Shu Yang

List of Publications by Year in Descending Order

276 papers	14,550 citations	66 h-index	111 g-index
291 ext. papers	16,501 ext. citations	9.7 avg, IF	6.93 L-index

#	Paper	IF	Citations
276	iPS-derived neural stem cells for disease modeling and evaluation of therapeutics for mucopolysaccharidosis type II.. *Experimental Cell Research*, **2022**, 412, 113007	4.2	0
275	Photopatterning via Photofluidization of Azobenzene Polymers. *Light Advanced Manufacturing*, **2022**, 2, 1	1	0
274	Multi-functional liquid crystal elastomer composites. *Applied Physics Reviews*, **2022**, 9, 011301	17.3	9
273	The Immunofluorescence-Based Detection of Hedgehog Pathway Components in Primary Cilia of Cultured Cells. *Methods in Molecular Biology*, **2022**, 2374, 89-94	1.4	0
272	Bioinspired, Omnidirectional and Hypersensitive Flexible Strain Sensors.. *Advanced Materials*, **2022**, e2200823	24	5
271	Mechanically robust superamphiphobic ceramic coatings with releasable nanoparticle-capsules. *Chemical Engineering Journal*, **2022**, 137336	14.7	2
270	Biopolymer-Based Filtration Materials. *ACS Omega*, **2021**, 6, 11804-11812	3.9	7
269	Competitive coordination of the dual roles of the Hedgehog co-receptor in homophilic adhesion and signal reception. *ELife*, **2021**, 10,	8.9	2
268	A Fully Integrated Sensor-Brain-Machine Interface System for Restoring Somatosensation. *IEEE Sensors Journal*, **2021**, 21, 4764-4775	4	8
267	Three-Dimensional Photoengraving of Monolithic, Multifaceted Metasurfaces. *Advanced Materials*, **2021**, 33, e2005454	24	8
266	Direct recovery of spilled oil using hierarchically porous oil scoop with capillary-induced anti-oil-fouling. *Journal of Hazardous Materials*, **2021**, 410, 124549	12.8	2
265	Highly Robust, Pressure-Resistant Superhydrophobic Coatings from Monolayer Assemblies of Chained Nanoparticles. *Advanced Materials Interfaces*, **2021**, 8, 2000681	4.6	2
264	An Integrated Systems Biology Approach Identifies the Proteasome as A Critical Host Machinery for ZIKV and DENV Replication. *Genomics, Proteomics and Bioinformatics*, **2021**, 19, 108-122	6.5	3
263	Earthworm-Inspired Ultradurable Superhydrophobic Fabrics from Adaptive Wrinkled Skin. *ACS Applied Materials & Interfaces*, **2021**, 13, 6758-6766	9.5	13
262	Aerodynamics-assisted, efficient and scalable kirigami fog collectors. *Nature Communications*, **2021**, 12, 5484	17.4	10
261	Broadband and pixelated camouflage in inflating chiral nematic liquid crystalline elastomers. *Nature Materials*, **2021**,	27	17
260	Generation of two gene corrected human isogenic iPSC lines (NCATS-CL6104 and NCATS-CL6105) from a patient line (NCATS-CL6103) carrying a homozygous p.R401X mutation in the NGLY1 gene using CRISPR/Cas9. *Stem Cell Research*, **2021**, 56, 102554	1.6	1

259	Disease modeling for Mucopolysaccharidosis type IIIB using patient derived induced pluripotent stem cells. *Experimental Cell Research*, **2021**, 407, 112785	4.2	2
258	Solvent-Assisted 4D Programming and Reprogramming of Liquid Crystalline Organo-gels. *Advanced Materials*, **2021**, e2107855	24	6
257	Recoverable underwater superhydrophobicity from a fully wetted state via dynamic air spreading. *IScience*, **2021**, 24, 103427	6.1	0
256	Zika Virus-Induced Neuronal Apoptosis via Increased Mitochondrial Fragmentation. *Frontiers in Microbiology*, **2020**, 11, 598203	5.7	14
