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	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
2	Optical plasticity of mammalian cells. Journal of Biophotonics, 2021, 14, e202000457.	1.1	3
3	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
4	A hydraulic instability drives the cell death decision in the nematode germline. Nature Physics, 2021, 17, 920-925.	6.5	38
5	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
6	Feedback-based positioning and diffusion suppression of particles via optical control of thermoviscous flows. Optics Express, 2021, 29, 30272.	1.7	6
7	Actuation of Janus Emulsion Droplets via Optothermally Induced Marangoni Forces. Physical Review Letters, 2021, 127, 144503.	2.9	17
8	Highly sensitive force measurements in an optically generated, harmonic hydrodynamic trap. ELight, 2021, 1, .	11.9	60
9	Regulated changes in material properties underlie centrosome disassembly during mitotic exit. Journal of Cell Biology, 2020, 219, .	2.3	49
10	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. Cell, 2020, 181, 818-831.e19.	13.5	130
11	Bi-phase emulsion droplets as dynamic fluid optical systems. EPJ Web of Conferences, 2019, 215, 13003.	0.1	0
12	Probing the Functional Role of Physical Motion in Development. Developmental Cell, 2019, 51, 135-144.	3.1	3
13	Acetylation of intrinsically disordered regions regulates phase separation. Nature Chemical Biology, 2019, 15, 51-61.	3.9	190
14	Rod nuclear architecture determines contrast transmission of the retina and behavioral sensitivity in mice. ELife, 2019, 8, .	2.8	16
15	Non-invasive perturbations of intracellular flow reveal physical principles of cell organization. Nature Cell Biology, 2018, 20, 344-351.	4.6	130
16	Compartmentalised RNA catalysis in membrane-free coacervate protocells. Nature Communications, 2018, 9, 3643.	5.8	225
17	Biobeamâ€”Multiplexed wave-optical simulations of light-sheet microscopy. PLoS Computational Biology, 2018, 14, e1006079.	1.5	26
18	Reconfigurable and responsive droplet-based compound micro-lenses. Nature Communications, 2017, 8, 14673.	5.8	119

#	Article	IF	Citations
19	Biological inspiration in optics and photonics: harnessing nature's light manipulation strategies for multifunctional optical materials (Conference Presentation). , 2016, , .		0
20	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
21	Dynamic operation of optical fibres beyond the single-mode regime facilitates the orientation of biological cells. Nature Communications, 2014, 5, 5481.	5.8	60
22	Direct observation of light focusing by single photoreceptor cell nuclei. Optics Express, 2014, 22, 11043.	1.7	14
23	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
24	Bioâ€Inspired Bandâ€Gap Tunable Elastic Optical Multilayer Fibers. Advanced Materials, 2013, 25, 2239-2245.	11.1	176
25	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. Science, 2012, 336, 1700-1703.	6.0	71
26	Dual-beam laser traps in biology and medicine: when one beam is not enough. , 2010, , .		2
27	Physical insight into light scattering by photoreceptor cell nuclei. Optics Letters, 2010, 35, 2639.	1.7	38
28	Nuclear Architecture of Rod Photoreceptor Cells Adapts to Vision in Mammalian Evolution. Cell, 2009, 137, 356-368.	13.5	683
29	The optical cell rotator. Optics Express, 2008, 16, 16984.	1.7	119
30	How to apply FLUCS in single cells and living embryos. Protocol Exchange, 0, , .	0.3	2