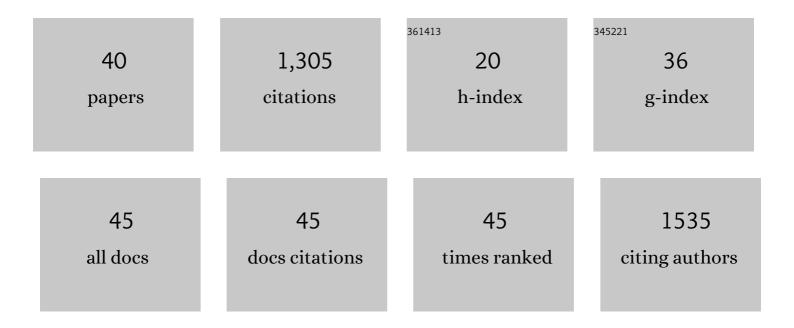
## Alexander Ryabchun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Motile behaviour of droplets in lipid systems. Nature Reviews Chemistry, 2022, 6, 377-388.	30.2	11
2	Acceleration of lipid reproduction by emergence of microscopic motion. Nature Communications, 2021, 12, 2959.	12.8	24
3	Light-Fueled Nanoscale Surface Waving in Chiral Liquid Crystal Networks. ACS Applied Materials & Interfaces, 2021, 13, 4777-4784.	8.0	16
4	Helix Inversion Controlled by Molecular Motors in Multistate Liquid Crystals. Advanced Materials, 2020, 32, e2004420.	21.0	48
5	Knotting a molecular strand can invert macroscopic effects of chirality. Nature Chemistry, 2020, 12, 939-944.	13.6	38
6	Reactive mesogens for ultraviolet-transparent liquid crystal polymer networks. Liquid Crystals, 2020, 47, 1569-1581.	2.2	2
7	Life-like motion driven by artificial molecular machines. Nature Reviews Chemistry, 2019, 3, 536-551.	30.2	220
8	Mechanical adaptability of artificial muscles from nanoscale molecular action. Nature Communications, 2019, 10, 4819.	12.8	57
9	Photocontrollable Deformations of Polymer Particles in Elastic Matrix. Advanced Optical Materials, 2019, 7, 1901486.	7.3	13
10	Polarization Gratings in Azobenzeneâ€Based Fully Liquid Crystalline Triblock Copolymer. Macromolecular Rapid Communications, 2019, 40, 1900412.	3.9	8
11	Dynamic Diffractive Patterns in Helix-Inverting Cholesteric Liquid Crystals. ACS Applied Materials & Interfaces, 2019, 11, 10895-10904.	8.0	24
12	Reorientation behavior in the helical motility of light-responsive spiral droplets. Nature Communications, 2019, 10, 5238.	12.8	43
13	Shape-Persistent Actuators from Hydrazone Photoswitches. Journal of the American Chemical Society, 2019, 141, 1196-1200.	13.7	135
14	Liquid crystal phase modulator integration on the TriPleX photonic platform. , 2019, , .		0
15	Cholesteric Liquid Crystal Materials for Tunable Diffractive Optics. Advanced Optical Materials, 2018, 6, 1800335.	7.3	160
16	Humidity-responsive actuators from integrating liquid crystal networks in an orienting scaffold. Soft Matter, 2017, 13, 8070-8075.	2.7	35
17	Fullâ€Polymer Cholesteric Composites for Transmission and Reflection Holographic Gratings. Advanced Optical Materials, 2017, 5, 1700314.	7.3	22
18	Holographic Structuring of Elastomer Actuator: First True Monolithic Tunable Elastomer Optics. Advanced Materials, 2016, 28, 10217-10223.	21.0	5

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19	Novel Effective Approach for the Fabrication of PDMSâ€Based Elastic Volume Gratings. Advanced Optical Materials, 2016, 4, 169-176.	7.3	31
20	Cholesteric Polymer Scaffolds Filled with Azobenzene-Containing Nematic Mixture with Phototunable Optical Properties. ACS Applied Materials & Interfaces, 2016, 8, 27227-27235.	8.0	24
21	Conventional elastomers doped with benzophenone derivatives as effective media for all-optical fabrication of tunable diffraction elements. RSC Advances, 2016, 6, 51791-51800.	3.6	4
22	Electroinduced Diffraction Gratings in Cholesteric Polymer with Phototunable Helix Pitch. Advanced Optical Materials, 2015, 3, 1462-1469.	7.3	25
23	Stable Selective Gratings in LC Polymer by Photoinduced Helix Pitch Modulation. ACS Applied Materials & amp; Interfaces, 2015, 7, 2554-2560.	8.0	18