255	Recyclable Superhydrophobic, Antimoisture-Activated Carbon Pellets for Air and Water Purification. *ACS Applied Materials & Interfaces*, **2020**, 12, 25345-25352	9.5	9
254	A Tendon-Driven Origami Hopper Triggered by Proprioceptive Contact Detection **2020**,		2
253	Shaping and Locomotion of Soft Robots Using Filament Actuators Made from Liquid Crystal Elastomer□arbon Nanotube Composites. *Advanced Intelligent Systems*, **2020**, 2, 2070063	6	
252	Highly conductive and transparent coatings from flow-aligned silver nanowires with large electrical and optical anisotropy. *Nanoscale*, **2020**, 12, 6438-6448	7.7	10
251	Scalable Manufacturing of Bending-Induced Surface Wrinkles. *ACS Applied Materials & Interfaces*, **2020**, 12, 7658-7664	9.5	9
250	A Programmably Compliant Origami Mechanism for Dynamically Dexterous Robots. *IEEE Robotics and Automation Letters*, **2020**, 5, 2131-2137	4.2	9
249	Shaping and Locomotion of Soft Robots Using Filament Actuators Made from Liquid Crystal Elastomer□arbon Nanotube Composites. *Advanced Intelligent Systems*, **2020**, 2, 1900163	6	38
248	Modeling CNS Involvement in Pompe Disease Using Neural Stem Cells Generated from Patient-Derived Induced Pluripotent Stem Cells. *Cells*, **2020**, 10,	7.9	2
247	Responsive and Foldable Soft Materials. *Trends in Chemistry*, **2020**, 2, 107-122	14.8	22
246	Repeatable and Reprogrammable Shape Morphing from Photoresponsive Gold Nanorod/Liquid Crystal Elastomers. *Advanced Materials*, **2020**, 32, e2004270	24	37
245	Thermally Responsive Photonic Fibers Consisting of Chained Nanoparticles. *ACS Applied Materials & Interfaces*, **2020**, 12, 50844-50851	9.5	11
244	Cell-Based No-Wash Fluorescence Assays for Compound Screens Using a Fluorescence Cytometry Plate Reader. *Journal of Pharmacology and Experimental Therapeutics*, **2020**, 374, 500-511	4.7	
243	The Rag GTPase Regulates the Dynamic Behavior of TSC Downstream of Both Amino Acid and Growth Factor Restriction. *Developmental Cell*, **2020**, 55, 272-288.e5	10.2	9
242	Patterned, Wearable UV Indicators from Electrospun Photochromic Fibers and Yarns. *Advanced Materials Technologies*, **2020**, 5, 2000564	6.8	13

241	Responsive Smart Windows from Nanoparticle–Polymer Composites. *Advanced Functional Materials*, **2020**, 30, 1902597	15.6	58
240	Mimicry of a biophysical pathway leads to diverse pollen-like surface patterns. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9699-9705	11.5	6
239	Intrinsically reversible superglues via shape adaptation inspired by snail epiphragm. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13774-13779	11.5	56
238	17-Hydroxy Wortmannin Restores TRAIL's Response by Ameliorating Increased Beclin 1 Level and Autophagy Function in TRAIL-Resistant Colon Cancer Cells. *Molecular Cancer Therapeutics*, **2019**, 18, 1265-1277	6.1	1
237	Ultrastable Underwater Anti-Oil Fouling Coatings from Spray Assemblies of Polyelectrolyte Grafted Silica Nanochains. *ACS Applied Materials & Interfaces*, **2019**, 11, 13642-13651	9.5	26
236	Tailoring surface patterns to direct the assembly of liquid crystalline materials. *Liquid Crystals Reviews*, **2019**, 7, 30-59	2.8	15
235	A surface with stress, extensional elasticity, and bending stiffness. *Soft Matter*, **2019**, 15, 3817-3827	3.6	10
234	An induced pluripotent stem cell line (TRNDi010-C) from a patient carrying a homozygous p.R401X mutation in the NGLY1 gene. *Stem Cell Research*, **2019**, 39, 101496	1.6	1
