

Yuval Garini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6598536/publications.pdf>

Version: 2024-02-01

114
papers

6,065
citations

159358

30
h-index

71532

76
g-index

117
all docs

117
docs citations

117
times ranked

5796
citing authors

#	ARTICLE	IF	CITATIONS
1	Multicolor Spectral Karyotyping of Human Chromosomes. <i>Science</i> , 1996, 273, 494-497.	6.0	1,699
2	Strange kinetics of single molecules in living cells. <i>Physics Today</i> , 2012, 65, 29-35.	0.3	476
3	Transient Anomalous Diffusion of Telomeres in the Nucleus of Mammalian Cells. <i>Physical Review Letters</i> , 2009, 103, 018102.	2.9	415
4	Spectral imaging: Principles and applications. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006, 69A, 735-747.	1.1	350
5	Loss of lamin A function increases chromatin dynamics in the nuclear interior. <i>Nature Communications</i> , 2015, 6, 8044.	5.8	230
6	Built-in Quantum Dot Antennas in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2010, 4, 1293-1298.	7.3	191
7	Single-allele analysis of transcription kinetics in living mammalian cells. <i>Nature Methods</i> , 2010, 7, 631-633.	9.0	155
8	From micro to nano: recent advances in high-resolution microscopy. <i>Current Opinion in Biotechnology</i> , 2005, 16, 3-12.	3.3	148
9	c-Myc induces chromosomal rearrangements through telomere and chromosome remodeling in the interphase nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9613-9618.	3.3	142
10	Universal Algorithm for Identification of Fractional Brownian Motion. A Case of Telomere Subdiffusion. <i>Biophysical Journal</i> , 2012, 103, 1839-1847.	0.2	133
11	The three-dimensional organization of telomeres in the nucleus of mammalian cells. <i>BMC Biology</i> , 2004, 2, 12.	1.7	122
12	Guidelines for the Fitting of Anomalous Diffusion Mean Square Displacement Graphs from Single Particle Tracking Experiments. <i>PLoS ONE</i> , 2015, 10, e0117722.	1.1	115
13	Sleep increases chromosome dynamics to enable reduction of accumulating DNA damage in single neurons. <i>Nature Communications</i> , 2019, 10, 895.	5.8	100
14	Fourier transform multipixel spectroscopy for quantitative cytology. <i>Journal of Microscopy</i> , 1996, 182, 133-140.	0.8	98
15	Improved estimation of anomalous diffusion exponents in single-particle tracking experiments. <i>Physical Review E</i> , 2013, 87, 052713.	0.8	97
16	Fourier Transform Multipixel Spectroscopy and Spectral Imaging of Protoporphyrin in Single Melanoma Cells. <i>Photochemistry and Photobiology</i> , 1996, 63, 608-614.	1.3	85
17	Spectral karyotyping. <i>Bioimaging</i> , 1996, 4, 65-72.	1.8	85
18	The significance of telomeric aggregates in the interphase nuclei of tumor cells. <i>Journal of Cellular Biochemistry</i> , 2006, 97, 904-915.	1.2	80

