

# Chaitanya K Ullal

## List of Publications by Year in descending order

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36  
papers

2,223  
citations

304602

22  
h-index

377752

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2690  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolution scaling in STED microscopy. <i>Optics Express</i> , 2008, 16, 4154.	1.7	380
2	Hypersonic Phononic Crystals. <i>Physical Review Letters</i> , 2005, 94, 115501.	2.9	287
3	3D Micro- and Nanostructures via Interference Lithography. <i>Advanced Functional Materials</i> , 2007, 17, 3027-3041.	7.8	192
4	Photonic crystals through holographic lithography: Simple cubic, diamond-like, and gyroid-like structures. <i>Applied Physics Letters</i> , 2004, 84, 5434-5436.	1.5	185
5	Three-Dimensional Nanoscopy of Colloidal Crystals. <i>Nano Letters</i> , 2008, 8, 1309-1313.	4.5	177
6	Dielectric omnidirectional visible reflector. <i>Optics Letters</i> , 2001, 26, 1197.	1.7	109
7	Mechanically Tunable Three-Dimensional Elastomeric Network/Air Structures via Interference Lithography. <i>Nano Letters</i> , 2006, 6, 740-743.	4.5	98
8	Triply periodic bicontinuous structures through interference lithography: a level-set approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 948.	0.8	89
9	Exploring for 3D photonic bandgap structures in the 11 f.c.c. space groups. <i>Nature Materials</i> , 2003, 2, 664-667.	13.3	87
10	Functional Biomimetic Microlens Arrays with Integrated Pores. <i>Advanced Materials</i> , 2005, 17, 435-438.	11.1	84
11	3D Polymer Microframes That Exploit Length-Scale-Dependent Mechanical Behavior. <i>Advanced Materials</i> , 2006, 18, 2123-2127.	11.1	61
12	Sub-Micrometer Scale Periodic Porous Cellular Structures: Microframes Prepared by Holographic Interference Lithography. <i>Advanced Materials</i> , 2007, 19, 3809-3813.	11.1	58
13	Block Copolymer Nanostructures Mapped by Far-Field Optics. <i>Nano Letters</i> , 2009, 9, 2497-2500.	4.5	53
14	Shape Control of Multivalent 3D Colloidal Particles via Interference Lithography. <i>Nano Letters</i> , 2007, 7, 647-651.	4.5	41
15	Bimodal "matrix-free" polymer nanocomposites. <i>RSC Advances</i> , 2015, 5, 14788-14795.	1.7	37
16	3D mapping of nanoscale crosslink heterogeneities in microgels. <i>Materials Horizons</i> , 2018, 5, 1130-1136.	6.4	37
17	The Elastic Properties and Plastic Behavior of Two-Dimensional Polymer Structures Fabricated by Laser Interference Lithography. <i>Advanced Functional Materials</i> , 2006, 16, 1324-1330.	7.8	34
18	Non-equilibrium phase synthesis in $\text{Al}_2\text{O}_3\text{-Y}_2\text{O}_3$ by spray pyrolysis of nitrate precursors. <i>Acta Materialia</i> , 2001, 49, 2691-2699.	3.8	31

#	ARTICLE	IF	CITATIONS
19	Dynamic Imaging of Colloidal-Crystal Nanostructures at 200 Frames per Second. <i>Langmuir</i> , 2010, 26, 14400-14404.	1.6	31
20	Spirothiopyran-Based Reversibly Saturable Photoresist. <i>Chemistry of Materials</i> , 2017, 29, 4754-4760.	3.2	29
21	Flexible Microdomain Specific Staining of Block Copolymers for 3D Optical Nanoscopy. <i>Macromolecules</i> , 2011, 44, 7508-7510.	2.2	23
22	Micro lens arrays with integrated pores as a multipattern photomask. <i>Applied Physics Letters</i> , 2005, 86, 201121.	1.5	22
23	Wetting Regimes for Residual-Layer-Free Transfer Molding at Micro- and Nanoscales. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36385-36391.	4.0	15
24	Electron mobility in graphene without invoking the Dirac equation. <i>American Journal of Physics</i> , 2019, 87, 291-295.	0.3	13
25	Quantification of functional crosslinker reaction kinetics via super-resolution microscopy of swollen microgels. <i>Soft Matter</i> , 2019, 15, 9336-9342.	1.2	11
26	Super-resolution interference lithography enabled by non-equilibrium kinetics of photochromic monolayers. <i>RSC Advances</i> , 2019, 9, 28841-28850.	1.7	8
27	Effect of Chemical Microenvironment in Spirothiopyran Monolayer Direct-Write Photoresists. <i>Langmuir</i> , 2019, 35, 3871-3879.	1.6	8
28	Super-Resolution Imaging of Spatial Heterogeneities in Model Thermosensitive Hydrogels with Implications for Their Origins. <i>Macromolecules</i> , 2021, 54, 7743-7753.	2.2	5
29	Aptamer functionalized silver clusters for STED microscopy. <i>RSC Advances</i> , 2017, 7, 11821-11826.	1.7	4
30	Dye doped concentric shell nanoparticles for enhanced photophysical performance of downconverting light emitting diodes. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 753-760.	5.0	4
31	Corona Treatment for Nanotransfer Molding Adhesion. <i>ACS Applied Polymer Materials</i> , 2019, 1, 997-1005.	2.0	4
32	One-pot surfactant-free modulation of size and functional group distribution in thermoresponsive microgels. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 264-272.	5.0	4
33	Size effects in plasma-enhanced nano-transfer adhesion. <i>Soft Matter</i> , 2018, 14, 9220-9226.	1.2	1
34	Coupled Electromagnetic and Reaction Kinetics Simulation of Super-Resolution Interference Lithography. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7717-7724.	1.2	1
35	Exploring Space Groups for Three Dimensional Photonic Band Gap Structures Via Level Set Equations: The Face Centered Cubic Lattice. <i>Materials Research Society Symposia Proceedings</i> , 2003, 788, 1071.	0.1	0
36	Fast STED Microscopy for Live Cell Imaging. <i>Biophysical Journal</i> , 2011, 100, 355a.	0.2	0