233	Integration of Hierarchical Micro-/Nanostructures in a Microfluidic Chip for Efficient and Selective Isolation of Rare Tumor Cells. *Micromachines*, **2019**, 10,	3.3	1
232	Programming emergent symmetries with saddle-splay elasticity. *Nature Communications*, **2019**, 10, 5104	17.4	3
231	Programmable active kirigami metasheets with more freedom of actuation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**,	11.5	52
230	Molecular heterogeneity drives reconfigurable nematic liquid crystal drops. *Nature*, **2019**, 576, 433-436	50.4	19
229	Monolithic shape-programmable dielectric liquid crystal elastomer actuators. *Science Advances*, **2019**, 5, eaay0855	14.3	60
228	Liquid mobility on superwettable surfaces for applications in energy and the environment. *Journal of Materials Chemistry A*, **2019**, 7, 38-63	13	117
227	Instant Locking of Molecular Ordering in Liquid Crystal Elastomers by Oxygen-Mediated Thiol-Acrylate Click Reactions. *Angewandte Chemie - International Edition*, **2018**, 57, 5665-5668	16.4	50
226	Tailoring Pore Size, Structure, and Morphology of Hierarchical Mesoporous Silica Using Diblock and Pentablock Copolymer Templates. *Journal of Physical Chemistry C*, **2018**, 122, 4507-4516	3.8	13
225	Elastocapillary Driven Assembly of Particles at Free-Standing Smectic-A Films. *Langmuir*, **2018**, 34, 2006-2013	4	6
224	Instant Locking of Molecular Ordering in Liquid Crystal Elastomers by Oxygen-Mediated Thiol–Acrylate Click Reactions. *Angewandte Chemie*, **2018**, 130, 5767-5770	3.6	18

223	Angle-Independent Optical Moisture Sensors Based on Hydrogel-Coated Plasmonic Lattice Arrays. *ACS Applied Nano Materials*, **2018**, 1, 1430-1437	5.6	12
222	Layer-by-layer assembly of MXene and carbon nanotubes on electrospun polymer films for flexible energy storage. *Nanoscale*, **2018**, 10, 6005-6013	7.7	124
221	Shear Adhesion of Tapered Nanopillar Arrays. *ACS Applied Materials & Interfaces*, **2018**, 10, 11391-11397	9.5	15
220	Small GTPase proteins in macroautophagy. *Small GTPases*, **2018**, 9, 409-414	2.7	7
219	Universal inverse design of surfaces with thin nematic elastomer sheets. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7206-7211	11.5	135
218	Emetine inhibits Zika and Ebola virus infections through two molecular mechanisms: inhibiting viral replication and decreasing viral entry. *Cell Discovery*, **2018**, 4, 31	22.3	81
217	Grooving of nanoparticles using sublimable liquid crystal for transparent omniphobic surface. *Journal of Colloid and Interface Science*, **2018**, 513, 585-591	9.3	13
216	Hydrogel Micropillars: Clustering and Self-Recovery of Slanted Hydrogel Micropillars (Adv. Mater. Interfaces 24/2018). *Advanced Materials Interfaces*, **2018**, 5, 1870125	4.6	
215	Clustering and Self-Recovery of Slanted Hydrogel Micropillars. *Advanced Materials Interfaces*, **2018**, 5, 1801142	4.6	6
214	Shaping nanoparticle fingerprints at the interface of cholesteric droplets. *Science Advances*, **2018**, 4, eaat8597	14.3	17
213	Multistate and On-Demand Smart Windows. *Advanced Materials*, **2018**, 30, e1803847	24	77
212	Hollow mesoporous organosilica nanospheres templated with flower-like micelles of pentablock copolymers. *Journal of Colloid and Interface Science*, **2018**, 528, 124-134	9.3	13
211	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. *Nature*, **2018**, 557, 409-412	50.4	627