#	ARTICLE	IF	CITATIONS
19	The nuclear lamina promotes telomere aggregation and centromere peripheral localization during senescence of human mesenchymal stem cells. <i>Journal of Cell Science</i> , 2008, 121, 4018-4028.	1.2	80
20	Fabrication of nanofluidic devices using glass-to-glass anodic bonding. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 521-527.	2.0	66
21	Mating Regulates Neuromodulator Ensembles at Nerve Termini Innervating the <i>Drosophila</i> Reproductive Tract. <i>Current Biology</i> , 2014, 24, 731-737.	1.8	66
22	Measuring the Conformation and Persistence Length of Single-Stranded DNA Using a DNA Origami Structure. <i>Nano Letters</i> , 2018, 18, 6703-6709.	4.5	66
23	Ergodicity convergence test suggests telomere motion obeys fractional dynamics. <i>Physical Review E</i> , 2011, 83, 041919.	0.8	65
24	Exploring chromatin organization mechanisms through its dynamic properties. <i>Nucleus</i> , 2016, 7, 27-33.	0.6	63
25	Estimating the anomalous diffusion exponent for single particle tracking data with measurement errors - An alternative approach. <i>Scientific Reports</i> , 2015, 5, 11306.	1.6	60
26	Size-dependent trajectories of DNA macromolecules due to insulative dielectrophoresis in submicrometer-deep fluidic channels. <i>Biomicrofluidics</i> , 2008, 2, 24103.	1.2	48
27	Oncogenic Remodeling of the Three-Dimensional Organization of the Interphase Nucleus: c-Myc Induces Telomeric Aggregates Whose Formation Precedes Chromosomal Rearrangements. <i>Cell Cycle</i> , 2005, 4, 1327-1331.	1.3	46
28	Three-dimensional Nuclear Telomere Architecture Is Associated with Differential Time to Progression and Overall Survival in Glioblastoma Patients. <i>Neoplasia</i> , 2010, 12, 183-191.	2.3	46
29	Changes in lamina structure are followed by spatial reorganization of heterochromatic regions in caspase-8-activated human mesenchymal stem cells. <i>Journal of Cell Science</i> , 2006, 119, 4247-4256.	1.2	32
30	Dynamic analysis of a diffusing particle in a trapping potential. <i>Physical Review E</i> , 2013, 87, 022716.	0.8	31
31	The localization and photosensitization of modified chlorin photosensitizers in artificial membranes. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 354-361.	1.6	30
32	Spectral Imaging of Multi-Color Chromogenic Dyes in Pathological Specimens. <i>Analytical Cellular Pathology</i> , 2001, 22, 133-142.	2.1	29
33	Fourier transformed spectral bio-imaging for studying the intracellular fate of liposomes. , 2004, 57A, 10-21.		28
34	Force-free measurements of the conformations of DNA molecules tethered to a wall. <i>Physical Review E</i> , 2011, 83, 011916.	0.8	28
35	Quantifying the transcriptional output of single alleles in single living mammalian cells. <i>Nature Protocols</i> , 2013, 8, 393-408.	5.5	27
36	The proteolysis adaptor, NblA, is essential for degradation of the core pigment of the cyanobacterial light-harvesting complex. <i>Plant Journal</i> , 2015, 83, 845-852.	2.8	27

#	ARTICLE	IF	CITATIONS
37	HU Protein Induces Incoherent DNA Persistence Length. <i>Biophysical Journal</i> , 2011, 100, 784-790.	0.2	26
38	Live Cell Imaging of Bioorthogonally Labelled Proteins Generated With a Single Pyrrolysine tRNA Gene. <i>Scientific Reports</i> , 2018, 8, 14527.	1.6	25
39	Alterations of centromere positions in nuclei of immortalized and malignant mouse lymphocytes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 386-392.	1.1	24
40	Imaging within single NPCs reveals NXF1's role in mRNA export on the cytoplasmic side of the pore. <i>Journal of Cell Biology</i> , 2019, 218, 2962-2981.	2.3	24
41	The proteolysis adaptor, <i>scpN</i> , initiates protein pigment degradation by interacting with the cyanobacterial light-harvesting complexes. <i>Plant Journal</i> , 2014, 79, 118-126.	2.8	22
42	Distinct 3D Structural Patterns of Lamin A/C Expression in Hodgkin and Reed-Sternberg Cells. <i>Cancers</i> , 2018, 10, 286.	1.7	22
43	LAP2alpha maintains a mobile and low assembly state of A-type lamins in the nuclear interior. <i>ELife</i> , 2021, 10, .	2.8	20
44	Genome organization in the nucleus: From dynamic measurements to a functional model. <i>Methods</i> , 2017, 123, 128-137.	1.9	19
45	Telomeric aggregates and end-to-end chromosomal fusions require myc box II. <i>Oncogene</i> , 2007, 26, 1398-1406.	2.6	18
46	Segmentation and analysis of the three-dimensional redistribution of nuclear components in human mesenchymal stem cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 816-824.	1.1	18
47	Chromatin Viscoelasticity Measured by Local Dynamic Analysis. <i>Biophysical Journal</i> , 2020, 118, 2258-2267.	0.2	18
48	Centromeres in cell division, evolution, nuclear organization and disease. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 2040-2058.	1.2	17
49	Chromatin dynamics governed by a set of nuclear structural proteins. <i>Genes Chromosomes and Cancer</i> , 2019, 58, 437-451.	1.5	17
50	Preparation of homogeneous samples of double-labelled protein suitable for single-molecule FRET measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5983-5991.	1.9	16
51	Measuring the wavelength-dependent divergence of transmission through sub-wavelength hole-arrays by spectral imaging. <i>Optics Express</i> , 2006, 14, 9477.	1.7	15
52	Direct Transfer of Viral and Cellular Proteins from Varicella-Zoster Virus-Infected Non-Neuronal Cells to Human Axons. <i>PLoS ONE</i> , 2015, 10, e0126081.	1.1	15
53	Photoinduced intersubband absorption in barrier doped multi-quantum-wells. <i>Superlattices and Microstructures</i> , 1990, 7, 287-290.	1.4	11
54	Spectral karyotyping. <i>Bioimaging</i> , 1996, 4, 65-72.	1.8	11

