Thomas M Jovin

List of Publications by Year
in descending order

110 papers	9,555 citations	53794 45 h-index	37204 96 g-index
115 all docs	115 docs citations	115 times ranked	10722 citing authors

#	Article	IF	Citations
1	FRET imaging. Nature Biotechnology, 2003, 21, 1387-1395.	17.5	1,763
2	Quantum dot ligands provide new insights into erbB/HER receptorâ€“mediated signal transduction. Nature Biotechnology, 2004, 22, 198-203.	17.5	796
3	Release of long-range tertiary interactions potentiates aggregation of natively unstructured Î±-synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1430-1435.	7.1	708
4	Dependence of Î±-Synuclein Aggregate Morphology on Solution Conditions. Journal of Molecular Biology, 2002, 322, 383-393.	4.2	487
5	Diheteroarylethenes as Thermally Stable Photoswitchable Acceptors in Photochromic Fluorescence Resonance Energy Transfer (pcFRET). Journal of the American Chemical Society, 2002, 124, 7481-7489.	13.7	384
6	Impact of the Acidic C-Terminal Region Comprising Amino Acids 109â^’140 on Î±-Synuclein Aggregation in Vitroâ€. Biochemistry, 2004, 43, 16233-16242.	2.5	317
7	NMR of Î±-synucleinâ€“polyamine complexes elucidates the mechanism and kinetics of induced aggregation. EMBO Journal, 2004, 23, 2039-2046.	7.8	231
8	Reaching out for signals. Journal of Cell Biology, 2005, 170, 619-626.	5.2	220
9	Dynamic Fluorescence Anisotropy Imaging Microscopy inthe Frequency Domain (rFLIM). Biophysical Journal, 2002, 83, 1631-1649.	0.5	201
10	Lipid rafts and the local density of ErbB proteins influence the biological role of homo- and heteroassociations of ErbB2. Journal of Cell Science, 2002, 115, 4251-4262.	2.0	167
11	Rapid Self-assembly of Î±-Synuclein Observed by In Situ Atomic Force Microscopy. Journal of Molecular Biology, 2004, 340, 127-139.	4.2	165
12	Cellular Polyamines Promote the Aggregation of Î±-Synuclein. Journal of Biological Chemistry, 2003, 278, 3235-3240.	3.4	161
13	EGFP and DsRed expressing cultures of Escherichia coli imaged by confocal, two-photon and fluorescence lifetime microscopy. FEBS Letters, 2000, 479, 131-135.	2.8	156
14	Glycation potentiates Î±-synuclein-associated neurodegeneration in synucleinopathies. Brain, 2017, 140, 1399-1419.	7.6	153
15	Influence of Gold Nanoparticles on the Kinetics of Î±-Synuclein Aggregation. Nano Letters, 2013, 13, 6156-6163.	9.1	127
16	Fluorescence imaging of amyloid formation in living cells by a functional, tetracysteine-tagged Î±-synuclein. Nature Methods, 2007, 4, 345-351.	19.0	126
17	Comparison of fixation protocols for adherent cultured cells applied to a GFP fusion protein of the epidermal growth factor receptor. Cytometry, 1999, 35, 353-362.	1.8	116
18	Photoswitchable Water-Soluble Quantum Dots: pcFRET Based on Amphiphilic Photochromic Polymer Coating. ACS Nano, 2011, 5, 2795-2805.	14.6	116

