Ulrich E Steiner

List of Publications by Year
in descending order

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77 papers	3,077 citations	257450 24 h-index	155660 55 g-index
79 all docs	79 docs citations	79 times ranked	2160 citing authors

#	Article	IF	Citations
1	Rapid glycoconjugation with glycosyl amines. Chemical Science, 2021, 12, 14901-14906.	7.4	4
2	Mapping 13C hyperfine couplings and exchange interactions in short-lived charge separated states of rigid donorâ€“bridgeâ€“acceptor dyads. Journal of Chemical Physics, 2021, 155, 224201.	3.0	2
3	Readout of spin quantum beats in a charge-separated radical pair by pump-push spectroscopy. Science, 2021, 374, 1470-1474.	12.6	25
4	Giant magnetic field effects in donorâ€“acceptor triads: On the charge separation and recombination dynamics in triarylamineâ€“naphthalenediimide triads with bis-diyprrinato-palladium(II), porphodimethenato-palladium(II), and palladium(II)â€“porphyrin photosensitizers. Journal of Chemical Physics, 2020, 153, 054306.	3.0	7
5	Spin-chemical effects on intramolecular photoinduced charge transfer reactions in bisphenanthroline copper(<scp>i</scp>)-viologen dyad assemblies. Chemical Science, 2020, 11, 5511-5525.	7.4	0
6	Positive electronic exchange interaction and predominance of minor triplet channel in CIDNP formation in short lived charge separated states of D-X-A dyads. Journal of Chemical Physics, 2020, 152, 014203.	3.0	13
7	How Small Heterocycles Make a Reaction Network of Amino Acids and Nucleotides Efficient in Water. Angewandte Chemie - International Edition, 2019, 58, 13087-13092.	13.8	25
8	How Small Heterocycles Make a Reaction Network of Amino Acids and Nucleotides Efficient in Water. Angewandte Chemie, 2019, 131, 13221-13226.	2.0	8
9	Magnetic field effects in rigidly linked D-A dyads: Extreme on-resonance quantum coherence effect on charge recombination. Journal of Chemical Physics, 2019, 151, 244308.	3.0	11
10	Nanoviscosity effect on the spin chemistry of an electron donor/Pt-complex /electron acceptor triad - classical and quantum kinetics interpretation. Molecular Physics, 2019, 117, 2632-2644.	1.7	6
11	Fine tuning of electron transfer and spin chemistry parameters in triarylamineâ€“bridgeâ€“naphthalene diimide dyads by bridge substituents. Physical Chemistry Chemical Physics, 2018, 20, 27093-27104.	2.8	15
12	J-Resonance Line Shape of Magnetic Field-Affected Reaction Yield Spectrum from Charge Recombination in a Linked Donorâ€“Acceptor Dyad. Journal of Physical Chemistry C, 2018, 122, 11701-11708.	3.1	24
13	Delocalization of Coherent Triplet Excitons in Linear Rigid Rod Conjugated Oligomers. Journal of Physical Chemistry Letters, 2017, 8, 690-695.	4.6	12
14	Ribonucleotides and RNA Promote Peptide Chain Growth. Angewandte Chemie - International Edition, 2017, 56, 1219-1223.	13.8	35
15	Ribonucleotides and RNA Promote Peptide Chain Growth. Angewandte Chemie, 2017, 129, 1239-1243.	2.0	10
16	Optical Detection of Photorelease Kinetics on Gold and Glass Surfaces using Streptavidinâ€Coupled Biotinylated Photolabile Protecting Groups for Nucleosides. ChemPhysChem, 2017, 18, 2890-2898.	2.1	0
17	Photoexcited Triplet State Kinetics Studied by Electron Paramagnetic Resonance Spectroscopy. ChemPhysChem, 2017, 18, 6-16.	2.1	34
18	The Quantum Dynamical Basis of a Classical Kinetic Scheme Describing Coherent and Incoherent Regimes of Radical Pair Recombination. Zeitschrift Fur Physikalische Chemie, 2017, 231, 197-223.	2.8	11

