

Frank Van Mourik

List of Publications by Year in descending order

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57
papers

3,871
citations

126708

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149479

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docs citations

58
times ranked

3362
citing authors

#	ARTICLE	IF	CITATIONS
1	Superradiance and Exciton Delocalization in Bacterial Photosynthetic Light-Harvesting Systems. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7241-7248.	1.2	378
2	Ultrafast Nonadiabatic Dynamics of [FeII(bpy) ₃] ²⁺ in Solution. <i>Journal of the American Chemical Society</i> , 2007, 129, 8199-8206.	6.6	303
3	Excitation Transfer in the Core Light-Harvesting Complex (LH-1) of <i>Rhodobacter sphaeroides</i> : An Ultrafast Fluorescence Depolarization and Annihilation Study. <i>The Journal of Physical Chemistry</i> , 1995, 99, 16179-16191.	2.9	295
4	Broadband Femtosecond Fluorescence Spectroscopy of [Ru(bpy) ₃] ²⁺ . <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3174-3176.	7.2	251
5	Three-Pulse Photon Echo Measurements on LH1 and LH2 Complexes of <i>Rhodobacter sphaeroides</i> : A Nonlinear Spectroscopic Probe of Energy Transfer. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7350-7359.	1.2	190
6	Vibrational Coherences and Relaxation in the High-Spin State of Aqueous [Fe ^{II} (bpy) ₃] ²⁺ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7184-7187.	7.2	164
7	A New Pathway for Transmembrane Electron Transfer in Photosynthetic Reaction Centers of <i>Rhodobacter sphaeroides</i> Not Involving the Excited Special Pair. <i>Biochemistry</i> , 1997, 36, 6855-6861.	1.2	122
8	Vibrational Relaxation and Intersystem Crossing of Binuclear Metal Complexes in Solution. <i>Journal of the American Chemical Society</i> , 2011, 133, 305-315.	6.6	122
9	Ultrafast Tryptophan-to-Heme Electron Transfer in Myoglobins Revealed by UV 2D Spectroscopy. <i>Science</i> , 2013, 339, 1586-1589.	6.0	122
10	Ultrafast Excited-State Dynamics of [Re(L)(CO) ₃ (bpy)] ⁿ⁺ Complexes: Involvement of the Solvent. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6361-6369.	1.1	118
11	Low-intensity pump-probe spectroscopy on the B800 to B850 transfer in the light harvesting 2 complex of <i>Rhodobacter sphaeroides</i> . <i>Chemical Physics Letters</i> , 1995, 246, 341-346.	1.2	104
12	A high-repetition rate scheme for synchrotron-based picosecond laser pump/x-ray probe experiments on chemical and biological systems in solution. <i>Review of Scientific Instruments</i> , 2011, 82, 063111.	0.6	103
13	A setup for ultrafast time-resolved x-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2004, 75, 24-30.	0.6	91
14	Time-Resolved Photodynamics of Triangular-Shaped Silver Nanoplates. <i>Nano Letters</i> , 2006, 6, 7-10.	4.5	88
15	Trapping Kinetics in Mutants of the Photosynthetic Purple Bacterium <i>Rhodobacter sphaeroides</i> : Influence of the Charge Separation Rate and Consequences for the Rate-Limiting Step in the Light-Harvesting Process. <i>Biochemistry</i> , 1994, 33, 3143-3147.	1.2	77
16	Excitation Wavelength Dependence of the Fluorescence Kinetics in Photosystem I Particles from <i>Synechocystis</i> PCC 6803 and <i>Synechococcus elongatus</i> . <i>Biophysical Journal</i> , 2003, 85, 3883-3898.	0.2	73
17	Temperature dependence of electron-vibronic spectra of photosynthetic systems. Computer simulations and comparison with experiment. <i>Chemical Physics</i> , 1995, 194, 395-407.	0.9	72
18	Time-Resolved Visible and Infrared Study of the Cyano Complexes of Myoglobin and of Hemoglobin I from <i>Lucina pectinata</i> . <i>Biophysical Journal</i> , 2004, 87, 1881-1891.	0.2	68