210	Medical Devices: Nonlinear Frameworks for Reversible and Pluripotent Wetting on Topographic Surfaces (Adv. Mater. 7/2017). *Advanced Materials*, **2017**, 29,	24	1
209	Arrangement and SERS Applications of Nanoparticle Clusters Using Liquid Crystalline Template. *ACS Applied Materials & Interfaces*, **2017**, 9, 7787-7792	9.5	31
208	Analytical Characterization of Methyl-□Cyclodextrin for Pharmacological Activity to Reduce Lysosomal Cholesterol Accumulation in Niemann-Pick Disease Type C1 Cells. *Assay and Drug Development Technologies*, **2017**, 15, 154-166	2.1	10
207	Separation of Oil-in-Water Emulsions Using Hydrophilic Electrospun Membranes with Anisotropic Pores. *Langmuir*, **2017**, 33, 5872-5878	4	35
206	Confined Assemblies of Colloidal Particles with Soft Repulsive Interactions. *Journal of the American Chemical Society*, **2017**, 139, 5095-5101	16.4	24

205	Programmable Kiri-Kirigami Metamaterials. *Advanced Materials*, **2017**, 29, 1604262	24	157
204	Nonlinear Frameworks for Reversible and Pluripotent Wetting on Topographic Surfaces. *Advanced Materials*, **2017**, 29, 1605078	24	15
203	Directional elastic wave propagation in high-aspect-ratio photoresist gratings: liquid infiltration and aging. *Nanoscale*, **2017**, 9, 2739-2747	7.7	3
202	Topography-guided buckling of swollen polymer bilayer films into three-dimensional structures. *Soft Matter*, **2017**, 13, 956-962	3.6	12
201	Shaping micro-clusters via inverse jamming and topographic close-packing of microbombs. *Nature Communications*, **2017**, 8, 721	17.4	7
200	Colloidal inks from bumpy colloidal nanoparticles for the assembly of ultrasmooth and uniform structural colors. *Nanoscale*, **2017**, 9, 17357-17363	7.7	26
199	Geometric Design of Scalable Forward Scatterers for Optimally Efficient Solar Transformers. *Advanced Materials*, **2017**, 29, 1702922	24	16
198	Highly Flexible, Multipixelated Thermosensitive Smart Windows Made of Tough Hydrogels. *ACS Applied Materials & Interfaces*, **2017**, 9, 33100-33106	9.5	61
197	Hierarchical membranes with size-controlled nanopores from photofluidization of electrospun azobenzene polymer fibers. *Journal of Materials Chemistry A*, **2017**, 5, 18762-18769	13	30
196	2D metal carbides (MXenes) in fibers. *Materials Today*, **2017**, 20, 481-482	21.8	20
195	Cuts Guided Deterministic Buckling in Arrays of Soft Parallel Plates for Multifunctionality. *ACS Applied Materials & Interfaces*, **2017**, 9, 29345-29354	9.5	6
194	Varying and unchanging whiteness on the wings of dusk-active and shade-inhabiting butterflies. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 7379-7384	11.5	16
193	A High Copy Suppressor Screen for Autophagy Defects in and Strains. *G3: Genes, Genomes, Genetics*, **2017**, 7, 333-341	3.2	2
192	Synergistic drug combination effectively blocks Ebola virus infection. *Antiviral Research*, **2017**, 137, 165-172	3.28	58
191	eSkin: Bioinspired Adaptive Materials 1 **2017**, 313-334		
190	Guided Folding of Nematic Liquid Crystal Elastomer Sheets into 3D via Patterned 1D Microchannels. *Advanced Materials*, **2016**, 28, 9637-9643	24	100
189	Around the corner: Colloidal assembly and wiring in groovy nematic cells. *Physical Review E*, **2016**, 93, 032705	2.4	19
188	Fabrication of Free-Standing, Self-Aligned, High-Aspect-Ratio Synthetic Ommatidia. *ACS Applied Materials & Interfaces*, **2016**, 8, 30671-30676	9.5	6