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19	Complete Monitoring of Coherent and Incoherent Spin Flip Domains in the Recombination of Charge-Separated States of Donor-Iridium Complex-Acceptor Triads. Journal of the American Chemical Society, 2015, 137, 11011-11021.	13.7	55
20	Large protonation-gated photochromism of an OPE-embedded difurylperfluorocyclopentene. Physical Chemistry Chemical Physics, 2015, 17, 6066-6075.	2.8	9
21	The strength of the template effect attracting nucleotides to naked DNA. Nucleic Acids Research, 2014, 42, 7409-7420.	14.5	51
22	Fundamentals of Photophysics, Photochemistry, and Photobiology. , 2014, , 25-58.		6
23	Optical switching of radical pair conformation enhances magnetic sensitivity. Chemical Physics Letters, 2013, 572, 106-110.	2.6	6
24	Diffusion-controlled sensitization of photocleavage reactions on surfaces. Photochemical and Photobiological Sciences, 2012, 11, 533-538.	2.9	8
25	Pronounced effects on switching efficiency of diarylcycloalkenes upon cycloalkene ring contraction. Chemical Communications, 2012, 48, 11355.	4.1	16
26	Charge Transport Characteristics of Diarylethene Photoswitching Single-Molecule Junctions. Nano Letters, 2012, 12, 3736-3742.	9.1	163
27	Magnetic field effect on recombination of nitric oxide and superoxide anion in high magnetic field. Doklady Physical Chemistry, 2011, 436, 5-7.	0.9	3
28	The Excited Triplet State of Azoalkanes: Electron Spin Polarization and Magnetic Field Effects During Triplet-Sensitized Photolysis of trans-Azocumene in Solution. Applied Magnetic Resonance, 2011, 41, 155-173.	1.2	1
29	Kinetic Magneticâ€Field Effect Involving the Small Biologically Relevant Inorganic Radicals NO and O₂^{.â˜}. ChemPhysChem, 2011, 12, 1714-1728.	2.1	28
30	Inside Cover: Kinetic Magnetic-Field Effect Involving the Small Biologically Relevant Inorganic Radicals NO and O2.â˜ (ChemPhysChem 9/2011). ChemPhysChem, 2011, 12, 1602-1602.	2.1	0
31	Synthesis and Photoswitching Studies of Difurylperfluorocyclopentenes with Extended Ï€â€Systems. Chemistry - A European Journal, 2011, 17, 6663-6672.	3.3	30
32	Templating efficiency of naked DNA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12074-12079.	7.1	62
33	X-ray Photoelectron Spectroscopy- and Surface Plasmon Resonance-Detected Photo Release of Photolabile Protecting Groups from Nucleoside Self-Assembled Monolayers on Gold Surfaces. Langmuir, 2009, 25, 10794-10801.	3.5	3
34	Intramolecular Sensitization of Photocleavage of the Photolabile 2â€(2â€Nitrophenyl)propoxycarbonyl (NPPOC) Protecting Group: Photoproducts and Photokinetics of the Release of Nucleosides. Chemistry - A European Journal, 2008, 14, 6490-6497.	3.3	41
35	On the Mechanism of Intramolecular Sensitization of Photocleavage of the 2-(2-Nitrophenyl)propoxycarbonyl (NPPOC) Protecting Group. Journal of the American Chemical Society, 2007, 129, 12148-12158.	13.7	61
36	Spin Chemical Control of Photoinduced Electron-Transfer Processes in Ruthenium(II)-Trisbipyridine-Based Supramolecular Triads:Â 2. The Effect of Oxygen, Sulfur, and Selenium as Heteroatom in the Azine Donor. Journal of Physical Chemistry A, 2007, 111, 3485-3496.	2.5	16

