

Jennifer A Lewis

List of Publications by Year in Descending Order

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

240
papers

34,244
citations

88
h-index

184
g-index

250
ext. papers

39,165
ext. citations

12.7
avg, IF

7.86
L-index

#	Paper	IF	Citations
240	Photoswitchable Covalent Adaptive Networks Based on Thiol-Ene Elastomers.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
239	Towards enduring autonomous robots via embodied energy.. <i>Nature</i> , 2022 , 602, 393-402	50.4	13
238	Orthogonally induced differentiation of stem cells for the programmatic patterning of vascularized organoids and bioprinted tissues.. <i>Nature Biomedical Engineering</i> , 2022 ,	19	5
237	Biomimetic and Biologically Compliant Soft Architectures via 3D and 4D Assembly Methods: A Perspective.. <i>Advanced Materials</i> , 2022 , e2108391	24	5
236	Programming Cellular Alignment in Engineered Cardiac Tissue via Bioprinting Anisotropic Organ Building Blocks.. <i>Advanced Materials</i> , 2022 , e2200217	24	2
235	Biomanufacturing human tissues via organ building blocks.. <i>Cell Stem Cell</i> , 2022 , 29, 667-677	18	2
234	Printing Reconfigurable Bundles of Dielectric Elastomer Fibers. <i>Advanced Functional Materials</i> , 2021 , 31, 2010643	15.6	19
233	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021 , 592, 195-204	50.4	21
232	Innervated, Self-Sensing Liquid Crystal Elastomer Actuators with Closed Loop Control. <i>Advanced Materials</i> , 2021 , 33, e2101814	24	39
231	A micromechanical-based model of stimulus responsive liquid crystal elastomers. <i>International Journal of Solids and Structures</i> , 2021 , 219-220, 92-105	3.1	10
230	Hierarchically Porous Ceramics via Direct Writing of Binary Colloidal Gel Foams. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8976-8984	9.5	9
229	Effect of luminal flow on doming of mpkCCD cells in a 3D perfusable kidney cortical collecting duct model. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 319, C136-C147	5.4	3
228	3D Printing of Interdigitated Dielectric Elastomer Actuators. <i>Advanced Functional Materials</i> , 2020 , 30, 1907375	15.6	70
227	3D Printable and Reconfigurable Liquid Crystal Elastomers with Light-Induced Shape Memory via Dynamic Bond Exchange. <i>Advanced Materials</i> , 2020 , 32, e1905682	24	107
226	Untethered soft robotic matter with passive control of shape morphing and propulsion. <i>Science Robotics</i> , 2019 , 4,	18.6	150
225	Biomanufacturing of organ-specific tissues with high cellular density and embedded vascular channels. <i>Science Advances</i> , 2019 , 5, eaaw2459	14.3	298
224	Shape-shifting structured lattices via multimaterial 4D printing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20856-20862	11.5	138

223	Perovskite nanowire-block copolymer composites with digitally programmable polarization anisotropy. <i>Science Advances</i> , 2019 , 5, eaav8141	14.3	64
222	Renal reabsorption in 3D vascularized proximal tubule models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5399-5404	11.5	155
221	Flow-enhanced vascularization and maturation of kidney organoids in vitro. <i>Nature Methods</i> , 2019 , 16, 255-262	21.6	294
220	Fabricating 3D Structures by Combining 2D Printing and Relaxation of Strain. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800299	6.8	26
219	Voltage-controlled morphing of dielectric elastomer circular sheets into conical surfaces. <i>Extreme Mechanics Letters</i> , 2019 , 30, 100504	3.9	17
218	Soft Robotic Fingers with Embedded Ionogel Sensors and Discrete Actuation Modes for Somatosensitive Manipulation 2019 ,		22
217	Architected Polymer Foams via Direct Bubble Writing. <i>Advanced Materials</i> , 2019 , 31, e1904668	24	43
216	Generation and Initial Characterization of 3D Cortical Collecting Ducts (CCDs)-on-a-Chip. <i>FASEB Journal</i> , 2019 , 33, 862.31	0.9	
215	Voxelated soft matter via multimaterial multinozzle 3D printing. <i>Nature</i> , 2019 , 575, 330-335	50.4	356
214	Soft Somatosensitive Actuators via Embedded 3D Printing. <i>Advanced Materials</i> , 2018 , 30, e1706383	24	248
213	Viscoplastic Matrix Materials for Embedded 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23353-23361	9.5	97
212	All-Printed, Self-Aligned Carbon Nanotube Thin-Film Transistors on Imprinted Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15926-15932	9.5	27
211	Soft Robotics: Soft Somatosensitive Actuators via Embedded 3D Printing (Adv. Mater. 15/2018). <i>Advanced Materials</i> , 2018 , 30, 1870106	24	7
210	Architected Lattices with High Stiffness and Toughness via Multicore-Shell 3D Printing. <i>Advanced Materials</i> , 2018 , 30, e1705001	24	81
209	Rotational 3D printing of damage-tolerant composites with programmable mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1198-1203	11.5	140
208	3D Printing of Liquid Crystal Elastomeric Actuators with Spatially Programed Nematic Order. <i>Advanced Materials</i> , 2018 , 30, 1706164	24	308
207	Engineered 3D-printed artificial axons. <i>Scientific Reports</i> , 2018 , 8, 478	4.9	50
206	3D printed structures for modeling the Young's modulus of bamboo parenchyma. <i>Acta Biomaterialia</i> , 2018 , 68, 90-98	10.8	28

