

# 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  | Magnetic field effects in chemical kinetics and related phenomena. <i>Chemical Reviews</i> , 1989, 89, 51-147.  | 47.7 | 1,488     |
| 2  | Charge Transport Characteristics of Diarylethene Photoswitching Single-Molecule Junctions. <i>Nano Letters</i> , 2012, 12, 3736-3742.   | 9.1  | 163       |
| 3  | Spin Chemical Control of Photoinduced Electron-Transfer Processes in Ruthenium(II)-Trisbipyridine-Based Supramolecular Triads. <i>Journal of the American Chemical Society</i> , 1999, 121, 1076-1087.  | 13.7 | 63        |
| 4  | Templating efficiency of naked DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12074-12079.  | 7.1  | 62        |
| 5  | On the Mechanism of Intramolecular Sensitization of Photocleavage of the 2-(2-Nitrophenyl)propoxycarbonyl (NPPOC) Protecting Group. <i>Journal of the American Chemical Society</i> , 2007, 129, 12148-12158.   | 13.7 | 61        |
| 6  | Complete Monitoring of Coherent and Incoherent Spin Flip Domains in the Recombination of Charge-Separated States of Donor-Iridium Complex-Acceptor Triads. <i>Journal of the American Chemical Society</i> , 2015, 137, 11011-11021.                    | 13.7 | 55        |
| 7  | Investigation of physical triplet quenching by electron donors. <i>The Journal of Physical Chemistry</i> , 1977, 81, 1104-1110.   | 2.9  | 52        |
| 8  | The strength of the template effect attracting nucleotides to naked DNA. <i>Nucleic Acids Research</i> , 2014, 42, 7409-7420.   | 14.5 | 51        |
| 9  | Position dependent heavy atom effect in physical triplet quenching by electron donors. <i>Chemical Physics Letters</i> , 1978, 55, 364-368.   | 2.6  | 49        |
| 10 | Triplet-Sensitized Photodeprotection of Oligonucleotides in Solution and on Microarray Chips. <i>Helvetica Chimica Acta</i> , 2004, 87, 28-45.  | 1.6  | 45        |
| 11 | 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. <i>The Journal of Physical Chemistry</i> , 1991, 95, 1880-1890.    | 2.9  | 41        |
| 12 | Highly Efficient Photolabile Protecting Groups with Intramolecular Energy Transfer. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2975-2978.   | 13.8 | 41        |
| 13 | Intramolecular Sensitization of Photocleavage of the Photolabile 2-(2-Nitrophenyl)propoxycarbonyl (NPPOC) Protecting Group: Photoproducts and Photokinetics of the Release of Nucleosides. <i>Chemistry - A European Journal</i> , 2008, 14, 6490-6497. | 3.3  | 41        |
| 14 | Magnetic-field-dependent recombination kinetics of geminate radical pairs in reversed micelles of variable size. <i>Chemical Physics Letters</i> , 1984, 112, 365-370.  | 2.6  | 39        |
| 15 | A triplet mechanism for magnetic field modulation of photochemical quantum yields. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1981, 85, 228-233.   | 0.9  | 38        |
| 16 | Ribonucleotides and RNA Promote Peptide Chain Growth. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1219-1223.   | 13.8 | 35        |
| 17 | Photoexcited Triplet State Kinetics Studied by Electron Paramagnetic Resonance Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 6-16.  | 2.1  | 34        |
| 18 | Spin-orbit coupling and magnetic field effects in photoredox reactions of ruthenium(II) complexes. <i>The Journal of Physical Chemistry</i> , 1989, 93, 5147-5154.  | 2.9  | 33        |

