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	Wavelength-specific optoacoustic-induced vibrations of the guinea pig tympanic membrane. Journal of Biomedical Optics, 2021, 26, .	2.6	3
2	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
3	Timeâ€Resolved Spectroscopy and Electronic Structure of Monoâ€and Dinuclear Pyridylâ€Triazole/DPEPhosâ€Based Cu(I) Complexes. Chemistry - A European Journal, 2021, 27, 15252-15271.	3.3	14
4	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
5	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
6	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
7	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
8	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
9	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
10	Gold Rush in Dynamics? Time-resolved Ion Spectroscopy Reveals Ultrafast Processes in Isomorphic, Ligated Ag/Au Coinage Metal Dimers. , 2020, , .		0
11	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
12	Photoinitiated Charge Transfer in a Triangular Silver(I) Hydride Complex and Its Oxophilicity. Chemistry - A European Journal, 2019, 25, 11176.	3.3	4
13	Photoinitiated Charge Transfer in a Triangular Silver(I) Hydride Complex and Its Oxophilicity. Chemistry - A European Journal, 2019, 25, 11269-11284.	3.3	6
14	Vibrational Coherence Controls Molecular Fragmentation: Ultrafast Photodynamics of the [Ag₂Cl]⁺ Scaffold. Journal of Physical Chemistry Letters, 2018, 9, 804-810.	4.6	14
15	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
16	Infrared Spectroscopy of Protein Dynamics: Ultrafast Kinetics. , 2018, , 1-7.		0
17	A luminescent Pt₂Fe spin crossover complex. Dalton Transactions, 2017, 46, 2289-2302.	3.3	49
18	Spectroscopic, Structural, and Kinetic Investigation of the Ultrafast Spin Crossover in an Unusual Cobalt(II) Semiquinonate Radical Complex. Chemistry - A European Journal, 2017, 23, 2119-2132.	3.3	36

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19	Photophysical dynamics of a binuclear Cu(<scp>i</scp>)-emitter on the fs to Î¼s timescale, in solid phase and in solution. Physical Chemistry Chemical Physics, 2017, 19, 29438-29448.	2.8	23
20	Ultrafast excited-state relaxation of a binuclear Ag(i) phosphine complex in gas phase and solution. Physical Chemistry Chemical Physics, 2017, 19, 22785-22800.	2.8	18
21	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
22	Ultrafast deactivation of bilirubin: dark intermediates and two-photon isomerization. Physical Chemistry Chemical Physics, 2016, 18, 7148-7155.	2.8	12
23	Spectroscopic Investigation on the Primary Photoreaction of Bathy Phytochrome Agp2â€Pr of <i>Agrobacterium fabrum</i>: Isomerization in a pHâ€dependent Hâ€bond Network. ChemPhysChem, 2016, 17, 1288-1297.	2.1	15
24	Time-resolved IR spectroscopy of a trinuclear palladium complex in solution. Physical Chemistry Chemical Physics, 2015, 17, 14138-14144.	2.8	23
25	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
26	In-depth exploration of the photophysics of a trinuclear palladium complex. Physical Chemistry Chemical Physics, 2014, 16, 8332-8338.	2.8	10
27	Excited-state dynamics of a ruthenium(II) catalyst studied by transient photofragmentation in gas phase and transient absorption in solution. Chemical Physics, 2014, 442, 53-61.	1.9	24
28	Ulrtrafast Water Dynamics in Bacteriorhodopsin. Biophysical Journal, 2014, 106, 613a.	0.5	0
29	ESIPT and Photodissociation of 3-Hydroxychromone in Solution: Photoinduced Processes Studied by Static and Time-Resolved UV/Vis, Fluorescence, and IR Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 11233-11245.	2.5	33
30	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
31	Photoinduced Processes in Cobalt-Complexes: Condensed Phase and Gas Phase. EPJ Web of Conferences, 2013, 41, 05045.	0.3	0
32	Vibrational properties of the polymeric spin crossover (SCO) Fe(ii) complexes [{Fe(4-amino-1,2,4-triazole)3}X2]n: a nuclear inelastic scattering (NIS), Raman and DFT study. Physical Chemistry Chemical Physics, 2012, 14, 14650.	2.8	23