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19	Fluorescence lifetime imaging: multi-point calibration, minimum resolvable differences, and artifact suppression. Cytometry, 2001, 43, 248-260.	1.8	112
20	Fluorescent Ratiometric MFC Probe Sensitive to Early Stages of Î±-Synuclein Aggregation. Journal of the American Chemical Society, 2010, 132, 7860-7861.	13.7	95
21	Small interfering RNAs suppress the expression of endogenous and GFP-fused epidermal growth factor receptor (erbB1) and induce apoptosis in erbB1-overexpressing cells. Experimental Cell Research, 2003, 285, 39-49.	2.6	93
22	Specificity and Kinetics of Î±-Synuclein Binding to Model Membranes Determined with Fluorescent Excited State Intramolecular Proton Transfer (ESIPT) Probe. Journal of Biological Chemistry, 2011, 286, 13023-13032.	3.4	90
23	Modulation of a Photoswitchable Dual-Color Quantum Dot containing a Photochromic FRET Acceptor and an Internal Standard. Nano Letters, 2012, 12, 3537-3544.	9.1	88
24	Fluorescent N-Arylaminonaphthalene Sulfonate Probes for Amyloid Aggregation of Î±-Synuclein. Biophysical Journal, 2008, 94, 4867-4879.	0.5	85
25	Highly Solvatochromic 7-Aryl-3-hydroxychromones. Journal of Physical Chemistry Letters, 2012, 3, 1011-1016.	4.6	85
26	Tumor suppressor protein p53 binds preferentially to supercoiled DNA. Oncogene, 1997, 15, 2201-2209.	5.9	82
27	Spectrally Resolved Fluorescence Lifetime Imaging Microscopy. Applied Spectroscopy, 2002, 56, 155-166.	2.2	80
28	Photoswitchable semiconductor nanocrystals with self-regulating photochromic FÃ¶rster resonance energy transfer acceptors. Nature Communications, 2015, 6, 6036.	12.8	78
29	Changes in interfacial properties of Î±-synuclein preceding its aggregation. Analyst, The, 2008, 133, 76-84.	3.5	77
30	Quantum Dots as Templates for Self-Assembly of Photoswitchable Polymers: Small, Dual-Color Nanoparticles Capable of Facile Photomodulation. Journal of the American Chemical Society, 2013, 135, 3208-3217.	13.7	75
31	Multiparametric Fluorescence Detection of Early Stages in the Amyloid Protein Aggregation of Pyrene-labeled Î±-Synuclein. Journal of Molecular Biology, 2008, 378, 1064-1073.	4.2	74
32	Quantum Dots As Ultrasensitive Nanoactuators and Sensors of Amyloid Aggregation in Live Cells. Journal of the American Chemical Society, 2009, 131, 8102-8107.	13.7	73
33	Higher Vulnerability and Stress Sensitivity of Neuronal Precursor Cells Carrying an Alpha-Synuclein Gene Triplication. PLoS ONE, 2014, 9, e112413.	2.5	73
34	Double-stranded DNA Stimulates the Fibrillation of Î±-Synuclein in vitro and is Associated with the Mature Fibrils: An Electron Microscopy Study. Journal of Molecular Biology, 2004, 344, 929-938.	4.2	68
35	The mode of Î±-synuclein binding to membranes depends on lipid composition and lipid to protein ratio. FEBS Letters, 2011, 585, 3513-3519.	2.8	66
36	Imaging Quantum Dots Switched On and Off by Photochromic Fluorescence Resonance Energy Transfer (pcFRET). Molecular Crystals and Liquid Crystals, 2005, 430, 257-265.	0.9	60

