

Frank Van Mourik

List of Publications by Year in descending order

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citations

126708

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58
all docs

58
docs citations

58
times ranked

3362
citing authors

#	ARTICLE	IF	CITATIONS
1	Unlocking the onset of bilayer coherence in a high- T_c cuprate. Physical Review B, 2017, 95, .		
2	A versatile setup for ultrafast broadband optical spectroscopy of coherent collective modes in strongly correlated quantum systems. Structural Dynamics, 2016, 3, 064301.	0.9	11
3	Photo-induced oxidation of the uniquely liganded heme f in the cytochrome b6f complex of oxygenic photosynthesis. Physical Chemistry Chemical Physics, 2016, 18, 12983-12991.	1.3	3
4	Probing the electron-phonon interaction in correlated systems with coherent lattice fluctuation spectroscopy. Physical Review B, 2015, 92, .	1.1	16
5	Photo-induced dynamics of the heme centers in cytochrome bc ₁ . Physical Chemistry Chemical Physics, 2015, 17, 2143-2151.	1.3	8
6	Tryptophan-to-heme electron transfer in ferrous myoglobins. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5602-5606.	3.3	29
7	Ultrafast electronic and vibrational relaxations in mixed-ligand dithione dithiolato Ni, Pd, and Pt complexes. Dalton Transactions, 2014, 43, 17666-17676.	1.6	24
8	A cascade through spin states in the ultrafast haem relaxation of met-myoglobin. Journal of Chemical Physics, 2014, 140, 025103.	1.2	25
9	Ultrafast Tryptophan-to-Heme Electron Transfer in Myoglobins Revealed by UV 2D Spectroscopy. Science, 2013, 339, 1586-1589.	6.0	122
10	Ultrabroadband femtosecond two-dimensional ultraviolet transient absorption. Optics Letters, 2012, 37, 2337.	1.7	67
11	Energy transfer and relaxation mechanisms in Cytochrome c. Chemical Physics, 2012, 396, 108-115.	0.9	43
12	Femtosecond pump/supercontinuum-probe setup with 20 kHz repetition rate. Review of Scientific Instruments, 2012, 83, 093105.	0.6	54
13	Vibrational Relaxation and Intersystem Crossing of Binuclear Metal Complexes in Solution. Journal of the American Chemical Society, 2011, 133, 305-315.	6.6	122
14	A high-repetition rate scheme for synchrotron-based picosecond laser pump/x-ray probe experiments on chemical and biological systems in solution. Review of Scientific Instruments, 2011, 82, 063111.	0.6	103
15	Ultrafast Excited-State Dynamics of [Re(L)(CO) ₃ (bpy)] ⁿ⁺ Complexes: Involvement of the Solvent. Journal of Physical Chemistry A, 2010, 114, 6361-6369.	1.1	118
16	Functional electric field changes in photoactivated proteins revealed by ultrafast Stark spectroscopy of the Trp residues. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7718-7723.	3.3	42
17	Vibrational Coherences and Relaxation in the High-Spin State of Aqueous [Fe ^{II} (bpy) ₃] ²⁺ . Angewandte Chemie - International Edition, 2009, 48, 7184-7187.	7.2	164
18	(Sub)-Picosecond Spectral Evolution of Fluorescence Studied with a Synchroscan Streak-Camera System and Target Analysis. Advances in Photosynthesis and Respiration, 2008, , 223-240.	1.0	42

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19	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
20	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
21	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
22	Aqueous Solvation Dynamics at Metal Oxide Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7835-7844.	1.2	6
23	Time-Resolved Photodynamics of Triangular-Shaped Silver Nanoplates. <i>Nano Letters</i> , 2006, 6, 7-10.	4.5	88
24	Modelling of aqueous solvation of eosin Y at the rutile TiO2(110)/water interface. <i>Chemical Physics Letters</i> , 2006, 430, 375-379.	1.2	15
25	Broadband Femtosecond Fluorescence Spectroscopy of [Ru(bpy)3]2+. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3174-3176.	7.2	251
26	A setup for ultrafast time-resolved x-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2004, 75, 24-30.	0.6	91
27	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
28	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
29	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
30	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
31	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
32	Low-Intensity Pump-Probe Measurements on the B800 Band of <i>Rhodospirillum rubrum</i> . <i>Biophysical Journal</i> , 2003, 84, 440-449.	0.2	29
33	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
34	Steady-state spectroscopy of zinc-bacteriopheophytin containing LH1 in an in vitro and in silico study. <i>Chemical Physics</i> , 2002, 275, 31-45.	0.9	4
35	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
36	Energy Transfer in the B800 Rings of the Peripheral Bacterial Light-Harvesting Complexes of <i>Rhodospseudomonas Acidophila</i> and <i>Rhodospirillum Rubrum</i> Studied with Photon Echo Techniques. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11395-11408.	1.2	57

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37	Primary Charge Separation Routes in the BChl:BPhe Heterodimer Reaction Centers of Rhodobacter sphaeroides. <i>Biochemistry</i> , 1999, 38, 7545-7555.	1.2	41
38	Energy Transfer in the B800 Ring of Light Harvesting Antenna Lh2 of Purple Bacteria rps. <i>Acidophila</i> and rs. <i>Molischianum</i> Probed by Three Pulse Echo Peakshift. , 1999, , 191-193.		0
39	Title is missing!. <i>Photosynthesis Research</i> , 1998, 55, 141-146.	1.6	11
40	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
41	Polarized and Colored Photon Echo Measurements on the LH2 Antenna of RPS. <i>Acidophila</i> and RS. <i>Molischianum</i> . , 1998, , 45-48.		0
42	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
43	Superradiance and Exciton Delocalization in Bacterial Photosynthetic Light-Harvesting Systems. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7241-7248.	1.2	378
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	SPECTRAL INHOMOGENEITY OF THE LIGHT-HARVESTING ANTENNA OF <i>Rhodospirillum rubrum</i> PROBED BY TRIPLET-TO-SINGLET SPECTROSCOPY AND SINGLET-TO-TRIPLET ANNIHILATION AT LOW TEMPERATURES. <i>Photochemistry and Photobiology</i> , 1993, 57, 19-23.	1.3	23
54	Inhomogeneous spectral broadening of the B820 subunit form of LH1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 238-244.	0.5	42

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55	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-dipropylsulfoxide. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1100, 259-266.	0.5	28
56	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
57	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