Jasper J Van Thor

List of Publications by Year
in descending order

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	Open hardware microsecond dispersive transient absorption spectrometer for linear optical response. Photochemical and Photobiological Sciences, 2022, 21, 23-35.	1.6	4
2	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
3	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
4	Theory of two-dimensional spectroscopy with intense laser fields. Journal of Chemical Physics, 2021, 154, 244111.	1.2	3
5	Femtosecond visible transient absorption spectroscopy of chlorophyll- <i>f</i> -containing photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23158-23164.	3.3	15
6	Radical-Triggered Reaction Mechanism of the Green-to-Red Photoconversion of EosFP. Journal of Physical Chemistry B, 2020, 124, 7765-7778.	1.2	5
7	Applications and Limits of Time-to-Energy Mapping of Protein Crystal Diffraction Using Energy-Chirped Polychromatic XFEL Pulses. Applied Sciences (Switzerland), 2020, 10, 2599.	1.3	3
8	Advances and opportunities in ultrafast X-ray crystallography and ultrafast structural optical crystallography of nuclear and electronic protein dynamics. Structural Dynamics, 2019, 6, 050901.	0.9	4
9	Femtosecond infrared spectroscopy of chlorophyll f-containing photosystem I. Physical Chemistry Chemical Physics, 2019, 21, 1224-1234.	1.3	25
10	Optical control, selection and analysis of population dynamics in ultrafast protein X-ray crystallography. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170474.	1.6	5
11	Excited State Frequencies of Chlorophyll f and Chlorophyll a and Evaluation of Displacement through Franck-Condon Progression Calculations. Molecules, 2019, 24, 1326.	1.7	10
12	Coherent two-dimensional electronic and infrared crystallography. Journal of Chemical Physics, 2019, 150, 124113.	1.2	5
13	Femtosecond Visible Transient Absorption Spectroscopy of Chlorophyll f -Containing Photosystem I. Biophysical Journal, 2017, 112, 234-249.	0.2	34
14	Populations and coherence in femtosecond time resolved X-ray crystallography of the photoactive yellow protein. International Reviews in Physical Chemistry, 2017, 36, 117-143.	0.9	15
15	Coincidence timing of femtosecond optical pulses in an X-ray free electron laser. Journal of Applied Physics, 2017, 122, 203105.	1.1	14
16	X-ray Free Electron Laser Determination of Crystal Structures of Dark and Light States of a Reversibly Photoswitching Fluorescent Protein at Room Temperature. International Journal of Molecular Sciences, 2017, 18, 1918.	1.8	14
17	Femtosecond Infrared Crystallography of Photosystem II Core Complexes: Watching Exciton Dynamics and Charge Separation in Real Space and Time. , 2017, , 81-116.		1
18	PyLDM - An open source package for lifetime density analysis of time-resolved spectroscopic data. PLoS Computational Biology, 2017, 13, e1005528.	1.5	18

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19	Ultrafast infrared observation of exciton equilibration from oriented single crystals of photosystem II. Nature Communications, 2016, 7, 13977.	5.8	26
20	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. Science, 2016, 352, 725-729.	6.0	348
21	Photocycle populations with femtosecond excitation of crystalline photoactive yellow protein. Chemical Physics Letters, 2016, 654, 63-71.	1.2	32
22	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. Physical Chemistry Chemical Physics, 2016, 18, 8911-8919.	1.3	22
23	A split-beam probe-pump-probe scheme for femtosecond time resolved protein X-ray crystallography. Structural Dynamics, 2015, 2, 014102.	0.9	15
24	Kinetic studies on the oxidation of semiquinone and hydroquinone forms of <i>Arabidopsis</i> cryptochrome by molecular oxygen. FEBS Open Bio, 2015, 5, 885-892.	1.0	15
25	Room temperature crystal structure of the fast switching M159T mutant of the fluorescent protein dronpa. Proteins: Structure, Function and Bioinformatics, 2015, 83, 397-402.	1.5	8
26	Photoisomerization and Proton Transfer in the Forward and Reverse Photoswitching of the Fast-Switching M159T Mutant of the Dronpa Fluorescent Protein. Journal of Physical Chemistry B, 2015, 119, 2350-2362.	1.2	31
27	Signal to noise considerations for single crystal femtosecond time resolved crystallography of the Photoactive Yellow Protein. Faraday Discussions, 2014, 171, 439-455.	1.6	19
28	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. Science, 2014, 346, 1242-1246.	6.0	418
29	Analytical Harmonic Vibrational Frequencies for the Green Fluorescent Protein Computed with ONIOM: Chromophore Mode Character and Its Response to Environment. Journal of Chemical Theory and Computation, 2014, 10, 751-766.	2.3	24
30	Evidence for â€œSlowâ€•Electron Injection in Commercially Relevant Dye-Sensitized Solar Cells by visâ€“NIR and IR Pumpâ€“Probe Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 25317-25324.	1.5	30
31	Ground-state proton transfer in the photoswitching reactions of the fluorescent protein Dronpa. Nature Communications, 2013, 4, 1461.	5.8	64
32	Observation of Multiexponential Pico- to Subnanosecond Electron Injection in Optimized Dye-Sensitized Solar Cells with Visible-Pump Mid-Infrared-Probe Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 116-123.	1.5	58
33	Ultrafast vibrational dynamics of parallel excited state proton transfer reactions in the Green Fluorescent Protein. Vibrational Spectroscopy, 2012, 62, 1-6.	1.2	10
34	Pumpâ€“Dumpâ€“Probe and Pumpâ€“Repumpâ€“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. Journal of Physical Chemistry B, 2012, 116, 1077-1088.	1.2	34
35	Protein Structural Dynamics of Photoactive Yellow Protein in Solution Revealed by Pumpâ€“Probe X-ray Solution Scattering. Journal of the American Chemical Society, 2012, 134, 3145-3153.	6.6	95
36	Photoisomerisation quantum yield and non-linear cross-sections with femtosecond excitation of the photoactive yellow protein. Physical Chemistry Chemical Physics, 2012, 14, 15752.	1.3	40

