Luay M Almassalha

List of Publications by Year
in descending order

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Version: 2024-02-01

25 papers	1,097 citations	687363 13 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	1563 citing authors

#	Article	IF	Citations
1	Analysis of three-dimensional chromatin packing domains by chromatin scanning transmission electron microscopy (ChromSTEM). Scientific Reports, 2022, 12, .	3.3	18
2	Nanoscale chromatin imaging and analysis platform bridges 4D chromatin organization with molecular function. Science Advances, 2021, 7, .	10.3	37
3	Dynamic Crowding Regulates Transcription. Biophysical Journal, 2020, 118, 2117-2129.	0.5	15
4	Disordered chromatin packing regulates phenotypic plasticity. Science Advances, 2020, 6, eaax6232.	10.3	34
5	Physical and data structure of 3D genome. Science Advances, 2020, 6, eaay4055.	10.3	32
6	Physicochemical mechanotransduction alters nuclear shape and mechanics via heterochromatin formation. Molecular Biology of the Cell, 2019, 30, 2320-2330.	2.1	77
7	Preservation of cellular nano-architecture by the process of chemical fixation for nanopathology. PLoS ONE, 2019, 14, e0219006.	2.5	4
8	Spectral contrast optical coherence tomography angiography enables single-scan vessel imaging. Light: Science and Applications, 2019, 8, 7.	16.6	24
9	Physicochemical mechanotransduction alters nuclear shape and mechanics via heterochromatin formation. Molecular Biology of the Cell, 2019, , mbc.E19-05-0286.	2.1	6
10	Multimodal interference-based imaging of nanoscale structure and macromolecular motion uncovers UV induced cellular paroxysm. Nature Communications, 2019, 10, 1652.	12.8	16
11	Measuring Nanoscale Chromatin Heterogeneity with Partial Wave Spectroscopic Microscopy. Methods in Molecular Biology, 2018, 1745, 337-360.	0.9	10
12	Correlating colorectal cancer risk with field carcinogenesis progression using partial wave spectroscopic microscopy. Cancer Medicine, 2018, 7, 2109-2120.	2.8	12
13	Chromatin histone modifications and rigidity affect nuclear morphology independent of lamins. Molecular Biology of the Cell, 2018, 29, 220-233.	2.1	257
14	Label free localization of nanoparticles in live cancer cells using spectroscopic microscopy. Nanoscale, 2018, 10, 19125-19130.	5.6	3
15	Colocalization of cellular nanostructure using confocal fluorescence and partial wave spectroscopy. Journal of Biophotonics, 2017, 10, 377-384.	2.3	13
16	The transformation of the nuclear nanoarchitecture in human field carcinogenesis. Future Science OA, 2017, 3, FSO206.	1.9	8
17	The effects of chemical fixation on the cellular nanostructure. Experimental Cell Research, 2017, 358, 253-259.	2.6	64
18	Macrogenomic engineering via modulation of the scaling of chromatin packing density. Nature Biomedical Engineering, 2017, 1, 902-913.	22.5	47

#	Article	IF	Citations
19	Nuclear Blebbing Solely as a Function of Chromatin Compaction State. FASEB Journal, 2017, 31, lb237.	0.5	0
20	Super-resolution spectroscopic microscopy via photon localization. Nature Communications, 2016, 7, 12290.	12.8	91
21	The Greater Genomic Landscape: The Heterogeneous Evolution of Cancer. Cancer Research, 2016, 76, 5605-5609.	0.9	25
22	Label-free imaging of the native, living cellular nanoarchitecture using partial-wave spectroscopic microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6372-E6381.	7.1	56
23	Higher Order Chromatin Modulator Cohesin SA1 Is an Early Biomarker for Colon Carcinogenesis: Race-Specific Implications. Cancer Prevention Research, 2016, 9, 844-854.	1.5	11
24	Superresolution intrinsic fluorescence imaging of chromatin utilizing native, unmodified nucleic acids for contrast. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9716-9721.	7.1	56
25	Clostridium difficile Ribotype Does Not Predict Severe Infection. Clinical Infectious Diseases, 2012, 55, 1661-1668.	5.8	172