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37	Highly Efficient Photolabile Protecting Groups with Intramolecular Energy Transfer. Angewandte Chemie - International Edition, 2006, 45, 2975-2978.	13.8	41
38	Die Triebkraft chemischer Reaktionen. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2006, 13, 7-10.	0.4	0
39	Synthesis of Caged Nucleosides with Photoremovable Protecting Groups Linked to Intramolecular Antennae. Helvetica Chimica Acta, 2005, 88, 891-904.	1.6	28
40	Polymer-Encapsulated Reverse Micelles:Â A Composite Material Design for the Optical Detection of Weak Magnetic Fields. Chemistry of Materials, 2005, 17, 941-943.	6.7	4
41	Triplet-Sensitized Photodeprotection of Oligonucleotides in Solution and on Microarray Chips. Helvetica Chimica Acta, 2004, 87, 28-45.	1.6	45
42	ChipCheck â€" A Program Predicting Total Hybridization Equilibria for DNA Binding to Small Oligonucleotide Microarrays.. ChemInform, 2004, 35, no.	0.0	0
43	Rapidly Measuring Reactivities of Carboxylic Acids to Generate Equireactive Building Block Mixtures:â€‰ A Spectrometric Assay. ACS Combinatorial Science, 2003, 5, 45-60.	3.3	9
44	ChipCheckA Program Predicting Total Hybridization Equilibria for DNA Binding to Small Oligonucleotide Microarrays. Journal of Chemical Information and Computer Sciences, 2003, 43, 2153-2162.	2.8	18
45	More Efficient Photolithographic Synthesis of DNA-Chips by Photosensitization. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1395-1398.	1.1	12
46	Magnetic field dependence of the deactivation rates of triplet azocumene in solution. Molecular Physics, 2002, 100, 1215-1224.	1.7	5
47	Temperature-Dependent Spin Relaxation:Â A Major Factor in Electron Backward Transfer Following the Quenching of *Ru(bpy)32+by Methyl Viologenâ€. Journal of Physical Chemistry A, 2002, 106, 2207-2217.	2.5	7
48	Solvent effects on the intrinsic enhancement factors of the triplet exciplex generated by photoinduced electron transfer reaction between eosin Y and duroquinone. Molecular Physics, 2002, 100, 1413-1420.	1.7	12
49	Ligand dependence of magnetic spin effects on photooxidation of [Ru(bpy)3â^'n(CN)2n](+2â^'2n) type complexes. Inorganica Chimica Acta, 2002, 338, 133-141.	2.4	7
50	Spin dynamics and zero-field splitting constants of the triplet exciplex generated by photoinduced electron transfer reaction between erythrosin B and duroquinone. Chemical Physics Letters, 2002, 360, 13-21.	2.6	15
51	Enhancement of magnetic field effect in Ru(bpy)32+/MV2+ system by Ru(bpy)32+-Ag+ exciplex formation. Chemical Physics Letters, 2000, 316, 411-418.	2.6	6
52	Formation and Reactions of Tetracarbonyl Intermediates of the Fischer Carbene Complex (CO)5WC(OMe)Ph. A Laser Flash Photolysis Study Using Time-Resolved Infrared and UV/Vis Spectroscopyâ€. Organometallics, 2000, 19, 2354-2364.	2.3	13
53	Spin Chemical Control of Photoinduced Electron-Transfer Processes in Ruthenium(II)-Trisbipyridine-Based Supramolecular Triads. Journal of the American Chemical Society, 1999, 121, 1076-1087.	13.7	63
54	Interference of heavy-atom with magnetic spin effects in spin-correlated micellar radical pairs. Molecular Physics, 1995, 84, 981-994.	1.7	11

