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	Super-resolution Imaging of Energy Transfer by Intensity-Based STED-FRET. Nano Letters, 2021, 21, 2296-2303.	9.1	29
2	Concern over use of the term Z-DNA. Nature, 2021, 594, 333-333.	27.8	2
3	Manfred Eigen (1927â€“2019). Science, 2019, 364, 33-33.	12.6	2
4	Pre-aggregation kinetics and intermediates of Î±-synuclein monitored by the ESIPT probe 7MFE. European Biophysics Journal, 2018, 47, 345-362.	2.2	11
5	Glycation potentiates Î±-synuclein-associated neurodegeneration in synucleinopathies. Brain, 2017, 140, 1399-1419.	7.6	153
6	ESIPT and FRET probes for monitoring nanoparticle polymer coating stability. Nanoscale, 2017, 9, 8647-8656.	5.6	26
7	Waterâ€Soluble, Thermostable, Photomodulated Colorâ€Switching Quantum Dots. Chemistry - A European Journal, 2017, 23, 263-267.	3.3	36
8	The Labyrinthine World of Gregorio Weber. Springer Series on Fluorescence, 2016, , 41-56.	0.8	0
9	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
10	Photoswitchable semiconductor nanocrystals with self-regulating photochromic FÃ¶rster resonance energy transfer acceptors. Nature Communications, 2015, 6, 6036.	12.8	78
11	Generation 3 programmable array microscope (PAM) for high speed large format optical sectioning in fluorescence. Proceedings of SPIE, 2015, , .	0.8	4
12	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
13	Higher Vulnerability and Stress Sensitivity of Neuronal Precursor Cells Carrying an Alpha-Synuclein Gene Triplication. PLoS ONE, 2014, 9, e112413.	2.5	73
14	Pinning Down the EGF Receptor. Biophysical Journal, 2014, 107, 2486-2488.	0.5	6
15	Photoswitchable fluorescent diheteroarylethenes: substituent effects on photochromic and solvatochromic properties. Photochemical and Photobiological Sciences, 2014, 13, 603-612.	2.9	41
16	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
17	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
18	Influence of Gold Nanoparticles on the Kinetics of Î±-Synuclein Aggregation. Nano Letters, 2013, 13, 6156-6163.	9.1	127

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19	Remembering Robert Clegg. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 765-766.	1.5	0
20	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
21	Magnetic Nanoparticles as Mediators of Ligand-Free Activation of EGFR Signaling. PLoS ONE, 2013, 8, e68879.	2.5	30
22	Highly Solvatochromic 7-Aryl-3-hydroxychromones. Journal of Physical Chemistry Letters, 2012, 3, 1011-1016.	4.6	85
23	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
24	Supramolecular Non-Amyloid Intermediates in the Early Stages ofÂÎ±-Synuclein Aggregation. Biophysical Journal, 2012, 102, 1127-1136.	0.5	31
25	Imaging Nanometer-Sized Î±-Synuclein Aggregates by Superresolution Fluorescence Localization Microscopy. Biophysical Journal, 2012, 102, 1598-1607.	0.5	60
26	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
27	Photoswitchable Water-Soluble Quantum Dots: pcFRET Based on Amphiphilic Photochromic Polymer Coating. ACS Nano, 2011, 5, 2795-2805.	14.6	116
28	Confocal Fluorescence Anisotropy and FRAP Imaging of Î±-Synuclein Amyloid Aggregates in Living Cells. PLoS ONE, 2011, 6, e23338.	2.5	59
29	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
30	FRET Imaging by k_t/k_f. ChemPhysChem, 2011, 12, 563-566.	2.1	20
31	Generation-3 programmable array microscope (PAM) with digital micro-mirror device (DMD). Proceedings of SPIE, 2011, , .	0.8	6
32	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
33	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
34	Characterization of Coupled Ground State and Excited State Equilibria by Fluorescence Spectral Deconvolution. Journal of Fluorescence, 2010, 20, 181-190.	2.5	26
35	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
36	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

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37	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
38	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
39	Protein manipulation by stimuli-responsive polymers encapsulated in erythrocyte ghosts. Soft Matter, 2009, 5, 1006.	2.7	11
40	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
41	A New Paradigm for MAPK: Structural Interactions of hERK1 with Mitochondria in HeLa Cells. PLoS ONE, 2009, 4, e7541.	2.5	44
42	Fluorescent N-Arylaminonaphthalene Sulfonate Probes for Amyloid Aggregation of Î±-Synuclein. Biophysical Journal, 2008, 94, 4867-4879.	0.5	85
43	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
44	Changes in interfacial properties of Î±-synuclein preceding its aggregation. Analyst, The, 2008, 133, 76-84.	3.5	77
45	Fluorescence imaging of amyloid formation in living cells by a functional, tetracysteine-tagged Î±-synuclein. Nature Methods, 2007, 4, 345-351.	19.0	126
46	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
47	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
48	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
49	Novel (Bio)chemical and (Photo)physical Probes for Imaging Living Cells. , 2005, , 99-118.		1
50	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
51	Reaching out for signals. Journal of Cell Biology, 2005, 170, 619-626.	5.2	220
52	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
53	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
54	Photochromic Relaxation Kinetics. Molecular Crystals and Liquid Crystals, 2005, 430, 281-286.	0.9	2

