

# Patrick Nuernberger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4640920/publications.pdf>

Version: 2024-02-01

85  
papers

2,174  
citations

201674

27  
h-index

233421

45  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Excited-State Proton Transfer Dynamics of a Superphotoacid in Acetone-Water Mixtures. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	5
2	Ultrafast photochemistry of a molybdenum carbonyl-nitrosyl complex with a triazacyclononane ligand. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24187-24199.	2.8	2
3	Tracing absorption and emission characteristics of halogen-bonded ion pairs involving halogenated imidazolium species. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7480-7494.	2.8	1
4	Extended Hydrogen Bond Networks for Effective Proton-Coupled Electron Transfer (PCET) Reactions: The Unexpected Role of Thiophenol and Its Acidic Channel in Photocatalytic Hydroamidations. <i>Journal of the American Chemical Society</i> , 2021, 143, 724-735.	13.7	30
5	Unveiling Luminescent Ir <sup>I</sup> and Rh <sup>I</sup> N-heterocyclic Carbene Complexes: Structure, Photophysical Specifics, and Cellular Localization in the Endoplasmic Reticulum. <i>Chemistry - A European Journal</i> , 2021, 27, 6783-6794.	3.3	10
6	Ionic Liquids [M <sup>3+</sup> ][A <sup>3-</sup> ] <sub>3</sub> with Threevalent Cations and Their Possible Use to Easily Separate Rare Earth Metals. <i>Chemistry - A European Journal</i> , 2021, 27, 13052-13058.	3.3	3
7	Thermodynamic driving forces of guest confinement in a photoswitchable cage. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7321-7332.	2.8	15
8	Sensitivity of Isomerization Kinetics of 1,3,5-Triphenylformazan on Cosolvents Added to Toluene. <i>Journal of Organic Chemistry</i> , 2021, . .	3.2	3
9	Photochemically Induced Ring Opening of Spirocyclopropyl Oxindoles: Evidence for a Triplet 1,3-diradical Intermediate and Deracemization by a Chiral Sensitizer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21640-21647.	13.8	53
10	Relaxation Dynamics of the Triazene Compound Berenil in DNA-Minor-Groove Confinement after Photoexcitation. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5203-5211.	5.3	1
11	How Protic Solvents Determine the Reaction Mechanisms of Diphenylcarbene in Solution. <i>Journal of Organic Chemistry</i> , 2019, 84, 11450-11457.	3.2	8
12	Ultrafast Dynamics of a Fluorescent Tetrazolium Compound in Solution. <i>ChemPhysChem</i> , 2018, 19, 138-147.	2.1	11
13	How a linear triazene photoisomerizes in a volume-conserving fashion. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28075-28087.	2.8	8
14	Impact of kilobar pressures on ultrafast triazene and thiocyanine photodynamics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18169-18175.	2.8	5
15	Temporally shaped Laguerre-Gaussian femtosecond laser beams. <i>Applied Optics</i> , 2018, 57, 3624.	1.8	3
16	Ultrafast Dynamics of a Triazene: Excited-State Pathways and the Impact of Binding to the Minor Groove of DNA and Further Biomolecular Systems. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1986-1992.	4.6	11
17	Benzannulated Re( <i>scpi</i> )-NHC complexes: synthesis, photophysical properties and antimicrobial activity. <i>Dalton Transactions</i> , 2017, 46, 15269-15279.	3.3	32
18	Lösungsmittelmoleküle als Reaktionshelfer. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 992-996.	0.0	0