205	3D Printing of Customized Li-Ion Batteries with Thick Electrodes. <i>Advanced Materials</i> , 2018 , 30, e17030274	3.4	201
204	Self-aligned capillarity-assisted printing of top-gate thin-film transistors on plastic. <i>Flexible and Printed Electronics</i> , 2018 , 3, 035004	3.1	7
203	Photonic Sensing: Stretchable Optomechanical Fiber Sensors for Pressure Determination in Compressive Medical Textiles (Adv. Healthcare Mater. 15/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870061	10.1	2
202	In vitro human tissues via multi-material 3-D bioprinting. <i>ATLA Alternatives To Laboratory Animals</i> , 2018 , 46, 209-215	2.1	10
201	Mechanics of biomimetic 4D printed structures. <i>Soft Matter</i> , 2018 , 14, 8771-8779	3.6	13
200	High-Power Aqueous Zinc-Ion Batteries for Customized Electronic Devices. <i>ACS Nano</i> , 2018 , 12, 11838-11846	11.4	110
199	Acoustophoretic printing. <i>Science Advances</i> , 2018 , 4, eaat1659	14.3	88
198	Stretchable Optomechanical Fiber Sensors for Pressure Determination in Compressive Medical Textiles. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800293	10.1	34
197	Lightweight 3D cellular composites inspired by balsa. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 026014	2.6	48
196	Cellulose Nanocrystal Inks for 3D Printing of Textured Cellular Architectures. <i>Advanced Functional Materials</i> , 2017 , 27, 1604619	15.6	334
195	Architected cellular ceramics with tailored stiffness via direct foam writing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1832-1837	11.5	138
194	Gigahertz Electromagnetic Structures via Direct Ink Writing for Radio-Frequency Oscillator and Transmitter Applications. <i>Advanced Materials</i> , 2017 , 29, 1605198	24	68
193	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803	3.8	17
192	High-Operating-Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. <i>Advanced Materials</i> , 2017 , 29, 1604778	24	28
191	3D polymer objects with electronic components interconnected via conformally printed electrodes. <i>Nanoscale</i> , 2017 , 9, 14798-14803	7.7	20
190	Hybrid 3D Printing of Soft Electronics. <i>Advanced Materials</i> , 2017 , 29, 1703817	24	344
189	Microstructure and Elastic Properties of Colloidal Gel Foams. <i>Langmuir</i> , 2017 , 33, 6869-6877	4	14
188	Instrumented cardiac microphysiological devices via multimaterial three-dimensional printing. <i>Nature Materials</i> , 2017 , 16, 303-308	27	501