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55	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
56	Photochromic fluorescence resonance energy transfer (pcFRET): formalism, implementation, and perspectives. , 2004, , .		10
57	Quantum dot ligands provide new insights into erbB/HER receptorâ€“mediated signal transduction. Nature Biotechnology, 2004, 22, 198-203.	17.5	796
58	NMR of Î±-synucleinâ€“polyamine complexes elucidates the mechanism and kinetics of induced aggregation. EMBO Journal, 2004, 23, 2039-2046.	7.8	231
59	Rapid Self-assembly of Î±-Synuclein Observed by In Situ Atomic Force Microscopy. Journal of Molecular Biology, 2004, 340, 127-139.	4.2	165
60	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
61	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
62	Quantitative image analysis of cellular protein translocation induced by magnetic microspheres: Application to the EGF Receptor. Cytometry, 2003, 52A, 1-11.	1.8	9
63	FRET imaging. Nature Biotechnology, 2003, 21, 1387-1395.	17.5	1,763
64	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
65	Cellular Polyamines Promote the Aggregation of Î±-Synuclein. Journal of Biological Chemistry, 2003, 278, 3235-3240.	3.4	161
66	[6] Photophysics of green and red fluorescent proteins: Implications for quantitative microscopy. Methods in Enzymology, 2003, 360, 178-201.	1.0	30
67	Spectrally Resolved Fluorescence Lifetime Imaging Microscopy. Applied Spectroscopy, 2002, 56, 155-166.	2.2	80
68	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
69	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
70	Amyloid fibrils from the mammalian protein prothymosin Î±. FEBS Letters, 2002, 517, 37-40.	2.8	32
71	Dependence of Î±-Synuclein Aggregate Morphology on Solution Conditions. Journal of Molecular Biology, 2002, 322, 383-393.	4.2	487
72	Dynamic Fluorescence Anisotropy Imaging Microscopy inthe Frequency Domain (rFLIM). Biophysical Journal, 2002, 83, 1631-1649.	0.5	201

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73	Highly Multiplexed Optically Sectioned Spectroscopic Imaging in a Programmable Array Microscope. Applied Spectroscopy, 2001, 55, 1115-1123.	2.2	11
74	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
75	Programmable Array Microscopes. Microscopy Today, 2001, 9, 8-13.	0.3	1
76	Binding of p53 and its core domain to supercoiled DNA. FEBS Journal, 2001, 268, 573-581.	0.2	34
77	Fluorescence lifetime imaging: multi-point calibration, minimum resolvable differences, and artifact suppression. Cytometry, 2001, 43, 248-260.	1.8	112
78	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
79	HMG1 protein stimulates DNA end joining by promoting association of DNA molecules via their ends. FEBS Journal, 2000, 267, 4088-4097.	0.2	49
80	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
81	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
82	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
83	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
84	Spectral Imaging in a Programmable Array Microscope by Hadamard Transform Fluorescence Spectroscopy. Applied Spectroscopy, 1999, 53, 1-10.	2.2	58
85	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
86	Comparison of fixation protocols for adherent cultured cells applied to a GFP fusion protein of the epidermal growth factor receptor. , 1999, 35, 353.		1
87	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
88	Optical Sectioning Fluorescence Spectroscopy in a Programmable Array Microscope. Applied Spectroscopy, 1998, 52, 783-789.	2.2	51
89	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
90	Binding of Actinomycin D to Single-Stranded Dna. Nucleosides & Nucleotides, 1997, 16, 661-667.	0.5	9

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91	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
92	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
93	Tumor suppressor protein p53 binds preferentially to supercoiled DNA. Oncogene, 1997, 15, 2201-2209.	5.9	82
94	Title is missing!. Journal of Fluorescence, 1997, 7, 381-385.	2.5	8
95	The localization and processing of fluorescent labeled rat brain protein kinase C in single cells. Bioimaging, 1996, 4, 25-37.	1.3	1
96	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
97	Striving for atomic resolution in biomolecular topography: The scanning force microscope (SFM). BioEssays, 1996, 18, 925-935.	2.5	7
98	Triad-DNA: a model for trinucleotide repeats. Nature Genetics, 1995, 9, 339-341.	21.4	45
99	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
100	Fluorescence lifetime imaging microscopy: Pixel-by-pixel analysis of phase-modulation data. Bioimaging, 1994, 2, 139-159.	1.3	24
101	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
102	Three-dimensional component labeling of digital confocal microscope images enumerates replication centers in BrdUrd labeled fibroblasts. Cytometry, 1992, 13, 220-229.	1.8	12
103	Multivariate chromosome analysis and complete karyotyping using dual labeling and fluorescence digital imaging microscopy. Cytometry, 1990, 11, 80-93.	1.8	22
104	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
105	Probing DNA structure and function with a multiwavelength fluorescence confocal laser microscope. Journal of Microscopy, 1990, 157, 61-72.	1.8	40
106	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
107	Salt-induced isomerization of a synthetic RNA poly[r(A-U)]. Biopolymers, 1988, 27, 351-354.	2.4	4
108	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

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109	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
110	Scanning Near-Field Optical Imaging and Spectroscopy in Cell Biology. , 0, , 271-290.		1