#	ARTICLE	IF	CITATIONS
19	Generating laser-pulse enantiomers. <i>Optics Express</i> , 2017, 25, 21735.	3.4	6
20	Exploring the Ultrafast Excited-State Intramolecular Proton Transfer (ESIPT) of $\hat{I}^2$ -Diketones in the deep-UV. , 2016, , .		0
21	Identification of photofragmentation patterns in trihalide anions by global analysis of vibrational wavepacket dynamics in broadband transient absorption data. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33287-33302.	2.8	19
22	Excited-state intramolecular proton transfer of 2-acetylindan-1,3-dione studied by ultrafast absorption and fluorescence spectroscopy. <i>Structural Dynamics</i> , 2016, 3, 023606.	2.3	23
23	Competitive solvent-molecule interactions govern primary processes of diphenylcarbene in solvent mixtures. <i>Nature Communications</i> , 2016, 7, 12968.	12.8	36
24	Ultrafast Photogeneration of a Tetrazolinyl Radical. <i>ChemPhysChem</i> , 2015, 16, 3143-3146.	2.1	6
25	Multidimensional Electronic Spectroscopy of Photochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11368-11386.	13.8	96
26	Elucidating photodynamics with ultrafast pulse sequences: pump-repump, multidimensional spectroscopy, and beyond. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
27	Optical discrimination of racemic from achiral solutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6340-6346.	2.8	7
28	Monitoring ultrafast intramolecular proton transfer processes in an unsymmetric $\hat{I}^2$ -diketone. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8459-8466.	2.8	45
29	Discriminating Racemic from Achiral Solutions with Femtosecond Accumulative Spectroscopy. <i>Springer Proceedings in Physics</i> , 2015, , 369-372.	0.2	0
30	The Ultrafast Wolff Rearrangement in the Gas Phase. <i>Springer Proceedings in Physics</i> , 2015, , 180-183.	0.2	0
31	The Ultrafast Wolff Rearrangement in the Gas Phase. , 2014, , .		0
32	Quantum Control Spectroscopy of Competing Reaction Pathways in a Molecular Switch. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11364-11372.	2.5	13
33	Generalized magic angle for time-resolved spectroscopy with laser pulses of arbitrary ellipticity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124014.	1.5	33
34	Ultrafast UV-Induced Photoisomerization of Intramolecularly H-Bonded Symmetric $\hat{I}^2$ -Diketones. <i>Journal of the American Chemical Society</i> , 2014, 136, 14981-14989.	13.7	49
35	Ultrafast photofragment ion spectroscopy of the Wolff rearrangement in 5-diazo Meldrum's acid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7290.	2.8	8
36	Photoisomerization among ring-open merocyanines. II. A computational study. <i>Journal of Chemical Physics</i> , 2014, 140, 224311.	3.0	19

#	ARTICLE	IF	CITATIONS
37	Multidimensional spectroscopy of photoreactivity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4764-4769.	7.1	53
38	Photoisomerization among ring-open merocyanines. I. Reaction dynamics and wave-packet oscillations induced by tunable femtosecond pulses. Journal of Chemical Physics, 2014, 140, 224310.	3.0	35
39	Subpicosecond Kerr-Gate Spectrofluorometry. Methods in Molecular Biology, 2014, 1076, 321-336.	0.9	12
40	Discriminating Racemic from Achiral Solutions with Femtosecond Accumulative Spectroscopy. , 2014, , .		0
41	Ultrafast Photochemistry of a Manganese-Tricarbonyl CO-Releasing Molecule (CORM) in Aqueous Solution. Journal of Physical Chemistry Letters, 2013, 4, 596-602.	4.6	42
42	Tracing the Steps of Photoinduced Chemical Reactions in Organic Molecules by Coherent Two-Dimensional Electronic Spectroscopy Using Triggered Exchange. Physical Review Letters, 2013, 110, 148305.	7.8	25
43	Similarities and Differences in the Optical Response of Perylene-Based Hetero-Bichromophores and Their Monomeric Units. ChemPhysChem, 2013, 14, 1413-1422.	2.1	9
44	A comparative study on chirped-pulse upconversion and direct multichannel MCT detection. Optics Express, 2013, 21, 30693.	3.4	15
45	Coherent two-dimensional electronic spectroscopy in the Soret band of a chiral porphyrin dimer. New Journal of Physics, 2013, 15, 025006.	2.9	15
46	Exploring Higher-Lying Electronic States of a Molecular Switch by Coherent Triggered-Exchange 2D Electronic Spectroscopy. EPJ Web of Conferences, 2013, 41, 05001.	0.3	0
47	Femtosecond Mid-Infrared Study of the Aqueous Solution Photochemistry of a CO-Releasing Molecule (CORM). EPJ Web of Conferences, 2013, 41, 05004.	0.3	0
48	Precise and Rapid Detection of Optical Activity for Accumulative Femtosecond Spectroscopy. EPJ Web of Conferences, 2013, 41, 12011.	0.3	0
49	Precise and rapid detection of optical activity for accumulative femtosecond spectroscopy. Optics Express, 2012, 20, 11838.	3.4	12
50	Ultrafast charge-transfer dynamics of donor-substituted truxenones. Physical Chemistry Chemical Physics, 2012, 14, 11081.	2.8	3
51	Ultrafast exciton dynamics after Soret- or Q-band excitation of a directly $\hat{1}^2, \hat{1}^2$ -linked bisporphyrin. Physical Chemistry Chemical Physics, 2012, 14, 8038.	2.8	37
52	Initiation and control of catalytic surface reactions with shaped femtosecond laser pulses. Physical Chemistry Chemical Physics, 2012, 14, 1185-1199.	2.8	13
53	Ring-Closure and Isomerization Capabilities of Spiropyran-Derived Merocyanine Isomers. Journal of Physical Chemistry A, 2011, 115, 3924-3935.	2.5	53
54	Impact of Pulse Polarization on Coherent Vibrational Ladder Climbing Signals. Journal of Physical Chemistry B, 2011, 115, 5554-5563.	2.6	13