24	Rotatable Diffraction Gratings Based on Cholesteric Liquid Crystals with Phototunable Helix Pitch. Advanced Optical Materials, 2015, 3, 1273-1279.	7.3	84
25	Photochromic Composite for Random Lasing Based on Porous Polypropylene Infiltrated with Azobenzene-Containing Liquid Crystalline Mixture. ACS Applied Materials & Interfaces, 2015, 7, 26595-26602.	8.0	12
26	Polarization holographic grating recording in the cholesteric azobenzene-containing films with the phototunable helix pitch. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 773-781.	2.1	8
27	Influence of the cation type on the DFB lasing performance of dye-doped azobenzene-containing polyelectrolytes. Journal of Materials Chemistry C, 2014, 2, 8546-8553.	5.5	11
28	Liquid Crystalline Azobenzene-Containing Polymer as a Matrix for Distributed Feedback Lasers. ACS Photonics, 2014, 1, 885-893.	6.6	13
29	New azobenzene-based chiral-photochromic substances with thermally stable Z-isomers and their use for the induction of a cholesteric mesophase with a phototunable helix pitch. Journal of Materials Chemistry C, 2014, 2, 8622-8629.	5.5	18
30	A novel generation of photoactive comb-shaped polyamides for the photoalignment of liquid crystals. Journal of Polymer Science Part A, 2013, 51, 4031-4041.	2.3	17
31	Laser-induced holographic light scattering in a liquid-crystalline azobenzene-containing polymer. Physical Review E, 2012, 85, 011704.	2.1	5
32	A Novel Type of Crown Etherâ€Containing Metal Ions Optical Sensors Based on Polymerâ€Stabilized Cholesteric Liquid Crystalline Films. Macromolecular Rapid Communications, 2012, 33, 1875-1881.	3.9	29
33	Dual photorecording on cholesteric azobenzene-containing LC polymer films using helix pitch phototuning and holographic grating recording. Journal of Materials Chemistry, 2012, 22, 6245.	6.7	29
34	Novel Generation of Liquid Crystalline Photoâ€Actuators Based on Stretched Porous Polyethylene Films. Macromolecular Rapid Communications, 2012, 33, 991-997.	3.9	39
35	Fluorescent and photo-optical properties of hydrogen-bonded polymer liquid-crystalline composites based on derivatives of stilbazole and crown ethers. Polymer Science - Series A, 2011, 53, 623-632.	1.0	3
36	Crownâ€ether and azobenzeneâ€containing liquid crystalline polymers: An influence of macromolecular architecture on optical properties and photoâ€orientation processes. Journal of Polymer Science Part A, 2011, 49, 625-633.	2.3	4

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37	Liquid crystals photoalignment by films of side-chain azobenzene-containing polymers with different molecular structure. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 218, 137-142.	3.9	29
38	Fluorescent and photooptical properties of H-bonded LC composites based on stilbazole derivative. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 22-29.	3.9	6
39	Photoinduced reorientation processes in thin films of photochromic LC polymers on substrates with a photocontrollable command surface. Polymer Science - Series A, 2010, 52, 812-823.	1.0	5
40	Ordering phenomena and photoorientation processes in photochromic thin films of LC chiral azobenzene-containing polymer systems. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 206, 46-52.	3.9	24