Moritz K Kreysing

List of Publications by Year
in descending order

30	2,473	393982 19	552369 26
papers	citations	h-index	g-index

36	36	36	3608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nuclear Architecture of Rod Photoreceptor Cells Adapts to Vision in Mammalian Evolution. Cell, 2009, 137, 356-368.	13.5	683
2	Compartmentalised RNA catalysis in membrane-free coacervate protocells. Nature Communications, 2018, 9, 3643.	5.8	225
3	Acetylation of intrinsically disordered regions regulates phase separation. Nature Chemical Biology, 2019, 15, 51-61.	3.9	190
4	Bioâ€Inspired Bandâ€Gap Tunable Elastic Optical Multilayer Fibers. Advanced Materials, 2013, 25, 2239-2245.	11.1	176
5	Heat flux across an open pore enables the continuous replication and selection of oligonucleotides towards increasing length. Nature Chemistry, 2015, 7, 203-208.	6.6	151
6	Non-invasive perturbations of intracellular flow reveal physical principles of cell organization. Nature Cell Biology, 2018, 20, 344-351.	4.6	130
7	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. Cell, 2020, 181, 818-831.e19.	13.5	130
8	The optical cell rotator. Optics Express, 2008, 16, 16984.	1.7	119
9	Reconfigurable and responsive droplet-based compound micro-lenses. Nature Communications, 2017, 8, 14673.	5.8	119
10	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. Science, 2012, 336, 1700-1703.	6.0	71
11	Local thermodynamics govern formation and dissolution ofCaenorhabditiselegans P granule condensates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	64
12	Dynamic operation of optical fibres beyond the single-mode regime facilitates the orientation of biological cells. Nature Communications, 2014, 5, 5481.	5.8	60
13	Highly sensitive force measurements in an optically generated, harmonic hydrodynamic trap. ELight, 2021, 1, .	11.9	60
14	Regulated changes in material properties underlie centrosome disassembly during mitotic exit. Journal of Cell Biology, 2020, 219, .	2.3	49
15	Charge-density reduction promotes ribozyme activity in RNAâ€“peptide coacervates via RNA fluidization and magnesium partitioning. Nature Chemistry, 2022, 14, 407-416.	6.6	41
16	Physical insight into light scattering by photoreceptor cell nuclei. Optics Letters, 2010, 35, 2639.	1.7	38
17	A hydraulic instability drives the cell death decision in the nematode germline. Nature Physics, 2021, 17, 920-925.	6.5	38
18	Grouped retinae and tapetal cups in some Teleostian fish: Occurrence, structure, and function. Progress in Retinal and Eye Research, 2014, 38, 43-69.	7.3	31

#	Article	IF	Citations
19	Biobeamâ€"Multiplexed wave-optical simulations of light-sheet microscopy. PLoS Computational Biology, 2018, 14, e1006079.	1.5	26
20	Actuation of Janus Emulsion Droplets via Optothermally Induced Marangoni Forces. Physical Review Letters, 2021, 127, 144503.	2.9	17
21	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. ELife, 2019, 8, .	2.8	16
22	Direct observation of light focusing by single photoreceptor cell nuclei. Optics Express, 2014, 22, 11043.	1.7	14
23	Feedback-based positioning and diffusion suppression of particles via optical control of thermoviscous flows. Optics Express, 2021, 29, 30272.	1.7	6
24	Recapitulating Evolutionary Divergence in a SingleCis-Regulatory Element Is Sufficient to Cause Expression Changes of the Lens GeneTdrd7. Molecular Biology and Evolution, 2021, 38, 380-392.	3.5	4
25	Probing the Functional Role of Physical Motion in Development. Developmental Cell, 2019, 51, 135-144.	3.1	3
26	Optical plasticity of mammalian cells. Journal of Biophotonics, 2021, 14, e202000457.	1.1	3
27	Dual-beam laser traps in biology and medicine: when one beam is not enough. , 2010, , .		2
28	How to apply FLUCS in single cells and living embryos. Protocol Exchange, 0, , .	0.3	2
29	Biological inspiration in optics and photonics: harnessing nature's light manipulation strategies for multifunctional optical materials (Conference Presentation). , 2016, , .		0
30	Bi-phase emulsion droplets as dynamic fluid optical systems. EPJ Web of Conferences, 2019, 215, 13003.	0.1	0