#	ARTICLE	IF	CITATIONS
55	Novel automated three-dimensional genome scanning based on the nuclear architecture of telomeres. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 159-166.	1.1	11
56	Uniform Contraction-Expansion Description of Relative Centromere and Telomere Motion. <i>Biophysical Journal</i> , 2015, 109, 1454-1462.	0.2	11
57	Electroosmotic flow analysis of a branched U-turn nanofluidic device. <i>Lab on A Chip</i> , 2005, 5, 1067.	3.1	10
58	Tethered particle motion mediated by scattering from gold nanoparticles and darkfield microscopy. <i>Journal of Nanophotonics</i> , 2009, 3, 031795.	0.4	9
59	Single-site transcription rates through fitting of ensemble-averaged data from fluorescence recovery after photobleaching: A fat-tailed distribution. <i>Physical Review E</i> , 2015, 92, 032715.	0.8	8
60	The Dynamics of Lamin a During the Cell Cycle. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 705595.	1.6	8
61	3D restoration with multiple images acquired by a modified conventional microscope. <i>Microscopy Research and Technique</i> , 2004, 64, 113-125.	1.2	7
62	LEDs for fluorescence microscopy. , 2004, , .		7
63	Rapid microscopy measurement of very large spectral images. <i>Optics Express</i> , 2016, 24, 9511.	1.7	7
64	Optically induced intersubband absorption in the presence of a two-dimensional electron gas in quantum wells. <i>Physical Review B</i> , 1993, 48, 4456-4459.	1.1	6
65	A novel concept for a mid-field microscope. , 2005, 5703, 118.		6
66	Spectral Imaging: Methods, Design, and Applications. <i>Biological and Medical Physics Series</i> , 2013, , 111-161.	0.3	6
67	Single-Particle Tracking for Studying the Dynamic Properties of Genomic Regions in Live Cells. <i>Methods in Molecular Biology</i> , 2013, 1042, 139-151.	0.4	6
68	Toward the development of a three-dimensional mid-field microscope. , 2004, 5327, 115.		5
69	Studies of Single Molecules in their Natural Form. <i>Israel Journal of Chemistry</i> , 2009, 49, 283-291.	1.0	5
70	Translocation frequencies and chromosomal proximities for selected mouse chromosomes in primary B lymphocytes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 276-283.	1.1	5
71	Automatic classification of cancer cells in multispectral microscopic images of lymph node samples. , 2016, 2016, 3973-3976.		5
72	S-phase transcriptional buffering quantified on two different promoters. <i>Life Science Alliance</i> , 2018, 1, e201800086.	1.3	5

#	ARTICLE	IF	CITATIONS
73	<title>New compact-design interferometer-based spectral imaging system for biomedical applications</title>. , 1998, 3261, 313.		4
74	Gold nanoparticles: a novel application of spectral imaging in proteomics – preliminary results. , 2005, 5694, 82.		4
75	Multiprobe NSOM fluorescence. Nanophotonics, 2014, 3, 117-124.	2.9	4
76	The role of near-wall drag effects in the dynamics of tethered DNA under shear flow. Soft Matter, 2018, 14, 2219-2226.	1.2	4
77	Spectral Karyotyping in Clinical and Tumor Cytogenetics. , 1999, , 416-438.		4
78	Photoinduced intersubband absorption in n-type well- and barrier-doped quantum wells. Surface Science, 1992, 263, 561-564.	0.8	3
79	Exciton states and LO-phonon resonant Raman scattering in CdTe/ZnTe superlattices. Journal of Crystal Growth, 1990, 101, 783-786.	0.7	2
80	Optical detection of electrokinetically manipulated single molecules in a nanofluidic chip. , 2005, , .		2
81	A new optical method for characterizing single molecule interactions based on dark field microscopy. , 2007, , .		2
82	Fabrication and optical characterization of nano-hole arrays in gold and gold/palladium films on glass. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2007, 221, 107-114.	0.1	2
83	Plasmonic Scattering as an Efficient Tool for a Force-Free Technique to Follow Single DNA Molecules. The Open Optics Journal, 2011, 5, 12-16.	0.1	2
84	Resonant Raman scattering within an inhomogeneously broadened exciton band in semiconductors. Journal of Luminescence, 1990, 45, 9-12.	1.5	1
85	Optical detection of single molecules in nanofluidic chips. , 2004, , .		1
86	Sub-wavelength and non-periodic holes array based fully lensless imager. Optics Communications, 2011, 284, 3509-3517.	1.0	1
87	Electrostatic effects in living cells. Physics Today, 2013, 66, 11-11.	0.3	1
88	Cancer detection from stained biopsies using high-speed spectral imaging. Biomedical Optics Express, 2022, 13, 2503.	1.5	1
89	Conformation of ring single-stranded DNA measured by DNA origami structures. Biophysical Journal, 2022, , .	0.2	1
90	Photoinduced intersubband absorption in n-doped quantum wells. Journal of Luminescence, 1992, 53, 288-292.	1.5	0