187	Production of Structural Colors with High Contrast and Wide Viewing Angles from Assemblies of Polypyrrole Black Coated Polystyrene Nanoparticles. *ACS Applied Materials & Interfaces*, **2016**, 8, 16289-95	9.5	66
186	UHRF1 overexpression is involved in cell proliferation and biochemical recurrence in prostate cancer after radical prostatectomy. *Journal of Experimental and Clinical Cancer Research*, **2016**, 35, 34	12.8	22
185	Spatially Selective Nucleation and Growth of Water Droplets on Hierarchically Patterned Polymer Surfaces. *Advanced Materials*, **2016**, 28, 1433-9	24	42
184	Buckling into single-handed chiral structures from pH-sensitive hydrogel membranes. *Extreme Mechanics Letters*, **2016**, 7, 49-54	3.9	10
183	Super-resolution optical microscopy by using dielectric microwires **2016**,		10
182	A transcriptional target of androgen receptor, miR-421 regulates proliferation and metabolism of prostate cancer cells. *International Journal of Biochemistry and Cell Biology*, **2016**, 73, 30-40	5.6	23
181	Static and dynamic elastic properties of fractal-cut materials. *Extreme Mechanics Letters*, **2016**, 6, 103-114	3.9	25
180	Highly efficient and selective isolation of rare tumor cells using a microfluidic chip with wavy-herringbone micro-patterned surfaces. *Analyst, The*, **2016**, 141, 2228-37	5	40
179	Liquid crystals: Material defect lines. *Nature Materials*, **2016**, 15, 10-1	27	3
178	A high-efficiency superhydrophobic plasma separator. *Lab on A Chip*, **2016**, 16, 553-60	7.2	67
177	Identification of androgen-responsive lncRNAs as diagnostic and prognostic markers for prostate cancer. *Oncotarget*, **2016**, 7, 60503-60518	3.3	72
176	Androgen-induced miR-135a acts as a tumor suppressor through downregulating RBAK and MMP11, and mediates resistance to androgen deprivation therapy. *Oncotarget*, **2016**, 7, 51284-51300	3.3	31
175	Fine Golden Rings: Tunable Surface Plasmon Resonance from Assembled Nanorods in Topological Defects of Liquid Crystals. *Advanced Materials*, **2016**, 28, 2731-6	24	33
174	Better Actuation Through Chemistry: Using Surface Coatings to Create Uniform Director Fields in Nematic Liquid Crystal Elastomers. *ACS Applied Materials & Interfaces*, **2016**, 8, 12466-72	9.5	17
173	Design of super-conformable, foldable materials via fractal cuts and lattice kirigami. *MRS Bulletin*, **2016**, 41, 130-138	3.2	45
172	Androgen-induced miR-27A acted as a tumor suppressor by targeting MAP2K4 and mediated prostate cancer progression. *International Journal of Biochemistry and Cell Biology*, **2016**, 79, 249-260	5.6	41
171	Repeated shape recovery of clustered nanopillars by mechanical pulling. *Journal of Materials Chemistry C*, **2016**, 4, 9608-9612	7.1	8
170	Autophagy in Saccharomyces cerevisiae requires the monomeric GTP-binding proteins, Arl1 and Ypt6. *Autophagy*, **2016**, 12, 1721-1737	10.2	25

169	Superhydrophobic Surfaces: Fabrication of All-Water-Based Self-Repairing Superhydrophobic Coatings Based on UV-Responsive Microcapsules (Adv. Funct. Mater. 7/2015). *Advanced Functional Materials*, **2015**, 25, 1160-1160	15.6	
168	A robust smart window: reversibly switching from high transparency to angle-independent structural color display. *Advanced Materials*, **2015**, 27, 2489-95	24	292
