

Jasper J Van Thor

List of Publications by Year in descending order

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57
papers

2,823
citations

218592

26
h-index

175177

52
g-index

58
all docs

58
docs citations

58
times ranked

3322
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	6.0	418
2	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	6.0	348
3	Phototransformation of green fluorescent protein with UV and visible light leads to decarboxylation of glutamate 222. <i>Nature Structural Biology</i> , 2002, 9, 37-41.	9.7	219
4	Uncovering the hidden ground state of green fluorescent protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17988-17993.	3.3	135
5	Photoreactions and dynamics of the green fluorescent protein. <i>Chemical Society Reviews</i> , 2009, 38, 2935.	18.7	115
6	Transient Exposure of Hydrophobic Surface in the Photoactive Yellow Protein Monitored with Nile Red. <i>Biophysical Journal</i> , 2002, 82, 1632-1643.	0.2	96
7	Protein Structural Dynamics of Photoactive Yellow Protein in Solution Revealed by Pump-Probe X-ray Solution Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 3145-3153.	6.6	95
8	Modelling Multi-Pulse Population Dynamics from Ultrafast Spectroscopy. <i>PLoS ONE</i> , 2011, 6, e17373.	1.1	92
9	Formation of the Early Photoproduct Lumi-R of Cyanobacterial Phytochrome Cph1 Observed by Ultrafast Mid-Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 126-132.	6.6	90
10	Characterization of the Photoconversion of Green Fluorescent Protein with FTIR Spectroscopy. <i>Biochemistry</i> , 1998, 37, 16915-16921.	1.2	85
11	The Short-Lived Signaling State of the Photoactive Yellow Protein Photoreceptor Revealed by Combined Structural Probes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9395-9404.	6.6	83
12	Characterization of the extracellular lipase, LipA, of <i>Acinetobacter calcoaceticus</i> BD413 and sequence analysis of the cloned structural gene. <i>Molecular Microbiology</i> , 1995, 15, 803-818.	1.2	72
13	Structural Events in the Photocycle of Green Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16099-16108.	1.2	68
14	Ground-state proton transfer in the photoswitching reactions of the fluorescent protein Dronpa. <i>Nature Communications</i> , 2013, 4, 1461.	5.8	64
15	Ultrafast and Low Barrier Motions in the Photoreactions of the Green Fluorescent Protein. <i>Journal of Biological Chemistry</i> , 2005, 280, 33652-33659.	1.6	62
16	Observation of Multiexponential Pico- to Subnanosecond Electron Injection in Optimized Dye-Sensitized Solar Cells with Visible-Pump Mid-Infrared-Probe Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 116-123.	1.5	58
17	Chromophore Structure in the Photocycle of the Cyanobacterial Phytochrome Cph1. <i>Biophysical Journal</i> , 2006, 91, 1811-1822.	0.2	54
18	Assignments of the Pfr ^{15N} FTIR Difference Spectrum of Cyanobacterial Phytochrome Cph1 Using ¹⁵ N and ¹³ C Isotopically Labeled Phycocyanobilin Chromophore. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20597-20604.	1.2	47

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19	Photoisomerisation quantum yield and non-linear cross-sections with femtosecond excitation of the photoactive yellow protein. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15752.	1.3	40
20	Balance between Ultrafast Parallel Reactions in the Green Fluorescent Protein Has a Structural Origin. <i>Biophysical Journal</i> , 2008, 95, 1902-1912.	0.2	38
21	Pump-Dump-Probe and Pump-Repump-Probe Ultrafast Spectroscopy Resolves Cross Section of an Early Ground State Intermediate and Stimulated Emission in the Photoreactions of the Pr Ground State of the Cyanobacterial Phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1077-1088.	1.2	34
22	Femtosecond Visible Transient Absorption Spectroscopy of Chlorophyll f-Containing Photosystem I. <i>Biophysical Journal</i> , 2017, 112, 234-249.	0.2	34
23	Photocycle populations with femtosecond excitation of crystalline photoactive yellow protein. <i>Chemical Physics Letters</i> , 2016, 654, 63-71.	1.2	32
24	Photoisomerization and Proton Transfer in the Forward and Reverse Photoswitching of the Fast-Switching M159T Mutant of the Dronpa Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2350-2362.	1.2	31
25	Evidence for Slow Electron Injection in Commercially Relevant Dye-Sensitized Solar Cells by <i>vis-NIR</i> and IR Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25317-25324.	1.5	30
26	Mid-Infrared Picosecond Pump-Dump-Probe and Pump-Repump-Probe Experiments to Resolve a Ground-State Intermediate in Cyanobacterial Phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16354-16364.	1.2	27
27	Characterization and transcriptional regulation of the <i>Synechocystis</i> PCC 6803 <i>petH</i> gene, encoding ferredoxin-NADP+ oxidoreductase: involvement of a novel type of divergent operator. <i>Plant Molecular Biology</i> , 1998, 36, 353-363.	2.0	26
28	Ultrafast infrared observation of exciton equilibration from oriented single crystals of photosystem II. <i>Nature Communications</i> , 2016, 7, 13977.	5.8	26
29	Femtosecond infrared spectroscopy of chlorophyll f-containing photosystem I. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1224-1234.	1.3	25
30	Infrared protein crystallography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 760-777.	1.1	24
31	Analytical Harmonic Vibrational Frequencies for the Green Fluorescent Protein Computed with ONIOM: Chromophore Mode Character and Its Response to Environment. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 751-766.	2.3	24
32	Combined probes of X-ray scattering and optical spectroscopy reveal how global conformational change is temporally and spatially linked to local structural perturbation in photoactive yellow protein. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8911-8919.	1.3	22
33	Charge transfer in green fluorescent protein. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 597.	1.6	20
34	Signal to noise considerations for single crystal femtosecond time resolved crystallography of the Photoactive Yellow Protein. <i>Faraday Discussions</i> , 2014, 171, 439-455.	1.6	19
35	PyLDM - An open source package for lifetime density analysis of time-resolved spectroscopic data. <i>PLoS Computational Biology</i> , 2017, 13, e1005528.	1.5	18
36	A split-beam probe-pump-probe scheme for femtosecond time resolved protein X-ray crystallography. <i>Structural Dynamics</i> , 2015, 2, 014102.	0.9	15

