microscopy using ultra-high speed adaptive optics. , 2011, , .		0
134	Sub-Micron Patterning of Rough Surfaces Using Optical Trap Assisted Nanopatterning. , 2011, , .		0
135	Solution-processed 3D Chalcogenide Glass Waveguides. , 2011, , .		0
136	Turbulence measurements using a nanoscale thermal anemometry probe. <i>Journal of Fluid Mechanics</i> , 2010, 663, 160-179.	1.4	129
137	Optical Trap Assisted Nanopatterning for Structured Surfaces. , 2010, , .		0
138	Nanoscale ablation through optically trapped microspheres. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 41-46.	1.1	17
139	Generating Sub-Micron Features On Rough Surfaces Using Optical Trap Assisted Nanopatterning. , 2010, , .		5
140	Fundamentals of Laser-Material Interaction and Application to Multiscale Surface Modification. Springer Series in Materials Science, 2010, , 91-120.	0.4	173
141	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
142	Wafer-Scale Nanopatterning and Translation into High-Performance Piezoelectric Nanowires. <i>Nano Letters</i> , 2010, 10, 4595-4599.	4.5	44
143	Influence of annealing conditions on the optical and structural properties of spin-coated As <sub>2</sub> S <sub>3</sub> chalcogenide glass thin films. <i>Optics Express</i> , 2010, 18, 5472.	1.7	71
144	Mid-infrared characterization of solution-processed As <sub>2</sub> S <sub>3</sub> chalcogenide glass waveguides. <i>Optics Express</i> , 2010, 18, 15523.	1.7	72

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145	Solution-processed chalcogenide glass for integrated single-mode mid-infrared waveguides. Optics Express, 2010, 18, 26744.	1.7	75
146	Low-loss chalcogenide waveguides on lithium niobate for the mid-infrared. Optics Letters, 2010, 35, 3228.	1.7	37
147	Chalcogenide glass waveguides integrated with quantum cascade lasers for on-chip mid-IR photonic circuits. Optics Letters, 2010, 35, 3324.	1.7	36
148	Incident Beam Shape Effects on Thick-Film Laser Induced Forward Transfer. , 2010, , .		2
149	Time-Resolved Study of Polyimide Film Absorbing Layers for Laser-Induced Forward Transfer. , 2010, , .		0
150	LIQUID LENS APPROACHES FOR SIMULTANEOUS STANDARD AND EXTENDED DEPTH OF FIELD IMAGING. , 2010, , .		0
151	RAPIDLY TUNABLE ACOUSTIC GRADIENT INDEX LENSES FOR PULSED IMAGING AND LASER PROCESSING. , 2009, , .		1
152	Laser direct write printing of sensitive and robust light emitting organic molecules. Applied Physics Letters, 2009, 94, 103306.	1.5	63
153	Nano-second UV laser processed micro-grooves on Ti6Al4V for biomedical applications. Materials Science and Engineering C, 2009, 29, 5-13.	3.8	94
154	An investigation of the initial attachment and orientation of osteoblast-like cells on laser grooved Ti-6Al-4V surfaces. Materials Science and Engineering C, 2009, 29, 1442-1452.	3.8	74
155	Spin-coating of Ge <sub>23</sub> Sb <sub>7</sub> S <sub>70</sub> chalcogenide glass thin films. Journal of Non-Crystalline Solids, 2009, 355, 2272-2278.	1.5	67
156	Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. Optics Letters, 2009, 34, 1684.	1.7	62
157	Array-based optical nanolithography using optically trapped microlenses. Optics Express, 2009, 17, 3640.	1.7	44
158	Effect of Laser Transfer Mechanism on Damage to Organic Semiconducting Molecules During Laser Direct-Write Printing. , 2009, , .		0
159	Solution-cast As <sub>2</sub> S <sub>3</sub> Raised Strip Waveguides for Integrated Mid-IR Optics. , 2009, , .		0
160	Spin-coating of Ge <sub>23</sub> Sb <sub>7</sub> S <sub>70</sub> Chalcogenide Glass Thin Films. , 2009, , .		0
161	Parallel Direct-Write Nanolithography Using Arrays of Optically Trapped Microlenses. , 2009, , .		0
162	Dynamic pulsed-beam shaping using a TAG lens in the near-UV. Applied Physics A: Materials Science and Processing, 2008, 93, 231-234.	1.1	17