187	Visualization and simulation of the transfer process of index-matched silica microparticle inks for gravure printing. <i>AIChE Journal</i> , 2017 , 63, 1419-1429	3.6	4
186	An integrated design and fabrication strategy for entirely soft, autonomous robots. <i>Nature</i> , 2016 , 536, 451-5	50.4	1073
185	Redox Active Colloids as Discrete Energy Storage Carriers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13230-13237	16.4	81
184	Printed, Self-Aligned Side-Gate Organic Transistors with a Sub-5 μm Gate-Channel Distance on Imprinted Plastic Substrates. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600293	6.4	31
183	Bioprinting of 3D Convulated Renal Proximal Tubules on Perfusable Chips. <i>Scientific Reports</i> , 2016 , 6, 34845	4.9	371
182	Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1025-39	10.1	29
181	Biomimetic 4D printing. <i>Nature Materials</i> , 2016 , 15, 413-8	27	1682
180	Design, fabrication, and in vitro testing of novel three-dimensionally printed tympanic membrane grafts. <i>Hearing Research</i> , 2016 , 340, 191-203	3.9	54
179	Three-dimensional bioprinting of thick vascularized tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3179-84	11.5	927
178	Polymer Dielectrics for 3D-Printed RF Devices in the Ka Band. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600027	6.8	15
177	Controlling Material Reactivity Using Architecture. <i>Advanced Materials</i> , 2016 , 28, 1934-9	24	73
176	Printing soft matter in three dimensions. <i>Nature</i> , 2016 , 540, 371-378	50.4	806
175	Laser-assisted direct ink writing of planar and 3D metal architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6137-42	11.5	195
174	Stable propagation of mechanical signals in soft media using stored elastic energy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9722-7	11.5	162
173	Cellular Microcultures: Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing (Adv. Healthcare Mater. 9/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 990-990	10.1	4
172	High-resolution, high-aspect ratio conductive wires embedded in plastic substrates. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1841-7	9.5	35
171	3D-printed spherical dipole antenna integrated on small RF node. <i>Electronics Letters</i> , 2015 , 51, 661-662	1.1	25
170	Screen Printing of Highly Loaded Silver Inks on Plastic Substrates Using Silicon Stencils. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12619-24	9.5	89

169	Capacitive soft strain sensors via multicore-shell fiber printing. <i>Advanced Materials</i> , 2015 , 27, 2440-6	24	300
168	3D Printing Soft Materials: What Is Possible?. <i>Soft Robotics</i> , 2015 , 2, 3-6	9.2	26
167	Microfluidic Printheads for Multimaterial 3D Printing of Viscoelastic Inks. <i>Advanced Materials</i> , 2015 , 27, 3279-84	24	216
166	Structural optimization of 3D-printed synthetic spider webs for high strength. <i>Nature Communications</i> , 2015 , 6, 7038	17.4	107
165	Active mixing of complex fluids at the microscale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12293-8	11.5	160
164	Printing mesoscale architectures. <i>MRS Bulletin</i> , 2015 , 40, 943-950	3.2	86
163	3D Printing: Microfluidic Printheads for Multimaterial 3D Printing of Viscoelastic Inks (Adv. Mater. 21/2015). <i>Advanced Materials</i> , 2015 , 27, 3278-3278	24	8
162	Topology Optimized Architectures with Programmable Poisson's Ratio over Large Deformations. <i>Advanced Materials</i> , 2015 , 27, 5523-7	24	275
161	Rapid and Versatile Photonic Annealing of Graphene Inks for Flexible Printed Electronics. <i>Advanced Materials</i> , 2015 , 27, 6683-8	24	220
160	Multistable Architected Materials for Trapping Elastic Strain Energy. <i>Advanced Materials</i> , 2015 , 27, 4296-301	24	391
159	Wettability Contrast Gravure Printing. <i>Advanced Materials</i> , 2015 , 27, 7420-5	24	20
158	A Self-Aligned Strategy for Printed Electronics: Exploiting Capillary Flow on Microstructured Plastic Surfaces. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500137	6.4	37
157	Biphasic Electrode Suspensions for Li-Ion Semi-solid Flow Cells with High Energy Density, Fast Charge Transport, and Low-Dissipation Flow. <i>Advanced Energy Materials</i> , 2015 , 5, 1500535	21.8	51
156	Encapsulated liquid sorbents for carbon dioxide capture. <i>Nature Communications</i> , 2015 , 6, 6124	17.4	130
155	Device fabrication: Three-dimensional printed electronics. <i>Nature</i> , 2015 , 518, 42-3	50.4	173
154	Topology Optimized Architectures with Programmable Poisson's Ratio over Large Deformations 2015 , 27, 5523		1
153	Bioprinting: 3D Bioprinting of Vascularized, Heterogeneous Cell-Laden Tissue Constructs (Adv. Mater. 19/2014). <i>Advanced Materials</i> , 2014 , 26, 2966-2966	24	22
152	Reconfigurable assemblies of Janus rods in AC electric fields. <i>Soft Matter</i> , 2014 , 10, 1320-4	3.6	35

