

# Maxim Shusteff

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,987  
citations

623734

14  
h-index

610901

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

4231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralight, ultrastiff mechanical metamaterials. <i>Science</i> , 2014, 344, 1373-1377.	12.6	1,592
2	Volumetric additive manufacturing via tomographic reconstruction. <i>Science</i> , 2019, 363, 1075-1079.	12.6	584
3	Calcium-sensitive MRI contrast agents based on superparamagnetic iron oxide nanoparticles and calmodulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14707-14712.	7.1	220
4	One-step volumetric additive manufacturing of complex polymer structures. <i>Science Advances</i> , 2017, 3, eaao5496.	10.3	219
5	Highly Tunable Thiol-ene Photoresins for Volumetric Additive Manufacturing. <i>Advanced Materials</i> , 2020, 32, e2003376.	21.0	72
6	Performance Evaluation of Fast Microfluidic Thermal Lysis of Bacteria for Diagnostic Sample Preparation. <i>Diagnostics</i> , 2013, 3, 105-116.	2.6	40
7	Acoustic focusing with engineered node locations for high-performance microfluidic particle separation. <i>Analyst, The</i> , 2014, 139, 1192-1200.	3.5	34
8	Scanning two-photon continuous flow lithography for synthesis of high-resolution 3D microparticles. <i>Optics Express</i> , 2018, 26, 13543.	3.4	26
9	Measuring Boltzmann's constant with a low-cost atomic force microscope: An undergraduate experiment. <i>American Journal of Physics</i> , 2006, 74, 873-879.	0.7	22
10	Holographic optical assembly and photopolymerized joining of planar microspheres. <i>Optics Letters</i> , 2016, 41, 3571.	3.3	18
11	Microreactor flow synthesis of the secondary high explosive 2,6-diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Journal of Flow Chemistry</i> , 2015, 5, 178-182.	1.9	17
12	Efficient coupling of acoustic modes in microfluidic channel devices. <i>Lab on A Chip</i> , 2015, 15, 3192-3202.	6.0	17
13	Object-space optimization of tomographic reconstructions for additive manufacturing. <i>Additive Manufacturing</i> , 2021, 48, 102367.	3.0	17
14	Latent image volumetric additive manufacturing. <i>Optics Letters</i> , 2022, 47, 1279.	3.3	17
15	On the Network Topology of Cross-Linked Acrylate Photopolymers: A Molecular Dynamics Case Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9204-9215.	2.6	15
16	Computed axial lithography: volumetric 3D printing of arbitrary geometries (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,142 Td (		12
17	Volumetric additive manufacturing of shape memory polymers. <i>Polymer Chemistry</i> , 2022, 13, 1813-1817.	3.9	12
18	Microfluidic-Based Amplification-Free Bacterial DNA Detection by Dielectrophoretic Concentration and Fluorescent Resonance Energy Transfer Assisted in Situ Hybridization (FRET-ISH). <i>Biosensors</i> , 2012, 2, 405-416.	4.7	11

#	ARTICLE	IF	CITATIONS
19	Modeling meso- and microstructure in materials patterned with acoustic focusing. <i>Materials and Design</i> , 2021, 202, 109512.	7.0	8
20	A Microfluidic Platform for Precision Small-volume Sample Processing and Its Use to Size Separate Biological Particles with an Acoustic Microdevice. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	6
21	Performance of three-dimensional printed nasopharyngeal swabs for COVID-19 testing. <i>MRS Bulletin</i> , 2021, 46, 813-821.	3.5	6
22	Anisotropic Thermally Conductive Composites Enabled by Acoustophoresis and Stereolithography. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
23	Spatial tuning of acoustofluidic pressure nodes by altering net sonic velocity enables high-throughput, efficient cell sorting. <i>Lab on A Chip</i> , 2015, 15, 1000-1003.	6.0	5
24	Experimental characterization and modeling of optical tweezer particle handling dynamics. <i>Applied Optics</i> , 2018, 57, 6565.	1.8	4
25	Novel, rapid DNA-based on-chip bacterial identification system combining dielectrophoresis and amplification-free fluorescent resonance energy transfer assisted in-situ hybridization (FRET-ISH). , 2011, , .		3
26	Lightweight micro lattices with nanoscale features fabricated from Projection Microstereolithography. , 2014, , .		1
27	Planar Microparticle Assembly and Photopolymerized Joining with Holographic Optical Tweezers. , 2016, , .		0
28	Optimal Source Beam Shaping for Digital Holographic Lithography. , 2016, , .		0
29	Fluorescence correlation spectroscopy measurements of proteins expressed inside microcapsules. <i>Biophysical Journal</i> , 2022, 121, 413a-414a.	0.5	0
30	Computational optimization and the role of optical metrology in tomographic additive manufacturing. , 2022, , .		0