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37	Imaging Nanometer-Sized Î±-Synuclein Aggregates by Superresolution Fluorescence Localization Microscopy. Biophysical Journal, 2012, 102, 1598-1607.	0.5	60
38	Confocal Fluorescence Anisotropy and FRAP Imaging of Î±-Synuclein Amyloid Aggregates in Living Cells. PLoS ONE, 2011, 6, e23338.	2.5	59
39	Spectral Imaging in a Programmable Array Microscope by Hadamard Transform Fluorescence Spectroscopy. Applied Spectroscopy, 1999, 53, 1-10.	2.2	58
40	A Triple-Emission Fluorescent Probe Reveals Distinctive Amyloid Fibrillar Polymorphism of Wild-Type Î±-Synuclein and Its Familial Parkinsonâ€™s Disease Mutants. Biochemistry, 2009, 48, 7465-7472.	2.5	54
41	Optical Sectioning Fluorescence Spectroscopy in a Programmable Array Microscope. Applied Spectroscopy, 1998, 52, 783-789.	2.2	51
42	Proximity relationships between the type I receptor for FcÉ›e (FcÉ›eRI) and the mast cell function-associated antigen (MAFA) studied by donor photobleaching fluorescence resonance energy transfer microscopy. European Journal of Immunology, 1996, 26, 84-91.	2.9	50
43	Complexity of signal transduction mediated by ErbB2: Clues to the potential of receptor-targeted cancer therapy. Pathology and Oncology Research, 1999, 5, 255-271.	1.9	50
44	HMG1 protein stimulates DNA end joining by promoting association of DNA molecules via their ends. FEBS Journal, 2000, 267, 4088-4097.	0.2	49
45	DNA bending due to specific p53 and p53 core domain-DNA interactions visualized by electron microscopy. Journal of Molecular Biology, 1999, 294, 1015-1026.	4.2	48
46	Biophysical properties and cellular toxicity of covalent crosslinked oligomers of Î±-synuclein formed by photoinduced side-chain tyrosyl radicals. Free Radical Biology and Medicine, 2012, 53, 1004-1015.	2.9	48
47	Dynamic conformational transitions of the EGF receptor in living mammalian cells determined by FRET and fluorescence lifetime imaging microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 794-805.	1.5	47
48	Triad-DNA: a model for trinucleotide repeats. Nature Genetics, 1995, 9, 339-341.	21.4	45
49	A New Paradigm for MAPK: Structural Interactions of hERK1 with Mitochondria in HeLa Cells. PLoS ONE, 2009, 4, e7541.	2.5	44
50	The scanning force microscopy of DNA in air and in n -propanol using new spreading agents. FEBS Letters, 1994, 355, 91-95.	2.8	43
51	A Parallel Stranded Linear DNA Duplex Incorporating dG Â· dC Base Pairs. Journal of Biomolecular Structure and Dynamics, 1990, 7, 1199-1209.	3.5	42
52	Photoswitchable fluorescent diheteroarylethenes: substituent effects on photochromic and solvatochromic properties. Photochemical and Photobiological Sciences, 2014, 13, 603-612.	2.9	41
53	Probing DNA structure and function with a multiwavelength fluorescence confocal laser microscope. Journal of Microscopy, 1990, 157, 61-72.	1.8	40
54	Efficient superresolution restoration algorithms using maximum a posteriori estimations with application to fluorescence microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 1696.	1.5	39

