Rolf Diller

List of Publications by Year
in descending order

68 papers	1,765 citations	279798 23 h-index	276875 41 g-index
71 all docs	71 docs citations	71 times ranked	1643 citing authors

#	Article	IF	Citations
1	Femtosecond Infrared Spectroscopy of Bacteriorhodopsin Chromophore Isomerization. Science, 2002, 297, 822-825.	12.6	213
2	Ultrafast Dynamics of Phytochrome from the Cyanobacterium Synechocystis, Reconstituted with Phycocyanobilin and Phycoerythrobilin. Biophysical Journal, 2002, 82, 1004-1016.	0.5	109
3	Kinetic resonance Raman studies reveal different conformational states of bacteriorhodopsin. Biochemistry, 1988, 27, 7641-7651.	2.5	80
4	Ultrafast Infrared Spectroscopy of Riboflavin: Dynamics, Electronic Structure, and Vibrational Mode Analysis. Journal of Physical Chemistry B, 2008, 112, 13424-13432.	2.6	79
5	Sub-picosecond time resolved infrared spectroscopy of high-spin state formation in Fe(ii) spin crossover complexes. Physical Chemistry Chemical Physics, 2008, 10, 4264.	2.8	70
6	Resonance Raman and optical transient studies on the light-induced proton pump of bacteriorhodopsin reveal parallel photocycles. Biochemistry, 1993, 32, 7196-7215.	2.5	67
7	The yrast bands in 77Kr and 76Kr. Nuclear Physics A, 1984, 431, 170-188.	1.5	54
8	Picosecond dynamics of bacteriorhodopsin, probed by time-resolved infrared spectroscopy. Biochemistry, 1992, 31, 5567-5572.	2.5	53
9	Subâ€Picosecond Midâ€Infrared Spectroscopy of Phytochrome Agp1 from Agrobacterium tumefaciens. ChemPhysChem, 2007, 8, 1657-1663.	2.1	53
10	Vibrational Spectroscopy of Monoâ€and Polynuclear Spinâ€Crossover Systems. European Journal of Inorganic Chemistry, 2012, 2012, 2635-2648.	2.0	50
11	A luminescent Pt₂Fe spin crossover complex. Dalton Transactions, 2017, 46, 2289-2302.	3.3	49
12	Resonance Raman study of intermediates of the halorhodopsin photocycle. FEBS Letters, 1987, 217, 297-304.	2.8	48
13	Photochemical quantum yield of bacteriorhodopsin from resonance Raman scattering as a probe for photolysis. Chemical Physics, 1989, 131, 17-29.	1.9	45
14	Unusual Spectral Properties of Bacteriophytochrome Agp2 Result from a Deprotonation of the Chromophore in the Red-absorbing Form Pr. Journal of Biological Chemistry, 2013, 288, 31738-31751.	3.4	45
15	Transient IR spectroscopy and ab initio calculations on ESIPT in 3-hydroxyflavone solvated in acetonitrile. Physical Chemistry Chemical Physics, 2012, 14, 15007.	2.8	43
16	Femtosecond time-resolved infrared laser study of the Jâ”K transition of bacteriorhodopsin. Chemical Physics Letters, 1995, 241, 109-115.	2.6	41
17	Primary reaction dynamics of halorhodopsin, observed by sub-picosecond IR â€“ vibrational spectroscopy. Chemical Physics, 2006, 323, 109-116.	1.9	40
18	Subpicosecond Midinfrared Spectroscopy of the Pfr Reaction of Phytochrome Agp1 from Agrobacterium tumefaciens. Biophysical Journal, 2008, 94, 3189-3197.	0.5	38

#	Article	IF	Citations
19	Combined Theoretical and Experimental Study of Spin and Charge Dynamics on the Homodinuclear Complex<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">[</mml:mo><mml:msubsup><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn><mml:mi>II</mml:mi></mml:msubsup><m		