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37	The Short-Lived Signaling State of the Photoactive Yellow Protein Photoreceptor Revealed by Combined Structural Probes. Journal of the American Chemical Society, 2011, 133, 9395-9404.	6.6	83
38	Infrared protein crystallography. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 760-777.	1.1	24
39	Photoconversion of the Green Fluorescent Protein and Related Proteins. Springer Series on Fluorescence, 2011, , 183-216.	0.8	2
40	Modelling Multi-Pulse Population Dynamics from Ultrafast Spectroscopy. PLoS ONE, 2011, 6, e17373.	1.1	92
41	Photoreactions and dynamics of the green fluorescent protein. Chemical Society Reviews, 2009, 38, 2935.	18.7	115
42	Mid-Infrared Picosecond Pumpâ˘'Dumpâ˘'Probe and Pumpâ˘'Repump-Probe Experiments to Resolve a Ground-State Intermediate in Cyanobacterial Phytochrome Cph1. Journal of Physical Chemistry B, 2009, 113, 16354-16364.	1.2	27
43	Balance between Ultrafast Parallel Reactions in the Green Fluorescent Protein Has a Structural Origin. Biophysical Journal, 2008, 95, 1902-1912.	0.2	38
44	Formation of the Early Photoproduct Lumi-R of Cyanobacterial Phytochrome Cph1 Observed by Ultrafast Mid-Infrared Spectroscopy. Journal of the American Chemical Society, 2007, 129, 126-132.	6.6	90
45	Charge transfer in green fluorescent protein. Photochemical and Photobiological Sciences, 2006, 5, 597.	1.6	20
46	Chromophore Structure in the Photocycle of the Cyanobacterial Phytochrome Cph1. Biophysical Journal, 2006, 91, 1811-1822.	0.2	54
47	Ultrafast and Low Barrier Motions in the Photoreactions of the Green Fluorescent Protein. Journal of Biological Chemistry, 2005, 280, 33652-33659.	1.6	62
48	Assignments of the Pfrâ˘'Pr FTIR Difference Spectrum of Cyanobacterial Phytochrome Cph1 Using15N and13C Isotopically Labeled Phycocyanobilin Chromophore. Journal of Physical Chemistry B, 2005, 109, 20597-20604.	1.2	47
49	Structural Events in the Photocycle of Green Fluorescent Protein. Journal of Physical Chemistry B, 2005, 109, 16099-16108.	1.2	68
50	Uncovering the hidden ground state of green fluorescent protein. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17988-17993.	3.3	135
51	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
52	Transient Exposure of Hydrophobic Surface in the Photoactive Yellow Protein Monitored with Nile Red. Biophysical Journal, 2002, 82, 1632-1643.	0.2	96
53	Phototransformation of green fluorescent protein with UV and visible light leads to decarboxylation of glutamate 222. Nature Structural Biology, 2002, 9, 37-41.	9.7	219
54	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

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55	Characterization and transcriptional regulation of the Synechocystis PCC 6803 petH gene, encoding ferredoxin-NADP+ oxidoreductase: involvement of a novel type of divergent operator. Plant Molecular Biology, 1998, 36, 353-363.	2.0	26
56	Characterization of the Photoconversion of Green Fluorescent Protein with FTIR Spectroscopy. Biochemistry, 1998, 37, 16915-16921.	1.2	85
57	Characterization of the extracellular lipase, LipA, of Acinetobacter calcoaceticus BD413 and sequence analysis of the cloned structural gene. Molecular Microbiology, 1995, 15, 803-818.	1.2	72