151	Amphiphilic silver particles for conductive inks with controlled wetting behavior. <i>Materials Chemistry and Physics</i> , 2014 , 148, 686-691	4.4	25
150	3D Printing: 3D-Printing of Lightweight Cellular Composites (Adv. Mater. 34/2014). <i>Advanced Materials</i> , 2014 , 26, 6043-6043	24	17
149	3D-printing of lightweight cellular composites. <i>Advanced Materials</i> , 2014 , 26, 5930-5	24	976
148	Embedded 3D printing of strain sensors within highly stretchable elastomers. <i>Advanced Materials</i> , 2014 , 26, 6307-12	24	1051
147	Inkjet printing of conductive inks with high lateral resolution on omniphobic "R(F) paper" for paper-based electronics and MEMS. <i>Advanced Materials</i> , 2014 , 26, 4677-82	24	189
146	Anisotropic colloidal templating of 3D ceramic, semiconducting, metallic, and polymeric architectures. <i>Advanced Materials</i> , 2014 , 26, 1740-5	24	18
145	3D bioprinting of vascularized, heterogeneous cell-laden tissue constructs. <i>Advanced Materials</i> , 2014 , 26, 3124-30	24	1418
144	Additive Micro-Manufacturing of Designer Materials 2014 , 13-24		1
143	Encapsulated Solvents for Carbon Dioxide Capture. <i>Energy Procedia</i> , 2013 , 37, 219-224	2.3	15
142	Colloidal ribbons and rings from Janus magnetic rods. <i>Nature Communications</i> , 2013 , 4, 1516	17.4	124
141	3D printing of interdigitated Li-ion microbattery architectures. <i>Advanced Materials</i> , 2013 , 25, 4539-43	24	879
140	Inkjet Printing: High-Throughput Printing via Microvascular Multinozzle Arrays (Adv. Mater. 1/2013). <i>Advanced Materials</i> , 2013 , 25, 2-2	24	7
139	High-throughput printing via microvascular multinozzle arrays. <i>Advanced Materials</i> , 2013 , 25, 96-102	24	106
138	Solid Free-Form Fabrication of 3-D Ceramic Structures 2012 , 459-484		4
137	Structural evolution of cuboidal granular media. <i>Soft Matter</i> , 2012 , 8, 4795	3.6	9
136	Reactive silver inks for patterning high-conductivity features at mild temperatures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1419-21	16.4	324
135	Janus colloidal matchsticks. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12901-3	16.4	71
134	Direct-write assembly of 3D silk/hydroxyapatite scaffolds for bone co-cultures. <i>Advanced Healthcare Materials</i> , 2012 , 1, 729-35	10.1	116

133	Direct-Write Assembly of 3D Polymeric Structures 2011 , 93-105		1
132	Planar and three-dimensional printing of conductive inks. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	24
131	Microstructure and Mechanical Properties of Reticulated Titanium Scrolls. <i>Advanced Engineering Materials</i> , 2011 , 13, 1122-1127	3.5	32
130	3D Microperiodic Hydrogel Scaffolds for Robust Neuronal Cultures. <i>Advanced Functional Materials</i> , 2011 , 21, 47-54	15.6	188
129	3D Microperiodic Hydrogel Scaffolds for Robust Neuronal Cultures. <i>Advanced Functional Materials</i> , 2011 , 21, 46-46	15.6	1
128	Accelerated Self-Healing Via Ternary Interpenetrating Microvascular Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 4320-4326	15.6	76
127	Conformal printing of electrically small antennas on three-dimensional surfaces. <i>Advanced Materials</i> , 2011 , 23, 1335-40	24	402
126	Omnidirectional printing of 3D microvascular networks. <i>Advanced Materials</i> , 2011 , 23, H178-83	24	536
125	Pen-on-paper flexible electronics. <i>Advanced Materials</i> , 2011 , 23, 3426-30	24	550
124	Photocurable liquid core-fugitive shell printing of optical waveguides. <i>Advanced Materials</i> , 2011 , 23, 5055-8	24	59
123	Printing Microvascular Networks: Omnidirectional Printing of 3D Microvascular Networks (Adv. Mater. 24/2011). <i>Advanced Materials</i> , 2011 , 23, H177-H177	24	6
122	Genotyping by alkaline dehybridization using graphically encoded particles. <i>Chemistry - A European Journal</i> , 2011 , 17, 2867-73	4.8	5
121	Transparent conductive grids via direct writing of silver nanoparticle inks. <i>Nanoscale</i> , 2011 , 3, 2700-2	7.7	128
120	Design of spherical meanderline antennas 2011 ,		1
119	Designing colloidal suspensions for directed materials assembly. <i>Current Opinion in Colloid and Interface Science</i> , 2011 , 16, 71-79	7.6	42
118	Comparison of Spherical Antennas Fabricated via Conformal Printing: Helix, Meanderline, and Hybrid Designs. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1425-1428	3.8	23
117	Polymer Microvascular Network Composites. <i>Journal of Composite Materials</i> , 2010 , 44, 2587-2603	2.7	58
116	Long range interactions in nanoscale science. <i>Reviews of Modern Physics</i> , 2010 , 82, 1887-1944	40.5	304