#	ARTICLE	IF	CITATIONS
91	Resonant Raman scattering mediated by excitons in CdTe/CdZnTe multiple quantum wells. Journal of Luminescence, 1992, 53, 348-350.	1.5	0
92	Long lived photoexcited electron-hole pairs in modulation doped GaAs/AlGaAs quantum wells studied by intersubband spectroscopy. Solid-State Electronics, 1994, 37, 1199-1202.	0.8	0
93	<title>Novel spectral bioimaging system as an imaging oximeter in intact rat brain</title>. , 1996, , .		0
94	Three-dimensional analysis tool for segmenting and measuring the structure of telomeres in mammalian nuclei. , 2005, , .		0
95	Advances in the development of a novel method to be used in proteomics using gold nanobeads. , 2006, , .		0
96	Telomeres Diffusion Study Implies on A Self-Organization Mechanism of the Genome in the Nucleus. Biophysical Journal, 2010, 98, 213a-214a.	0.2	0
97	Force-Free Three-Dimensional Measurements of DNA Conformations Reveals Its Behavior Close to a Wall. Biophysical Journal, 2011, 100, 151a.	0.2	0
98	Novel approaches for near and far field super-resolved imaging. , 2011, , .		0
99	Nano- and Biophotonics. Journal of Atomic, Molecular, and Optical Physics, 2012, 2012, 1-1.	0.5	0
100	Three Dimensional Tethered Particle Motion for DNA-Protein Interactions Studies. Biophysical Journal, 2012, 102, 386a.	0.2	0
101	Protein-DNA Interactions Studies with Single Tethered Molecule Techniques. , 0, , .		0
102	Study of Nuclear Organization through the Dynamic Properties of Chromatin. Biophysical Journal, 2013, 104, 582a.	0.2	0
103	A Novel Method for Dynamic Analysis of Single-Molecule Experiments in Trapping Potentials. Biophysical Journal, 2013, 104, 211a.	0.2	0
104	Optical method for studying DNA-protein interactions at the single-molecule level. , 2013, , .		0
105	Studying Protein-DNA Dynamics and Protein Unfolding Using a Force-Free Single-Molecule Technique. Biophysical Journal, 2014, 106, 21a.	0.2	0
106	Genome Organization in the Nucleus Explored by Dynamic Live-Imaging Methods. Biophysical Journal, 2014, 106, 78a.	0.2	0
107	Molecular Mechanism for Genome Organization in the Eukaryotic Nucleus. Biophysical Journal, 2016, 110, 65a.	0.2	0
108	Novel system for measuring giant spectral images and its application for cancer detection. Proceedings of SPIE, 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
109	The Genome in the Nucleus: Snaky, Soft and Well-Organized. Biophysical Journal, 2017, 112, 476a.	0.2	0
110	Rapid Spectral Imaging of Very Large Microscopy Images. Biophysical Journal, 2017, 112, 586a.	0.2	0
111	3D Imaging of Hopping Molecules. Physics Magazine, 2017, 10, .	0.1	0
112	Time Resolved Intensity Photobleaching - A Novel Method for Studying Proteins in Live Cells. Biophysical Journal, 2018, 114, 538a.	0.2	0
113	Diffuion Behavior of Supramolecular Protein Assemblies in the Living Cell Nucleus. Biophysical Journal, 2019, 116, 69a.	0.2	0
114	Measuring the Conformation of Single Stranded DNA using a DNA Origami Nano-Structure. Biophysical Journal, 2019, 116, 33a.	0.2	0