

Chaitanya K Ullal

List of Publications by Year in descending order

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36
papers

2,223
citations

304743
22
h-index

377865
34
g-index

36
all docs

36
docs citations

36
times ranked

2690
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolution scaling in STED microscopy. Optics Express, 2008, 16, 4154.	3.4	380
2	Hypersonic Phononic Crystals. Physical Review Letters, 2005, 94, 115501.	7.8	287
3	3D Micro- and Nanostructures via Interference Lithography. Advanced Functional Materials, 2007, 17, 3027-3041.	14.9	192
4	Photonic crystals through holographic lithography: Simple cubic, diamond-like, and gyroid-like structures. Applied Physics Letters, 2004, 84, 5434-5436.	3.3	185
5	Three-Dimensional Nanoscopy of Colloidal Crystals. Nano Letters, 2008, 8, 1309-1313.	9.1	177
6	Dielectric omnidirectional visible reflector. Optics Letters, 2001, 26, 1197.	3.3	109
7	Mechanically Tunable Three-Dimensional Elastomeric Network/Air Structures via Interference Lithography. Nano Letters, 2006, 6, 740-743.	9.1	98
8	Triply periodic bicontinuous structures through interference lithography: a level-set approach. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 948.	1.5	89
9	Exploring for 3D photonic bandgap structures in the 11 f.c.c. space groups. Nature Materials, 2003, 2, 664-667.	27.5	87
10	Functional Biomimetic Microlens Arrays with Integrated Pores. Advanced Materials, 2005, 17, 435-438.	21.0	84
11	3D Polymer Microframes That Exploit Length-Scale-Dependent Mechanical Behavior. Advanced Materials, 2006, 18, 2123-2127.	21.0	61
12	Sub-Micrometer Scale Periodic Porous Cellular Structures: Microframes Prepared by Holographic Interference Lithography. Advanced Materials, 2007, 19, 3809-3813.	21.0	58
13	Block Copolymer Nanostructures Mapped by Far-Field Optics. Nano Letters, 2009, 9, 2497-2500.	9.1	53
14	Shape Control of Multivalent 3D Colloidal Particles via Interference Lithography. Nano Letters, 2007, 7, 647-651.	9.1	41
15	Bimodal "matrix-free" polymer nanocomposites. RSC Advances, 2015, 5, 14788-14795.	3.6	37
16	3D mapping of nanoscale crosslink heterogeneities in microgels. Materials Horizons, 2018, 5, 1130-1136.	12.2	37
17	The Elastic Properties and Plastic Behavior of Two-Dimensional Polymer Structures Fabricated by Laser Interference Lithography. Advanced Functional Materials, 2006, 16, 1324-1330.	14.9	34
18	Non-equilibrium phase synthesis in Al ₂ O ₃ -Y ₂ O ₃ by spray pyrolysis of nitrate precursors. Acta Materialia, 2001, 49, 2691-2699.	7.9	31

#	ARTICLE	IF	CITATIONS
19	Dynamic Imaging of Colloidal-Crystal Nanostructures at 200 Frames per Second. Langmuir, 2010, 26, 14400-14404.	3.5	31
20	Spirothiopyran-Based Reversibly Saturable Photoresist. Chemistry of Materials, 2017, 29, 4754-4760.	6.7	29
21	Flexible Microdomain Specific Staining of Block Copolymers for 3D Optical Nanoscopy. Macromolecules, 2011, 44, 7508-7510.	4.8	23
22	Micro lens arrays with integrated pores as a multipattern photomask. Applied Physics Letters, 2005, 86, 201121.	3.3	22
23	Wetting Regimes for Residual-Layer-Free Transfer Molding at Micro- and Nanoscales. ACS Applied Materials & Interfaces, 2017, 9, 36385-36391.	8.0	15
24	Electron mobility in graphene without invoking the Dirac equation. American Journal of Physics, 2019, 87, 291-295.	0.7	13
25	Quantification of functional crosslinker reaction kinetics via super-resolution microscopy of swollen microgels. Soft Matter, 2019, 15, 9336-9342.	2.7	11
26	Super-resolution interference lithography enabled by non-equilibrium kinetics of photochromic monolayers. RSC Advances, 2019, 9, 28841-28850.	3.6	8
27	Effect of Chemical Microenvironment in Spirothiopyran Monolayer Direct-Write Photoresists. Langmuir, 2019, 35, 3871-3879.	3.5	8
28	Super-Resolution Imaging of Spatial Heterogeneities in Model Thermosensitive Hydrogels with Implications for Their Origins. Macromolecules, 2021, 54, 7743-7753.	4.8	5
29	Aptamer functionalized silver clusters for STED microscopy. RSC Advances, 2017, 7, 11821-11826.	3.6	4
30	Dye doped concentric shell nanoparticles for enhanced photophysical performance of downconverting light emitting diodes. Journal of Colloid and Interface Science, 2019, 556, 753-760.	9.4	4
31	Corona Treatment for Nanotransfer Molding Adhesion. ACS Applied Polymer Materials, 2019, 1, 997-1005.	4.4	4
32	One-pot surfactant-free modulation of size and functional group distribution in thermoresponsive microgels. Journal of Colloid and Interface Science, 2020, 568, 264-272.	9.4	4
33	Size effects in plasma-enhanced nano-transfer adhesion. Soft Matter, 2018, 14, 9220-9226.	2.7	1
34	Coupled Electromagnetic and Reaction Kinetics Simulation of Super-Resolution Interference Lithography. Journal of Physical Chemistry B, 2020, 124, 7717-7724.	2.6	1
35	Exploring Space Groups for Three Dimensional Photonic Band Gap Structures Via Level Set Equations: The Face Centered Cubic Lattice. Materials Research Society Symposia Proceedings, 2003, 788, 1071.	0.1	0
36	Fast STED Microscopy for Live Cell Imaging. Biophysical Journal, 2011, 100, 355a.	0.5	0