167	Centrifugation-assisted Assembly of Colloidal Silica into Crack-Free and Transferrable Films with Tunable Crystalline Structures. *Scientific Reports*, **2015**, 5, 12100	4.9	16
166	Fabrication of periodic nanoparticle clusters using a soft lithographic template. *Journal of Materials Chemistry C*, **2015**, 3, 4598-4602	7.1	15
165	Self-assembled materials. Supramolecular lattices from tetrahedral nanobuilding blocks. *Science*, **2015**, 348, 396-7	33.3	6
164	A multi-functional oil-water separator from a selectively pre-wetted superamphiphobic paper. *Chemical Communications*, **2015**, 51, 6149-52	5.8	103
163	Curvature-Driven, One-Step Assembly of Reconfigurable Smectic Liquid Crystal Compound Eye Lenses. *Advanced Optical Materials*, **2015**, 3, 1287-1292	8.1	43
162	Compartment fabrication of magneto-responsive Janus microrod particles. *Chemical Communications*, **2015**, 51, 1639-42	5.8	5
161	Directing the deformation paths of soft metamaterials with prescribed asymmetric units. *Advanced Materials*, **2015**, 27, 2747-52	24	42
160	Light-induced shape recovery of deformed shape memory polymer micropillar arrays with gold nanorods. *RSC Advances*, **2015**, 5, 30495-30499	3.7	45
159	Smectic Gardening on Curved Landscapes. *Langmuir*, **2015**, 31, 11135-42	4	12
158	Transparent and Superamphiphobic Surfaces from Mushroom-Like Micropillar Arrays. *ACS Applied Materials & Interfaces*, **2015**, 7, 24197-203	9.5	64
157	Synergistic assembly of nanoparticles in smectic liquid crystals. *Soft Matter*, **2015**, 11, 7367-75	3.6	14
156	Programming Tilting Angles in Shape Memory Polymer Janus Pillar Arrays with Unidirectional Wetting against the Tilting Direction. *Langmuir*, **2015**, 31, 9523-6	4	26
155	Fabrication of All-Water-Based Self-Repairing Superhydrophobic Coatings Based on UV-Responsive Microcapsules. *Advanced Functional Materials*, **2015**, 25, 1035-1041	15.6	280
154	Foldable supercapacitors from triple networks of macroporous cellulose fibers, single-walled carbon nanotubes and polyaniline nanoribbons. *Nano Energy*, **2015**, 11, 568-578	17.1	158
153	Bio-inspired responsive polymer pillar arrays. *MRS Communications*, **2015**, 5, 97-114	2.7	28
152	Mechanochromic Sensors: Elastoplastic Inverse Opals as Power-Free Mechanochromic Sensors for Force Recording (Adv. Funct. Mater. 38/2015). *Advanced Functional Materials*, **2015**, 25, 6022-6022	15.6	1

151	Design of Hierarchically Cut Hinges for Highly Stretchable and Reconfigurable Metamaterials with Enhanced Strength. *Advanced Materials*, **2015**, 27, 7181-90	24	119
150	Orthogonal Control of Stability and Tunable Dry Adhesion by Tailoring the Shape of Tapered Nanopillar Arrays. *Advanced Materials*, **2015**, 27, 7788-93	24	27
149	Elastoplastic Inverse Opals as Power-Free Mechanochromic Sensors for Force Recording. *Advanced Functional Materials*, **2015**, 25, 6041-6049	15.6	58
148	KDM1A triggers androgen-induced miRNA transcription via H3K4me2 demethylation and DNA oxidation. *Prostate*, **2015**, 75, 936-46	4.2	28
147	Algorithmic lattice kirigami: A route to pluripotent materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7449-53	11.5	103
146	Elastocapillary interactions on nematic films. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6336-40	11.5	20
145	Direct mapping of local director field of nematic liquid crystals at the nanoscale. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 15291-6	11.5	15