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37	High-repetition-rate infrared-pump, infrared-probe spectrometer. Applied Optics, 1991, 30, 5247.	2.1	13
38	Ultrafast Protein Conformational Alterations in Bacteriorhodopsin and Its Locked Analogue BR5.12. Journal of Physical Chemistry B, 2009, 113, 7851-7860.	2.6	13
39	Real-time observation of molecular flattening and intersystem crossing in [(DPEPhos)Cu(<scp>i</scp>)(PyrTet)] via ultrafast UV/Vis- and mid-IR spectroscopy on solution and solid samples. Physical Chemistry Chemical Physics, 2020, 22, 14187-14200.	2.8	13
40	Anisotropy studies of ultrafast dipole reorientations. Journal of Chemical Sciences, 1991, 103, 351-362.	1.5	13
41	Ultrafast deactivation of bilirubin: dark intermediates and two-photon isomerization. Physical Chemistry Chemical Physics, 2016, 18, 7148-7155.	2.8	12
42	Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 8818-8822.	13.8	12
43	Fe(ii) complex with the octadentate btpa ligand: a DFT study on a spin-crossover system that reveals two distinct high-spin states. Physical Chemistry Chemical Physics, 2009, 11, 7562.	2.8	11
44	Excited-State Dynamics of Protochlorophyllide Revealed by Subpicosecond Infrared Spectroscopy. Biophysical Journal, 2011, 100, 260-267.	0.5	11
45	In-depth exploration of the photophysics of a trinuclear palladium complex. Physical Chemistry Chemical Physics, 2014, 16, 8332-8338.	2.8	10
46	Characterization of the light induced excited spin state of a heterometallic FePt2 complex by high-field MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2017, 238, 1.	0.5	10
47	Vibrational relaxation during the retinal isomerization in Bacteriorhodopsin. Chemical Physics Letters, 1998, 295, 47-55.	2.6	8
48	Metalâ€toâ€Metal Distance Modulated Au(I)/Ru(II) Cyclophanyl Complexes: Cooperative Effects in Photoredox Catalysis. Chemistry - A European Journal, 2021, 27, 15188-15201.	3.3	8
49	Femtosecond Dynamics in the Lactim Tautomer of Phycocyanobilin: A Longâ€Wavelength Absorbing Model Compound for the Phytochrome Chromophore. ChemPhysChem, 2014, 15, 3824-3831.	2.1	6
50	Photoinitiated Charge Transfer in a Triangular Silver(I) Hydride Complex and Its Oxophilicity. Chemistry - A European Journal, 2019, 25, 11269-11284.	3.3	6
51	Ultrafast proton release reaction and primary photochemistry of phycocyanobilin in solution observed with fs-time-resolved mid-IR and UV/Vis spectroscopy. Photochemical and Photobiological Sciences, 2021, 20, 715-732.	2.9	5
52	Photodynamics and Luminescence of Monoâ€and Triâ€Nuclear Lanthanide Complexes in the Gas Phase and in Solution. ChemPhysChem, 2018, 19, 3050-3060.	2.1	4
53	Photoinitiated Charge Transfer in a Triangular Silver(I) Hydride Complex and Its Oxophilicity. Chemistry - A European Journal, 2019, 25, 11176.	3.3	4
54	Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am 161 Dyâ€Kern. Angewandte Chemie, 2020, 132, 8902-8907.	2.0	4

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55	Wavelength-specific optoacoustic-induced vibrations of the guinea pig tympanic membrane. Journal of Biomedical Optics, 2021, 26, .	2.6	3
56	Ultrafast Infrared Spectroscopy of Protein Dynamics. Springer Series in Chemical Physics, 1993, , 517-521.	0.2	3
57	Miscellanea. Femtosecond infrared spectroscopy on bacteriorhodopsin using a broad band carbon monoxide laser. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 2103-2106.	0.9	2
58	Femtosecond Time Resolved Infrared Spectroscopy of the Ethylenic Stretch Vibration During the all-Trans to 13-Cis Isomerization of Bacteriorhodopsin. Laser Chemistry, 1999, 19, 173-178.	0.5	1
59	Ultrafast infrared spectroscopic studies of condensed-phase systems. , 1992, , .		0
60	Photoinduced Processes in Cobalt-Complexes: Condensed Phase and Gas Phase. EPJ Web of Conferences, 2013, 41, 05045.	0.3	0
61	Ulrtrafast Water Dynamics in Bacteriorhodopsin. Biophysical Journal, 2014, 106, 613a.	0.5	0
62	Excited state vibrational coherence in a binuclear metal adduct: wave packet phase dependant molecular fragmentation under variation of ligand size. EPJ Web of Conferences, 2019, 205, 09019.	0.3	0
63	Frontispiz: Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹Dyâ€Kern. Angewandte Chemie, 2020, 132, .	2.0	0
64	Frontispiece: Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
65	Picosecond Infrared Spectroscopy of the Photosynthetic Reaction Center. Springer Proceedings in Physics, 1994, , 223-226.	0.2	0
66	Single and Double Mutants of Bacteriorhodopsin and their Impact on Photoisomerization. Springer Series in Chemical Physics, 1998, , 681-683.	0.2	0
67	Infrared Spectroscopy of Protein Dynamics: Ultrafast Kinetics. , 2018, , 1-7.		0
68	Gold Rush in Dynamics? Time-resolved Ion Spectroscopy Reveals Ultrafast Processes in Isomorphic, Ligated Ag/Au Coinage Metal Dimers. , 2020, , .		0