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19	Ultrabroadband femtosecond two-dimensional ultraviolet transient absorption. <i>Optics Letters</i> , 2012, 37, 2337.	1.7	67
20	The Low-Energy Forms of Photosystem I Light-Harvesting Complexes: Spectroscopic Properties and Pigment-Pigment Interaction Characteristics. <i>Biophysical Journal</i> , 2007, 93, 2418-2428.	0.2	65
21	Exciton interactions in the light-harvesting antenna of photosynthetic bacteria studied with triplet-singlet spectroscopy and singlet-triplet annihilation on the B820 subunit form of <i>Rhodospirillum rubrum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1059, 111-119.	0.5	62
22	Time-Resolved Absorption Difference Spectroscopy of the LH-1 Antenna of <i>Rhodospseudomonas viridis</i> . <i>Journal of Physical Chemistry A</i> , 1998, 102, 4360-4371.	1.1	59
23	Energy Transfer in the B800 Rings of the Peripheral Bacterial Light-Harvesting Complexes of <i>Rhodospseudomonas Acidophila</i> and <i>Rhodospirillum Molischianum</i> Studied with Photon Echo Techniques. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11395-11408.	1.2	57
24	Femtosecond pump/supercontinuum-probe setup with 20 kHz repetition rate. <i>Review of Scientific Instruments</i> , 2012, 83, 093105.	0.6	54
25	Subpicosecond Transient Absorption Difference Spectroscopy on the Reaction Center of Photosystem II: Radical Pair Formation at 77 K. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15304-15309.	2.9	43
26	Energy transfer and relaxation mechanisms in Cytochrome c. <i>Chemical Physics</i> , 2012, 396, 108-115.	0.9	43
27	Inhomogeneous spectral broadening of the B820 subunit form of LH1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 238-244.	0.5	42
28	(Sub)-Picosecond Spectral Evolution of Fluorescence Studied with a Synchroscan Streak-Camera System and Target Analysis. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 223-240.	1.0	42
29	Functional electric field changes in photoactivated proteins revealed by ultrafast Stark spectroscopy of the Trp residues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7718-7723.	3.3	42
30	Primary Charge Separation Routes in the BChl:BPhe Heterodimer Reaction Centers of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 1999, 38, 7545-7555.	1.2	41
31	Coherent infrared emission from myoglobin crystals: An electric field measurement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1323-1328.	3.3	38
32	Excited-State Energy Equilibration via Subpicosecond Energy Transfer within the Inhomogeneously Broadened Light-Harvesting Antenna of LH-1-Only <i>Rhodobacter sphaeroides</i> Mutants M2192 at Room Temperature and 4.2 K. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18859-18867.	2.9	35
33	Low-Intensity Pump-Probe Measurements on the B800 Band of <i>Rhodospirillum molischianum</i> . <i>Biophysical Journal</i> , 2003, 84, 440-449.	0.2	29
34	Tryptophan-to-heme electron transfer in ferrous myoglobins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5602-5606.	3.3	29
35	Spectroscopic characterization of B820 subunits from light-harvesting complex I of <i>Rhodospirillum rubrum</i> and <i>Rhodobacter sphaeroides</i> prepared with the detergent n-octyl-rac-2,3-dipropylsulfide. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1100, 259-266.	0.5	28
36	Ultrafast Fluorescence Relaxation Spectroscopy of 6,7-Dimethyl-(8-ribityl)-lumazine and Riboflavin, Free and Bound to Antenna Proteins from Bioluminescent Bacteria. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10934-10939.	1.2	28

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37	A cascade through spin states in the ultrafast haem relaxation of met-myoglobin. <i>Journal of Chemical Physics</i> , 2014, 140, 025103.	1.2	25
38	Ultrafast electronic and vibrational relaxations in mixed-ligand dithione dithiolato Ni, Pd, and Pt complexes. <i>Dalton Transactions</i> , 2014, 43, 17666-17676.	1.6	24
39	On the role of spectral and spatial antenna inhomogeneity in the process of excitation energy trapping in photosynthesis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 15, 159-170.	1.7	23
40	SPECTRAL INHOMOGENEITY OF THE LIGHT-HARVESTING ANTENNA OF <i>Rhodospirillum rubrum</i> PROBED BY TRIPLET-MINUS-SINGLET SPECTROSCOPY AND SINGLET-TRIPLET ANNIHILATION AT LOW TEMPERATURES. <i>Photochemistry and Photobiology</i> , 1993, 57, 19-23.	1.3	23
41	Low-temperature absorption and site-selected fluorescence of the light-harvesting antenna of <i>Rhodospseudomonas viridis</i> . Evidence for heterogeneity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995, 1229, 373-380.	0.5	22
42	Probing the electron-phonon interaction in correlated systems with coherent lattice fluctuation spectroscopy. <i>Physical Review B</i> , 2015, 92, .	1.1	16
43	Modelling of aqueous solvation of eosin Y at the rutile TiO ₂ (110)/water interface. <i>Chemical Physics Letters</i> , 2006, 430, 375-379.	1.2	15
44	Global and target analysis of fluorescence measurements on photosystem 2 reaction centers upon red excitation. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4820.	1.3	14
45	Linear dichroism of CdSe nanodots: Large anisotropy of the band-gap absorption induced by ground-state dipole moments. <i>Physical Review B</i> , 2008, 77, .	1.1	13
46	Radical Pair Quantum Yield in Reaction Centers of Photosystem II of Green Plants and of the Bacterium <i>Rhodobacter sphaeroides</i> . Saturation Behavior with Sub-picosecond Pulses. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7869-7873.	1.2	12
47	Clocking the onset of bilayer coherence in a high- T_c cuprate. <i>Physical Review B</i> , 2017, 95, .	1.2	12
48	Title is missing!. <i>Photosynthesis Research</i> , 1998, 55, 141-146.	1.6	11
49	Direct Observation of Solvation Dynamics and Dielectric Relaxation in the Photosynthetic Light-Harvesting-2 Complex of <i>Rhodospseudomonas acidophila</i> . <i>Journal of Physical Chemistry B</i> , 2003, 107, 2156-2161.	1.2	11
50	A versatile setup for ultrafast broadband optical spectroscopy of coherent collective modes in strongly correlated quantum systems. <i>Structural Dynamics</i> , 2016, 3, 064301.	0.9	11
51	The Occurrence of Non-Gaussian Spectral Line Shapes of Molecules in Electrostatically Disordered Media. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9715-9718.	1.2	10
52	Photo-induced dynamics of the heme centers in cytochrome bc ₁ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2143-2151.	1.3	8
53	Aqueous Solvation Dynamics at Metal Oxide Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7835-7844.	1.2	6
54	Steady-state spectroscopy of zinc-bacteriopheophytin containing LH1: an in vitro and in silico study. <i>Chemical Physics</i> , 2002, 275, 31-45.	0.9	4

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55	Photo-induced oxidation of the uniquely liganded heme f in the cytochrome b6f complex of oxygenic photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12983-12991.	1.3	3
56	Polarized and Colored Photon Echo Measurements on the LH2 Antenna of RPS. <i>Acidophila and RS. Molischianum.</i> , 1998, , 45-48.		0
57	Energy Transfer in the B800 Ring of Light Harvesting Antenna Lh2 of Purple Bacteria rps. <i>Acidophila and rs. Molischianum Probed by Three Pulse Echo Peakshift.</i> , 1999, , 191-193.		0