144	Transparent and Superamphiphobic Surfaces from One-Step Spray Coating of Stringed Silica Nanoparticle/Sol Solutions. *Particle and Particle Systems Characterization*, **2014**, 31, 763-770	3.1	113
143	Transforming One-Dimensional Nanowalls to Long-Range Ordered Two-Dimensional Nanowaves: Exploiting Buckling Instability and Nanofibers Effect in Holographic Lithography. *Advanced Functional Materials*, **2014**, 24, 2361-2366	15.6	9
142	Angle-independent colours from spray coated quasi-amorphous arrays of nanoparticles: combination of constructive interference and Rayleigh scattering. *Journal of Materials Chemistry C*, **2014**, 2, 4395	7.1	74
141	Buckling, symmetry breaking, and cavitation in periodically micro-structured hydrogel membranes. *Soft Matter*, **2014**, 10, 1392-9	3.6	36
140	Fabrication of high-aspect-ratio (up to 10) one-dimensional organic/inorganic hybrid nanogratings via holographic lithography. *Microelectronic Engineering*, **2014**, 128, 7-11	2.5	6
139	In Situ Synthesis of Hybrid Aerogels from Single-Walled Carbon Nanotubes and Polyaniline Nanoribbons as Free-Standing, Flexible Energy Storage Electrodes. *Chemistry of Materials*, **2014**, 26, 1678-1685	9.6	48
138	Spray coating of superhydrophobic and angle-independent coloured films. *Chemical Communications*, **2014**, 50, 2469-72	5.8	88
137	Anti-inflammatory loaded poly-lactic glycolic acid nanoparticle formulations to enhance myocardial gene transfer: an in-vitro assessment of a drug/gene combination therapeutic approach for direct injection. *Journal of Translational Medicine*, **2014**, 12, 171	8.5	13
136	Recent advances in wrinkle-based dry adhesion. *Soft Matter*, **2014**, 10, 5028-39	3.6	55
135	Spray-coating of superhydrophobic aluminum alloys with enhanced mechanical robustness. *Journal of Colloid and Interface Science*, **2014**, 423, 101-7	9.3	123
134	Tilted pillars on wrinkled elastomers as a reversibly tunable optical window. *Advanced Materials*, **2014**, 26, 4127-33	24	105

133	Identification of miR-133b and RB1CC1 as independent predictors for biochemical recurrence and potential therapeutic targets for prostate cancer. *Clinical Cancer Research*, **2014**, 20, 2312-25	12.9	53
132	The roles of monomeric GTP-binding proteins in macroautophagy in Saccharomyces cerevisiae. *International Journal of Molecular Sciences*, **2014**, 15, 18084-101	6.3	6
131	Engineering the shape and structure of materials by fractal cut. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17390-5	11.5	196
130	Spray Coating: Transparent and Superamphiphobic Surfaces from One-Step Spray Coating of Stringed Silica Nanoparticle/Sol Solutions (Part. Part. Syst. Charact. 7/2014). *Particle and Particle Systems Characterization*, **2014**, 31, 811-811	3.1	2
129	Making the cut: lattice kirigami rules. *Physical Review Letters*, **2014**, 113, 245502	7.4	107
128	Directed water shedding on high-aspect-ratio shape memory polymer micropillar arrays. *Advanced Materials*, **2014**, 26, 1283-8	24	117
127	Enhanced cell adhesion and alignment on micro-wavy patterned surfaces. *PLoS ONE*, **2014**, 9, e104502	3.7	52
126	Directing 3D Topological Defects in Smectic Liquid Crystals and Their Applications as an Emerging Class of Building Blocks. *Nanoscience and Technology*, **2014**, 35-68	0.6	3
125	Ring around the colloid. *Soft Matter*, **2013**, 9, 9099	3.6	23