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55	Adiabatic rotation of effective spin. I. New insight into spinâ€rotational interaction. Journal of Chemical Physics, 1994, 100, 7503-7507.	3.0	16
56	Magnetic Spin Effects on Photooxidation Quantum Yields of RuII-tris(bipyridine) Type Complexes in Magnetic Fields up to 17.5 Tesla. Angewandte Chemie International Edition in English, 1994, 33, 1772-1775.	4.4	30
57	Magnetische Spineffekte auf Quantenausbeuten der Photooxidation von Komplexen des Ru^{II}â€tris(bipyridin)â€Typs in Magnetfeldern bis zu 17.5 Tesla. Angewandte Chemie, 1994, 106, 1834-1837.	2.0	0
58	Spin chemistry of Ru(II)-trisdiimine complex photooxidation in magnetic fields up to 17.5 tesla. Coordination Chemistry Reviews, 1994, 132, 51-56.	18.8	7
59	Magnetokinetic Probing of Extremely Fast Electron Spin Relaxation in Paramagnetic Ruthenium Complexes*. Zeitschrift Fur Physikalische Chemie, 1993, 182, 297-308.	2.8	19
60	Relaxation of Electronic Angular Momentum in Kramers Systems with Strong Spin-Orbit Coupling. 1. Atomic Radicals in Solution*. Zeitschrift Fur Physikalische Chemie, 1993, 182, 285-295.	2.8	0
61	Spin-orbit coupling induced magnetic field effects in electron-transfer reactions with excited triplets: the role of triplet exciplexes and radical pairs in geminate recombination. The Journal of Physical Chemistry, 1991, 95, 1880-1890.	2.9	41
62	Theoretical Treatment of Magnetic Field Dependent In-cage Backward Electron Transfer During Photooxidation of Ru(II) Complexes. Zeitschrift Fur Physikalische Chemie, 1990, 169, 159-180.	2.8	33
63	Aspects of Ligand and Electron-Acceptor Dependence of Magnetic Field Effects on Net Electron Transfer Efficiencies in Photooxidation of Ru(II)-trisbipyridyl Type Complexes. Zeitschrift Fur Physikalische Chemie, 1990, 169, 147-158.	2.8	12
64	Magnetic field effects in chemical kinetics and related phenomena. Chemical Reviews, 1989, 89, 51-147.	47.7	1,488
65	Spin-orbit coupling and magnetic field effects in photoredox reactions of ruthenium(II) complexes. The Journal of Physical Chemistry, 1989, 93, 5147-5154.	2.9	33
66	1H-benzo[c]pyrazolo[1,2-a]cinnolines: a novel photochromic system. Journal of the Chemical Society Chemical Communications, 1988, , 338-340.	2.0	7
67	An Efficient Continuous Flow Technique for Investigating the Magnetic Field Dependence of Photochemical Quantum Yields. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1985, 89, 1041-1046.	0.9	10
68	Magnetic-field-dependent recombination kinetics of geminate radical pairs in reversed micelles of variable size. Chemical Physics Letters, 1984, 112, 365-370.	2.6	39
69	Magnetic-field-enhanced radical yield from triplet electron-transfer reaction in reversed micelles. Chemical Physics Letters, 1983, 103, 118-123.	2.6	24
70	A triplet mechanism for magnetic field modulation of photochemical quantum yields. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1981, 85, 228-233.	0.9	38
71	Heavy Atom Substituents as Molecular Probes for Solvent Effects on the Dynamics of Shortâ€lived Triplet Exciplexes. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 1203-1214.	0.9	22
72	Spin-selective depopulation of triplet sublevels in rapidly rotating triplet exciplexes detected by a heavy-atom-induced magnetic field effect. Chemical Physics Letters, 1980, 74, 108-112.	2.6	26

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73	Magnetic Field Effect on the Radical Yield of Electron Transfer Reactions Between a Dye Triplet and Heavy Atom Substituted Electron Donors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1979, 34, 1093-1098.	1.5	21
74	Position dependent heavy atom effect in physical triplet quenching by electron donors. Chemical Physics Letters, 1978, 55, 364-368.	2.6	49
75	Investigation of physical triplet quenching by electron donors. The Journal of Physical Chemistry, 1977, 81, 1104-1110.	2.9	52
76	Physical Triplet Quenching by Electron Donors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1976, 31, 1019-1021.	1.5	3
77	Spin Relaxation in Ru-Chromophore-Linked Azine/Diquat Radical Pairs. , 0, , 205-220.		0