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55	The snRNP 15.5K protein folds its cognate K-turn RNA: A combined theoretical and biochemical study. Rna, 2005, 11, 197-209.	3.5	38
56	Waterâ€Soluble, Thermostable, Photomodulated Colorâ€Switching Quantum Dots. Chemistry - A European Journal, 2017, 23, 263-267.	3.3	36
57	Binding of p53 and its core domain to supercoiled DNA. FEBS Journal, 2001, 268, 573-581.	0.2	34
58	Amyloid fibrils from the mammalian protein prothymosin Î±. FEBS Letters, 2002, 517, 37-40.	2.8	32
59	Differential endocytosis and signaling dynamics of insulin receptor variants IR-A and IR-B. Journal of Cell Science, 2011, 124, 801-811.	2.0	32
60	Supramolecular Non-Amyloid Intermediates in the Early Stages ofÂÎ±-Synuclein Aggregation. Biophysical Journal, 2012, 102, 1127-1136.	0.5	31
61	[6] Photophysics of green and red fluorescent proteins: Implications for quantitative microscopy. Methods in Enzymology, 2003, 360, 178-201.	1.0	30
62	Magnetic Nanoparticles as Mediators of Ligand-Free Activation of EGFR Signaling. PLoS ONE, 2013, 8, e68879.	2.5	30
63	Super-resolution Imaging of Energy Transfer by Intensity-Based STED-FRET. Nano Letters, 2021, 21, 2296-2303.	9.1	29
64	Parallel-Stranded DNA with Mixed AT/GC Composition:â€‰ Role of trans GÂ·C Base Pairs in Sequence Dependent Helical Stability. Biochemistry, 2000, 39, 10034-10044.	2.5	28
65	Loss of G-A base pairs is insufficient for achieving a large opening of U4 snRNA K-turn motif. Nucleic Acids Research, 2005, 33, 3435-3446.	14.5	27
66	Characterization of Coupled Ground State and Excited State Equilibria by Fluorescence Spectral Deconvolution. Journal of Fluorescence, 2010, 20, 181-190.	2.5	26
67	ESIPT and FRET probes for monitoring nanoparticle polymer coating stability. Nanoscale, 2017, 9, 8647-8656.	5.6	26
68	Fluorescence lifetime imaging microscopy: Pixel-by-pixel analysis of phase-modulation data. Bioimaging, 1994, 2, 139-159.	1.3	24
69	FTIR and UV Spectroscopy of Parallel-Stranded DNAs with Mixed Aâ€¢T/Gâ€¢C Sequences and Their Aâ€¢T/Iâ€¢C Analogues. Biochemistry, 1998, 37, 16529-16537.	2.5	24
70	Fluorescence recovery after photobleaching and photoconversion in multiple arbitrary regions of interest using a programmable array microscope. Microscopy Research and Technique, 2009, 72, 431-440.	2.2	24
71	Heterogeneity of signal transduction at the subcellular level: microsphere-based focal EGF receptor activation and stimulation of Shc translocation. Journal of Cell Science, 2001, 114, 2437-2447.	2.0	23
72	Multivariate chromosome analysis and complete karyotyping using dual labeling and fluorescence digital imaging microscopy. Cytometry, 1990, 11, 80-93.	1.8	22

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73	Fluorescence lifetime imaging in an optically sectioning programmable array microscope (PAM). Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 112-118.	1.5	21
74	FRET Imaging by k_t/k_f. ChemPhysChem, 2011, 12, 563-566.	2.1	20
75	Signal transduction of erbB receptors in trastuzumab (Herceptin) sensitive and resistant cell lines: Local stimulation using magnetic microspheres as assessed by quantitative digital microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 161-171.	1.5	19
76	Image restoration based on Goodâ€™s roughness penalty with application to fluorescence microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1077.	1.5	18
77	Selective photoreactions in a programmable array microscope (PAM): Photoinitiated polymerization, photodecaging, and photochromic conversion. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 68-75.	1.5	18
78	Replication bands and nucleoli in the macronucleus of Euplotes eurystomus: An ultrastructural and cytochemical study. Biology of the Cell, 1988, 62, 83-93.	2.0	17
79	Structure-Function Relationships of ErbB RTKs in the Plasma Membrane of Living Cells. Cold Spring Harbor Perspectives in Biology, 2014, 6, a008961-a008961.	5.5	15
80	Mg2+-dependent conformational changes and product release during DNA-catalyzed RNA ligation monitored by Bimane fluorescence. Nucleic Acids Research, 2015, 43, 40-50.	14.5	14
81	Three-dimensional component labeling of digital confocal microscope images enumerates replication centers in BrdUrd labeled fibroblasts. Cytometry, 1992, 13, 220-229.	1.8	12
82	Photochromism-Fret (phFRET): Modulation of Fluorescence Resonance Energy Transfer by A Photochromic Acceptor. Molecular Crystals and Liquid Crystals, 1997, 298, 151-159.	0.3	12
83	Optical sectioning with a fluorescence confocal SLM: procedures for determination of the 2â€Ð digital modulation transfer function and for 3â€Ð reconstruction by tessellation. Journal of Microscopy, 1990, 158, 153-164.	1.8	11
84	Highly Multiplexed Optically Sectioned Spectroscopic Imaging in a Programmable Array Microscope. Applied Spectroscopy, 2001, 55, 1115-1123.	2.2	11
85	Protein manipulation by stimuli-responsive polymers encapsulated in erythrocyte ghosts. Soft Matter, 2009, 5, 1006.	2.7	11
86	Pre-aggregation kinetics of Î±-synuclein monitored by the ESIPT probe 7MFE. European Biophysics Journal, 2018, 47, 345-362.	2.2	11
87	Contrast enhancement and depth perception in threeâ€dimensional representations of differential interference contrast and confocal scanning laser microscope images. Journal of Microscopy, 1992, 166, 155-168.	1.8	10
88	Photochromic fluorescence resonance energy transfer (pcFRET): formalism, implementation, and perspectives. , 2004, , .		10
89	Binding of Actinomycin D to Single-Stranded Dna. Nucleosides & Nucleotides, 1997, 16, 661-667.	0.5	9
90	Quantitative image analysis of cellular protein translocation induced by magnetic microspheres: Application to the EGF Receptor. Cytometry, 2003, 52A, 1-11.	1.8	9