124	Study of architectural responses of 3D periodic cellular materials. *Modelling and Simulation in Materials Science and Engineering*, **2013**, 21, 065018	2	9
123	Focal Conic Flower Textures at Curved Interfaces. *Physical Review X*, **2013**, 3,	9.1	12
122	Guided wrinkling in swollen, pre-patterned photoresist thin films with a crosslinking gradient. *Soft Matter*, **2013**, 9, 11007	3.6	41
121	Synthesis of dual-functional copolymer with orthogonally photosensitive groups. *Journal of Polymer Science Part A*, **2013**, 51, 1215-1222	2.5	3
120	Buckling-Based Strong Dry Adhesives Via Interlocking. *Advanced Functional Materials*, **2013**, 23, 3813-3823	13.6	70
119	Self-assembly of nanostructures towards transparent, superhydrophobic surfaces. *Journal of Materials Chemistry A*, **2013**, 1, 2955-2969	13	201
118	Synthesis of random copolymer based pH-responsive nanoparticles as drug carriers for cancer therapeutics. *Polymer Chemistry*, **2013**, 4, 3667	4.9	14
117	Microbullet assembly: interactions of oriented dipoles in confined nematic liquid crystal. *Liquid Crystals*, **2013**, 40, 1619-1627	2.3	31
116	Fabrication and assembly of magneto-responsive, anisotropic, and hybrid microparticles of variable size and shape. *Angewandte Chemie - International Edition*, **2013**, 52, 8160-4	16.4	14

115	Exploiting imperfections in the bulk to direct assembly of surface colloids. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18804-8	11.5	53
114	Enhanced Shear Adhesion by Mechanical Interlocking of Dual-Scaled Elastomeric Micropillars With Embedded Silica Particles. *Macromolecular Reaction Engineering*, **2013**, 7, 616-623	1.5	9
113	Topographically induced hierarchical assembly and geometrical transformation of focal conic domain arrays in smectic liquid crystals. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 34-9	11.5	56
112	Fabrication and Assembly of Magneto-Responsive, Anisotropic, and Hybrid Microparticles of Variable Size and Shape. *Angewandte Chemie*, **2013**, 125, 8318-8322	3.6	1
111	Identification of novel AR-targeted microRNAs mediating androgen signalling through critical pathways to regulate cell viability in prostate cancer. *PLoS ONE*, **2013**, 8, e56592	3.7	89
110	Switching periodic membranes via pattern transformation and shape memory effect. *Soft Matter*, **2012**, 8, 10322	3.6	80
109	Capillarity induced instability in responsive hydrogel membranes with periodic hole array. *Soft Matter*, **2012**, 8, 8088	3.6	28
108	Evaporative assembly of ordered microporous films and their hierarchical structures from amphiphilic random copolymers. *Soft Matter*, **2012**, 8, 11897	3.6	15
107	Curvature sorting of peripheral proteins on solid-supported wavy membranes. *Langmuir*, **2012**, 28, 12838-43	4	60
106	Wrinkling instabilities in polymer films and their applications. *Polymer International*, **2012**, 61, 1041-1047	3.3	118
105	Facile synthesis of nanoparticles via assembly of photopolymerized and self-crosslinked random copolymers in selective organic media. *Journal of Polymer Science Part A*, **2012**, 50, 3840-3847	2.5	3
104	Calcium carbonate composite hydrogel films: Particle packing and optical properties. *Polymer Engineering and Science*, **2012**, 52, 1317-1324	2.3	8
103	Exploiting Nanoroughness on Holographically Patterned Three-Dimensional Photonic Crystals. *Advanced Functional Materials*, **2012**, 22, 2980-2986	15.6	38
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