33	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	Excited-State Dynamics of Protochlorophyllide Revealed by Subpicosecond Infrared Spectroscopy. Biophysical Journal, 2011, 100, 260-267.	0.5	11
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	Primary Photoinduced Protein Response in Bacteriorhodopsin and Sensory Rhodopsin II. Journal of the American Chemical Society, 2009, 131, 14868-14878.	13.7	18
40	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
41	Subpicosecond Midinfrared Spectroscopy of the Pfr Reaction of Phytochrome Agp1 from Agrobacterium tumefaciens. Biophysical Journal, 2008, 94, 3189-3197.	0.5	38
42	Ultrafast Infrared Spectroscopy of Riboflavin: Dynamics, Electronic Structure, and Vibrational Mode Analysis. Journal of Physical Chemistry B, 2008, 112, 13424-13432.	2.6	79
43	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
44	Subâ€Picosecond Midâ€Infrared Spectroscopy of Phytochrome Agp1 from Agrobacterium tumefaciens. ChemPhysChem, 2007, 8, 1657-1663.	2.1	53
45	Primary reaction dynamics of halorhodopsin, observed by sub-picosecond IR â€“ vibrational spectroscopy. Chemical Physics, 2006, 323, 109-116.	1.9	40
46	Thetransâ€“cis isomerization reaction dynamics in sensory rhodopsin II by femtosecond time-resolved midinfrared spectroscopy: Chromophore and protein dynamics. Biopolymers, 2006, 82, 358-362.	2.4	15
47	Femtosecond Infrared Spectroscopy of Bacteriorhodopsin Chromophore Isomerization. Science, 2002, 297, 822-825.	12.6	213
48	Ultrafast Dynamics of Phytochrome from the Cyanobacterium Synechocystis, Reconstituted with Phycocyanobilin and Phycoerythrobilin. Biophysical Journal, 2002, 82, 1004-1016.	0.5	109
49	Reaction Control in Bacteriorhodopsin:Â Impact of Arg82 and Asp85 on the Fast Retinal Isomerization, Studied in the Second Site Revertant Arg82Ala/Gly231Cys and Various Purple and Blue Forms of Bacteriorhodopsin. Journal of Physical Chemistry B, 2000, 104, 6053-6058.	2.6	22
50	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
51	Vibrational relaxation during the retinal isomerization in Bacteriorhodopsin. Chemical Physics Letters, 1998, 295, 47-55.	2.6	8
52	Single and Double Mutants of Bacteriorhodopsin and their Impact on Photoisomerization. Springer Series in Chemical Physics, 1998, , 681-683.	0.2	0
53	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
54	Femtosecond time-resolved infrared laser study of the Jâ€™K transition of bacteriorhodopsin. Chemical Physics Letters, 1995, 241, 109-115.	2.6	41

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55	Picosecond Infrared Spectroscopy of the Photosynthetic Reaction Center. Springer Proceedings in Physics, 1994, , 223-226.	0.2	0
56	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
57	Picosecond infrared studies of the dynamics of the photosynthetic reaction center.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5247-5251.	7.1	31
58	Ultrafast Infrared Spectroscopy of Protein Dynamics. Springer Series in Chemical Physics, 1993, , 517-521.	0.2	3
59	Ultrafast infrared spectroscopic studies of condensed-phase systems. , 1992, , .		0
60	Picosecond dynamics of bacteriorhodopsin, probed by time-resolved infrared spectroscopy. Biochemistry, 1992, 31, 5567-5572.	2.5	53
61	High-repetition-rate infrared-pump, infrared-probe spectrometer. Applied Optics, 1991, 30, 5247.	2.1	13
62	Ultrafast infrared spectroscopy of bacteriorhodopsin. Biophysical Journal, 1991, 60, 286-289.	0.5	30
63	Anisotropy studies of ultrafast dipole reorientations. Journal of Chemical Sciences, 1991, 103, 351-362.	1.5	13
64	Photochemical quantum yield of bacteriorhodopsin from resonance Raman scattering as a probe for photolysis. Chemical Physics, 1989, 131, 17-29.	1.9	45
65	Kinetic resonance Raman studies reveal different conformational states of bacteriorhodopsin. Biochemistry, 1988, 27, 7641-7651.	2.5	80
66	Resonance Raman study of intermediates of the halorhodopsin photocycle. FEBS Letters, 1987, 217, 297-304.	2.8	48
67	Decay of three-particle high spin states in85Y. Zeitschrift FÃ¼r Physik A, 1985, 321, 659-669.	1.4	23
68	The yrast bands in 77Kr and 76Kr. Nuclear Physics A, 1984, 431, 170-188.	1.5	54