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37	Kinetic studies on the oxidation of semiquinone and hydroquinone forms of <i>Arabidopsis</i> cryptochrome by molecular oxygen. <i>FEBS Open Bio</i> , 2015, 5, 885-892.	1.0	15
38	Populations and coherence in femtosecond time resolved X-ray crystallography of the photoactive yellow protein. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 117-143.	0.9	15
39	Femtosecond visible transient absorption spectroscopy of chlorophyll- <i>f</i> -containing photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23158-23164.	3.3	15
40	Coincidence timing of femtosecond optical pulses in an X-ray free electron laser. <i>Journal of Applied Physics</i> , 2017, 122, 203105.	1.1	14
41	X-ray Free Electron Laser Determination of Crystal Structures of Dark and Light States of a Reversibly Photoswitching Fluorescent Protein at Room Temperature. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1918.	1.8	14
42	Ultrafast vibrational dynamics of parallel excited state proton transfer reactions in the Green Fluorescent Protein. <i>Vibrational Spectroscopy</i> , 2012, 62, 1-6.	1.2	10
43	Excited State Frequencies of Chlorophyll <i>f</i> and Chlorophyll <i>a</i> and Evaluation of Displacement through Franck-Condon Progression Calculations. <i>Molecules</i> , 2019, 24, 1326.	1.7	10
44	Room temperature crystal structure of the fast switching M159T mutant of the fluorescent protein dronpa. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 397-402.	1.5	8
45	Optical control, selection and analysis of population dynamics in ultrafast protein X-ray crystallography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170474.	1.6	5
46	Coherent two-dimensional electronic and infrared crystallography. <i>Journal of Chemical Physics</i> , 2019, 150, 124113.	1.2	5
47	Radical-Triggered Reaction Mechanism of the Green-to-Red Photoconversion of EosFP. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7765-7778.	1.2	5
48	Fluorescence Resonance Energy Transfer (FRET) Applications Using Green Fluorescent Protein: Energy Transfer to the Endogenous Chromophores of Phycobilisome Light-Harvesting Complexes. , 2002, 183, 101-119.		4
49	Advances and opportunities in ultrafast X-ray crystallography and ultrafast structural optical crystallography of nuclear and electronic protein dynamics. <i>Structural Dynamics</i> , 2019, 6, 050901.	0.9	4
50	Open hardware microsecond dispersive transient absorption spectrometer for linear optical response. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 23-35.	1.6	4
51	Applications and Limits of Time-to-Energy Mapping of Protein Crystal Diffraction Using Energy-Chirped Polychromatic XFEL Pulses. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2599.	1.3	3
52	Theory of two-dimensional spectroscopy with intense laser fields. <i>Journal of Chemical Physics</i> , 2021, 154, 244111.	1.2	3
53	Photoconversion of the Green Fluorescent Protein and Related Proteins. <i>Springer Series on Fluorescence</i> , 2011, , 183-216.	0.8	2
54	Femtosecond Infrared Crystallography of Photosystem II Core Complexes: Watching Exciton Dynamics and Charge Separation in Real Space and Time. , 2017, , 81-116.		1

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55	PHOTOTRANSFORMATION OF THE WILD-TYPE <i>AEQUOREA VICTORIA</i> GREEN FLUORESCENT PROTEIN WITH UV-AND VISIBLE LIGHT LEADS TO DECARBOXYLATION OF GLUTAMATE 222. , 2002, , .		0
56	Linear and Non-Linear Population Retrieval with Femtosecond Optical Pumping of Molecular Crystals for the Generalised Uniaxial and Biaxial Systems. Applied Sciences (Switzerland), 2022, 12, 4309.	1.3	0
57	High Power Irradiance Dependence of Charge Species Dynamics in Hybrid Perovskites and Kinetic Evidence for Transient Vibrational Stark Effect in Formamidinium. Nanomaterials, 2022, 12, 1616.	1.9	0