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91	Title is missing!. Journal of Fluorescence, 1997, 7, 381-385.	2.5	8
92	Striving for atomic resolution in biomolecular topography: The scanning force microscope (SFM). BioEssays, 1996, 18, 925-935.	2.5	7
93	The Telomeric dG(GT)4G Sequence Can Adopt a Parallel-Stranded Double Helical Conformation. Journal of Biomolecular Structure and Dynamics, 2001, 18, 493-503.	3.5	7
94	Chapter 12 Reflections on FRET imaging. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2009, 33, 475-517.	0.2	7
95	Generation-3 programmable array microscope (PAM) with digital micro-mirror device (DMD). Proceedings of SPIE, 2011, , .	0.8	6
96	Pinning Down the EGF Receptor. Biophysical Journal, 2014, 107, 2486-2488.	0.5	6
97	Salt-induced isomerization of a synthetic RNA poly[r(A-U)]. Biopolymers, 1988, 27, 351-354.	2.4	4
98	Generation 3 programmable array microscope (PAM) for high speed large format optical sectioning in fluorescence. Proceedings of SPIE, 2015, , .	0.8	4
99	Replication bands and nucleoli in the macronucleus of Euplotes eurystomus: an ultrastructural and cytochemical study. Biology of the Cell, 1988, 62, 83-93.	2.0	3
100	Photochromic Relaxation Kinetics. Molecular Crystals and Liquid Crystals, 2005, 430, 281-286.	0.9	2
101	Conformational variability of recombination R-triplex formed by the mammalian telomeric sequence. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1298-1306.	3.5	2
102	Manfred Eigen (1927â€“2019). Science, 2019, 364, 33-33.	12.6	2
103	Concern over use of the term Z-DNA. Nature, 2021, 594, 333-333.	27.8	2
104	The localization and processing of fluorescent labeled rat brain protein kinase C in single cells. Bioimaging, 1996, 4, 25-37.	1.3	1
105	Scanning Near-Field Optical Imaging and Spectroscopy in Cell Biology. , 0, , 271-290.		1
106	Programmable Array Microscopes. Microscopy Today, 2001, 9, 8-13.	0.3	1
107	Novel (Bio)chemical and (Photo)physical Probes for Imaging Living Cells. , 2005, , 99-118.		1
108	Comparison of fixation protocols for adherent cultured cells applied to a GFP fusion protein of the epidermal growth factor receptor. , 1999, 35, 353.		1

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109	Remembering Robert Clegg. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 765-766.	1.5	0
110	The Labyrinthine World of Gregorio Weber. Springer Series on Fluorescence, 2016, , 41-56.	0.8	0