115	Direct-write assembly of biomimetic microvascular networks for efficient fluid transport. <i>Soft Matter</i> , 2010 , 6, 739-742	3.6	95
114	Structural evolution of colloidal gels during constricted microchannel flow. <i>Langmuir</i> , 2010 , 26, 6102-7	4	9
113	Direct-write assembly of microperiodic planar and spanning ITO microelectrodes. <i>Chemical Communications</i> , 2010 , 46, 7118-20	5.8	32
112	Ultrathin silicon solar microcells for semitransparent, mechanically flexible and microconcentrator module designs 2010 , 38-46		0
111	Multidimensional architectures for functional optical devices. <i>Advanced Materials</i> , 2010 , 22, 1084-101	24	154
110	Printed origami structures. <i>Advanced Materials</i> , 2010 , 22, 2251-4	24	120
109	Two- and three-dimensional folding of thin film single-crystalline silicon for photovoltaic power applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20149-54	11.5	170
108	Delivery of Two-Part Self-Healing Chemistry via Microvascular Networks. <i>Advanced Functional Materials</i> , 2009 , 19, 1399-1405	15.6	233
107	Direct Laser Writing of Photoresponsive Colloids for Microscale Patterning of 3D Porous Structures. <i>Advanced Materials</i> , 2009 , 21, 66-70	24	39
106	Biocompatible Silk Printed Optical Waveguides. <i>Advanced Materials</i> , 2009 , 21, 2411-2415	24	260
105	Direct-Write Assembly of 3D Hydrogel Scaffolds for Guided Cell Growth. <i>Advanced Materials</i> , 2009 , 21, 2407-2410	24	237
104	Self-Healing Materials with Interpenetrating Microvascular Networks. <i>Advanced Materials</i> , 2009 , 21, 4143-4147	24	305
103	Comb Polymer Architecture, Ionic Strength, and Particle Size Effects on the BaTiO ₃ Suspension Stability. <i>Journal of the American Ceramic Society</i> , 2009 , 92, S42-S49	3.8	30
102	Effect of ceramic preform geometry on load partitioning in Al ₂ O ₃ /Al composites with three-dimensional periodic architecture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 190-196	5.3	15
101	Load partitioning in Al ₂ O ₃ /Al composites with three-dimensional periodic architecture. <i>Acta Materialia</i> , 2009 , 57, 2362-2375	8.4	33
100	Cationic comb polymer superdispersants for colloidal silica suspensions. <i>Langmuir</i> , 2009 , 25, 6787-92	4	27
99	Omnidirectional printing of flexible, stretchable, and spanning silver microelectrodes. <i>Science</i> , 2009 , 323, 1590-3	33.3	961
98	Evaporative lithographic patterning of binary colloidal films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 5157-65	3	32