#	ARTICLE	IF	CITATIONS
55	Strong Ligand-Protein Interactions Revealed by Ultrafast Infrared Spectroscopy of CO in the Heme Pocket of the Oxygen Sensor FixL. <i>Journal of the American Chemical Society</i> , 2011, 133, 17110-17113.	13.7	22
56	Reaction Dynamics of a Molecular Switch Unveiled by Coherent Two-Dimensional Electronic Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 13074-13080.	13.7	59
57	Simultaneous observation of ultrafast ligand dissociation and docking-site trapping in heme proteins using upconversion infrared spectroscopy. , 2010, , .		0
58	Femtosecond quantum control of molecular bond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10366-10370.	7.1	54
59	Ultrafast Multisequential Photochemistry of 5-Diazo Meldrum's Acid. <i>Journal of the American Chemical Society</i> , 2010, 132, 15213-15222.	13.7	31
60	Ultrafast Bidirectional Photoswitching of a Spiropyran. <i>Journal of the American Chemical Society</i> , 2010, 132, 16510-16519.	13.7	128
61	Multiply Excited Vibration of Carbon Monoxide in the Primary Docking Site of Hemoglobin Following Photolysis from the Heme. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2077-2081.	4.6	21
62	Direct mid-infrared femtosecond pulse shaping with a calomel acousto-optic programmable dispersive filter. <i>Optics Letters</i> , 2010, 35, 3565.	3.3	30
63	Coherent two-dimensional ultraviolet spectroscopy in fully noncollinear geometry. <i>Optics Letters</i> , 2010, 35, 4178.	3.3	72
64	Photoswitching cycle of a nitro-substituted spiropyran: Ring-opening and ring-closure dynamics. , 2010, , .		0
65	Multiply excited vibrational states of docking-site CO simultaneously observed with ground-state bleach after photolysis from heme proteins. , 2010, , .		0
66	Polarization-shaped femtosecond laser pulses in the ultraviolet. <i>Journal of Optics</i> , 2009, 11, 085202.	1.5	19
67	Differences and analogies between linearly chirped and colored double pulses in the femtosecond regime. <i>Optics Communications</i> , 2009, 282, 227-235.	2.1	13
68	Femtosecond Spectroscopy from the Perspective of a Global Multidimensional Response Function. <i>Accounts of Chemical Research</i> , 2009, 42, 1433-1441.	15.6	5
69	Suppression of perturbed free-induction decay and noise in experimental ultrafast pump-probe data. <i>Optics Letters</i> , 2009, 34, 3226.	3.3	18
70	Unobtrusive interferometer tracking by path length oscillation for multidimensional spectroscopy. <i>Optics Express</i> , 2009, 17, 12379.	3.4	9
71	Removing cross-phase modulation from midinfrared chirped-pulse upconversion spectra. <i>Optics Express</i> , 2009, 17, 18738.	3.4	88
72	Surface Femtochemistry: Investigation and Optimization of Bond-Forming Chemical Reactions. <i>Springer Series in Chemical Physics</i> , 2009, , 445-447.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Generation of polarization-shaped ultraviolet femtosecond pulses. <i>Optics Letters</i> , 2008, 33, 803.	3.3	32
74	Molecular dump processes induced by chirped laser pulses. <i>Journal of Chemical Physics</i> , 2008, 129, 074303.	3.0	9
75	Properties of wave packets deduced from quantum control fitness landscapes. <i>Europhysics Letters</i> , 2007, 80, 53001.	2.0	23
76	Femtosecond quantum control of molecular dynamics in the condensed phase. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2470.	2.8	263
77	Generation of shaped ultraviolet pulses at the third harmonic of titanium-sapphire femtosecond laser radiation. <i>Applied Physics B: Lasers and Optics</i> , 2007, 88, 519-526.	2.2	33
78	Femtosecond laser-assisted catalytic surface reactions of syngas and their optimization by tailored laser pulses. <i>Springer Series in Chemical Physics</i> , 2007, , 237-239.	0.2	2
79	Generation of femtosecond pulse sequences in the ultraviolet by spectral phase modulation. , 2006, 6187, 151.		3
80	Femtosecond pump-“shaped-dump quantum control of retinal isomerization in bacteriorhodopsin. <i>Chemical Physics Letters</i> , 2006, 433, 211-215.	2.6	58
81	Femtosecond study on the isomerization dynamics of NK88. I. Ground-state dynamics after photoexcitation. <i>Journal of Chemical Physics</i> , 2006, 125, 044512.	3.0	28
82	Femtosecond study on the isomerization dynamics of NK88. II. Excited-state dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 044513.	3.0	28
83	Rotation-translation device for condensed-phase spectroscopy with small sample volumes. <i>Review of Scientific Instruments</i> , 2006, 77, 083113.	1.3	12
84	Analysis of femtosecond quantum control mechanisms with colored double pulses. <i>Physical Review A</i> , 2006, 74, .	2.5	50
85	Optimal Control of Photoisomerization. <i>Physical Review Letters</i> , 2005, 94, 068305.	7.8	161