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163	Subwavelength direct-write nanopatterning using optically trapped microspheres. Nature Nanotechnology, 2008, 3, 413-417.	15.6	328
164	High-speed varifocal imaging with a tunable acoustic gradient index of refraction lens. Optics Letters, 2008, 33, 2146.	1.7	166
165	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
166	Solvent-casting deposition of chalcogenide glass for photonic applications. , 2008, , .		0
167	Rapid beam shaping using tunable acoustic gradient index of refraction lenses. , 2008, , .		0
168	Optical trap assisted nanoscale laser direct-write patterning. , 2008, , .		0
169	Laser direct write near-field nanopatterning using optically trapped microspheres. , 2008, , .		3
170	Multiscale Bessel Beams from Tunable Acoustic Gradient Index of Refraction Lenses. , 2007, , .		0
171	Laser Direct-Write Techniques for Printing of Complex Materials. MRS Bulletin, 2007, 32, 23-31.	1.7	325
172	Laser Direct-Write Processing. MRS Bulletin, 2007, 32, 9-15.	1.7	70
173	Solvent-casting of Photo-refractive Chalcogenide Glasses and their Application in Quantum Cascade Laser Tuning. , 2007, , .		0
174	Modifications of Ti-6Al-4V surfaces by direct-write laser machining of linear grooves. , 2007, , .		26
175	Complex beam sculpting with tunable acoustic gradient index lenses. , 2007, , .		3
176	Mechanics and refractive power optimization of tunable acoustic gradient lenses. Journal of Applied Physics, 2007, 102, .	1.1	37
177	Multiscale Bessel beams from tunable acoustic gradient index of refraction lenses. , 2007, , .		0
178	Thick film laser induced forward transfer for deposition of thermally and mechanically sensitive materials. Applied Physics Letters, 2007, 91, .	1.5	183
179	Laser Forward Transfer of Electronic and Power Generating Materials. , 2007, , 339-373.		15
180	Multiscale Bessel beams generated by a tunable acoustic gradient index of refraction lens. Optics Letters, 2006, 31, 3155.	1.7	82

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181	Generating Bessel beams with a tunable acoustic gradient index of refraction lens. , 2006, , .		13
182	Mode tuning of quantum cascade lasers through optical processing of chalcogenide glass claddings. Applied Physics Letters, 2006, 89, 041115.	1.5	56
183	Laser direct-write of embedded electronic components and circuits. , 2005, , .		16
184	Quantum cascade lasers tuned by amorphous As <sub>2</sub> S <sub>3</sub> claddings. , 2005, , .		0
185	Unified kinetic model of dopant segregation during vapor-phase growth. Physical Review B, 2005, 72, .	1.1	23
186	Dye-sensitized solar cells using laser processing techniques. , 2004, , .		4
187	Rapid prototyping of micropower sources by laser direct-write. Applied Physics A: Materials Science and Processing, 2004, 79, 783-786.	1.1	39
188	Laser direct write of planar alkaline microbatteries. Applied Physics A: Materials Science and Processing, 2004, 79, 417-420.	1.1	16
189	Li-ion microbatteries generated by a laser direct-write method. Journal of Power Sources, 2004, 126, 193-202.	4.0	76
190	Laser processing of nanocrystalline TiO <sub>2</sub> films for dye-sensitized solar cells. Applied Physics Letters, 2004, 85, 464-466.	1.5	85
191	Laser-micromachined defect arrays for DC potential drop fatigue studies. , 2004, , .		2
192	<title>Application of laser direct-write techniques for embedding electronic and micropower components</title>. , 2004, , .		10
193	<title>Manufacture of mesoscale energy storage systems by laser-direct write</title>. , 2004, , .		1
194	Laser fabrication of GPS conformal antennas. , 2004, 5339, 292.		9
195	Laser-induced forward transfer direct-write of miniature sensor and microbattery systems. , 2003, 4830, 182.		8
196	Depth and surface roughness control on laser micromachined polyimide for direct-write deposition. , 2003, 4979, 217.		10
197	Direct-Write Planar Microultracapacitors by Laser Engineering. Journal of the Electrochemical Society, 2003, 150, A571.	1.3	49
198	Laser direct-write of metal patterns for interconnects and antennas. , 2003, 4977, 602.		11

#	ARTICLE	IF	CITATIONS
199	Direct writing of planar ultracapacitors by laser forward transfer processing. , 2002, 4637, 353.		8
200	Direct-write of sensor devices by a laser forward transfer technique. , 2002, 4637, 361.		11
201	Parameter-free test of alloy dendrite-growth theory. Physical Review B, 1999, 59, 334-343.	1.1	66
202	Statistical studies of chaotic wave patterns. Physical Review E, 1995, 51, 1128-1147.	0.8	47