97	Ultrathin silicon solar microcells for semitransparent, mechanically flexible and microconcentrator module designs. <i>Nature Materials</i> , 2008 , 7, 907-15	27	534
96	Size ratio effects on interparticle interactions and phase behavior of microsphere-nanoparticle mixtures. <i>Langmuir</i> , 2008 , 24, 11399-405	4	20
95	Quantitative measurement of nanoparticle halo formation around colloidal microspheres in binary mixtures. <i>Langmuir</i> , 2008 , 24, 6504-8	4	38
94	Structure of colloidal gels during microchannel flow. <i>Langmuir</i> , 2008 , 24, 7628-34	4	44
93	Marangoni effects on evaporative lithographic patterning of colloidal films. <i>Langmuir</i> , 2008 , 24, 3681-5	4	72
92	Scaffold design and fabrication 2008 , 403-454		30
91	Structure and dynamics of biphasic colloidal mixtures. <i>Physical Review E</i> , 2008 , 77, 060403	2.4	22
90	Direct-Write Assembly of Microperiodic Silk Fibroin Scaffolds for Tissue Engineering Applications. <i>Advanced Functional Materials</i> , 2008 , 18, 1883-1889	15.6	219
89	Stop-Flow Lithography of Colloidal, Glass, and Silicon Microcomponents. <i>Advanced Materials</i> , 2008 , 20, 4734-4739	24	78
88	Direct flow visualization of colloidal gels in microfluidic channels. <i>Langmuir</i> , 2007 , 23, 8726-31	4	32
87	Phase behavior and rheological properties of polyamine-rich complexes for direct-write assembly. <i>Langmuir</i> , 2007 , 23, 12752-9	4	16
86	Patterning colloidal films via evaporative lithography. <i>Physical Review Letters</i> , 2007 , 98, 148301	7.4	155
85	Rheological Behavior of Fugitive Organic Inks for Direct-Write Assembly. <i>Applied Rheology</i> , 2007 , 17, 10112-1-10112-8	1.2	29
84	A Germanium Inverse Woodpile Structure with a Large Photonic Band Gap. <i>Advanced Materials</i> , 2007 , 19, 1567-1570	24	73
83	Sol-Gel Inks for Direct-Write Assembly of Functional Oxides. <i>Advanced Materials</i> , 2007 , 19, 3485-3489	24	166
82	In vivo bone response to 3D periodic hydroxyapatite scaffolds assembled by direct ink writing. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 747-58	5.4	145
81	Self-healing materials with microvascular networks. <i>Nature Materials</i> , 2007 , 6, 581-5	27	1198
80	Computational design and optimization of a biomimetic self-healing/cooling composite material 2007 , 6526, 323		11

79	Direct Ink Writing of 3D Functional Materials. <i>Advanced Functional Materials</i> , 2006 , 16, 2193-2204	15.6	946
78	Direct-Write Assembly of Three-Dimensional Photonic Crystals: Conversion of Polymer Scaffolds to Silicon Hollow-Woodpile Structures. <i>Advanced Materials</i> , 2006 , 18, 461-465	24	157
77	Three-Dimensional Periodic Structures 2006 , 87-100		7
76	Biomimetic silicification of 3D polyamine-rich scaffolds assembled by direct ink writing. <i>Soft Matter</i> , 2006 , 2, 205-209	3.6	66
75	Microfluidic assembly of homogeneous and Janus colloid-filled hydrogel granules. <i>Langmuir</i> , 2006 , 22, 8618-22	4	236
74	Nonlinear elasticity and yielding of nanoparticle glasses. <i>Langmuir</i> , 2006 , 22, 2441-3	4	22
73	Phase Behavior, 3-D Structure, and Rheology of Colloidal Microsphere/Nanoparticle Suspensions. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1840-1846	3.8	16
72	Direct Ink Writing of Three-Dimensional Ceramic Structures. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3599-3609	3.8	482
71	Interparticle interactions and direct imaging of colloidal phases assembled from microsphere-nanoparticle mixtures. <i>Langmuir</i> , 2005 , 21, 9978-89	4	41
70	Electrostatically tuned interactions in silica microsphere-polystyrene nanoparticle mixtures. <i>Langmuir</i> , 2005 , 21, 8576-9	4	37
69	Light-regulated electrostatic interactions in colloidal suspensions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14574-5	16.4	47
68	Phase behavior and rheological properties of polyelectrolyte inks for direct-write assembly. <i>Langmuir</i> , 2005 , 21, 457-64	4	60
67	Phase behavior and 3D structure of strongly attractive microsphere-nanoparticle mixtures. <i>Langmuir</i> , 2005 , 21, 11040-7	4	31
66	Soluble organic additive effects on stress development during drying of calcium carbonate suspensions. <i>Journal of Colloid and Interface Science</i> , 2005 , 290, 134-44	9.3	29
65	Cement Composition Effects on the Rheological Property Evolution in Concentrated Cement/Polyelectrolyte Suspensions. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1836-1842	3.8	3
64	Fugitive Inks for Direct-Write Assembly of Three-Dimensional Microvascular Networks. <i>Advanced Materials</i> , 2005 , 17, 395-399	24	188
63	Microfabricated Deposition Nozzles for Direct-Write Assembly of Three-Dimensional Periodic Structures. <i>Advanced Materials</i> , 2005 , 17, 289-293	24	89
62	Concentrated hydroxyapatite inks for direct-write assembly of 3-D periodic scaffolds. <i>Biomaterials</i> , 2005 , 26, 5632-9	15.6	208

61	Chemorheology of Aqueous-Based Alumina-Poly(vinyl alcohol) Gelcasting Suspensions. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 521-528	3.8	79
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