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|----|---|------|-----------|
| 19 | Theoretical Treatment of Magnetic Field Dependent In-cage Backward Electron Transfer During Photooxidation of Ru(II) Complexes. <i>Zeitschrift Fur Physikalische Chemie</i> , 1990, 169, 159-180.   | 2.8  | 33        |
| 20 | Magnetic Spin Effects on Photooxidation Quantum Yields of Ru(II)-tris(bipyridine) Type Complexes in Magnetic Fields up to 17.5 Tesla. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1772-1775.  | 4.4  | 30        |
| 21 | Synthesis and Photoswitching Studies of Difurylperfluorocyclopentenes with Extended $\pi$ -Systems. <i>Chemistry - A European Journal</i> , 2011, 17, 6663-6672.  | 3.3  | 30        |
| 22 | Synthesis of Caged Nucleosides with Photoremovable Protecting Groups Linked to Intramolecular Antennae. <i>Helvetica Chimica Acta</i> , 2005, 88, 891-904.  | 1.6  | 28        |
| 23 | Kinetic Magnetic Field Effect Involving the Small Biologically Relevant Inorganic Radicals NO and $O_2$ . <i>ChemPhysChem</i> , 2011, 12, 1714-1728.  | 2.1  | 28        |
| 24 | Spin-selective depopulation of triplet sublevels in rapidly rotating triplet exciplexes detected by a heavy-atom-induced magnetic field effect. <i>Chemical Physics Letters</i> , 1980, 74, 108-112.  | 2.6  | 26        |
| 25 | How Small Heterocycles Make a Reaction Network of Amino Acids and Nucleotides Efficient in Water. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13087-13092.   | 13.8 | 25        |
| 26 | Readout of spin quantum beats in a charge-separated radical pair by pump-push spectroscopy. <i>Science</i> , 2021, 374, 1470-1474.  | 12.6 | 25        |
| 27 | Magnetic-field-enhanced radical yield from triplet electron-transfer reaction in reversed micelles. <i>Chemical Physics Letters</i> , 1983, 103, 118-123.   | 2.6  | 24        |
| 28 | $J$ -Resonance Line Shape of Magnetic Field-Affected Reaction Yield Spectrum from Charge Recombination in a Linked Donor-Acceptor Dyad. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11701-11708.  | 3.1  | 24        |
| 29 | Heavy Atom Substituents as Molecular Probes for Solvent Effects on the Dynamics of Short-Lived Triplet Exciplexes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1980, 84, 1203-1214.   | 0.9  | 22        |
| 30 | Magnetic Field Effect on the Radical Yield of Electron Transfer Reactions Between a Dye Triplet and Heavy Atom Substituted Electron Donors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1979, 34, 1093-1098.                             | 1.5  | 21        |
| 31 | Magnetokinetic Probing of Extremely Fast Electron Spin Relaxation in Paramagnetic Ruthenium Complexes*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1993, 182, 297-308.   | 2.8  | 19        |
| 32 | ChipCheckA Program Predicting Total Hybridization Equilibria for DNA Binding to Small Oligonucleotide Microarrays. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 2153-2162.  | 2.8  | 18        |
| 33 | Adiabatic rotation of effective spin. I. New insight into spin-rotational interaction. <i>Journal of Chemical Physics</i> , 1994, 100, 7503-7507.   | 3.0  | 16        |
| 34 | Spin Chemical Control of Photoinduced Electron-Transfer Processes in Ruthenium(II)-Trisbipyridine-Based Supramolecular Triads: 2. The Effect of Oxygen, Sulfur, and Selenium as Heteroatom in the Azine Donor. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3485-3496. | 2.5  | 16        |
| 35 | Pronounced effects on switching efficiency of diarylcycloalkenes upon cycloalkene ring contraction. <i>Chemical Communications</i> , 2012, 48, 11355.   | 4.1  | 16        |
| 36 | Spin dynamics and zero-field splitting constants of the triplet exciplex generated by photoinduced electron transfer reaction between erythrosin B and duroquinone. <i>Chemical Physics Letters</i> , 2002, 360, 13-21.   | 2.6  | 15        |

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|----|---|------|-----------|
| 37 | Fine tuning of electron transfer and spin chemistry parameters in triarylamine-bridge-naphthalene diimide dyads by bridge substituents. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27093-27104.   | 2.8  | 15        |
| 38 | Formation and Reactions of Tetracarbonyl Intermediates of the Fischer Carbene Complex (CO) <sub>5</sub> WC(OMe)Ph. A Laser Flash Photolysis Study Using Time-Resolved Infrared and UV/Vis Spectroscopy. <i>Organometallics</i> , 2000, 19, 2354-2364. | 2.3  | 13        |
| 39 | Positive electronic exchange interaction and predominance of minor triplet channel in CIDNP formation in short lived charge separated states of D-X-A dyads. <i>Journal of Chemical Physics</i> , 2020, 152, 014203.                                  | 3.0  | 13        |
| 40 | Aspects of Ligand and Electron-Acceptor Dependence of Magnetic Field Effects on Net Electron Transfer Efficiencies in Photooxidation of Ru(II)-trisbipyridyl Type Complexes. <i>Zeitschrift Fur Physikalische Chemie</i> , 1990, 169, 147-158.        | 2.8  | 12        |
| 41 | Solvent effects on the intrinsic enhancement factors of the triplet exciplex generated by photoinduced electron transfer reaction between eosin Y and duroquinone. <i>Molecular Physics</i> , 2002, 100, 1413-1420.                                   | 1.7  | 12        |
| 42 | More Efficient Photolithographic Synthesis of DNA-Chips by Photosensitization. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1395-1398.   | 1.1  | 12        |
| 43 | Delocalization of Coherent Triplet Excitons in Linear Rigid Rod Conjugated Oligomers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 690-695.  | 4.6  | 12        |
| 44 | Interference of heavy-atom with magnetic spin effects in spin-correlated micellar radical pairs. <i>Molecular Physics</i> , 1995, 84, 981-994.  | 1.7  | 11        |
| 45 | The Quantum Dynamical Basis of a Classical Kinetic Scheme Describing Coherent and Incoherent Regimes of Radical Pair Recombination. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 197-223.   | 2.8  | 11        |
| 46 | Magnetic field effects in rigidly linked D-A dyads: Extreme on-resonance quantum coherence effect on charge recombination. <i>Journal of Chemical Physics</i> , 2019, 151, 244308.  | 3.0  | 11        |
| 47 | An Efficient Continuous Flow Technique for Investigating the Magnetic Field Dependence of Photochemical Quantum Yields. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985, 89, 1041-1046.  | 0.9  | 10        |
| 48 | Ribonucleotides and RNA Promote Peptide Chain Growth. <i>Angewandte Chemie</i> , 2017, 129, 1239-1243.  | 2.0  | 10        |
| 49 | Rapidly Measuring Reactivities of Carboxylic Acids to Generate Equireactive Building Block Mixtures: A Spectrometric Assay. <i>ACS Combinatorial Science</i> , 2003, 5, 45-60.  | 3.3  | 9         |
| 50 | Large protonation-gated photochromism of an OPE-embedded difurylperfluorocyclopentene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6066-6075.  | 2.8  | 9         |
| 51 | Diffusion-controlled sensitization of photocleavage reactions on surfaces. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 533-538.   | 2.9  | 8         |
| 52 | How Small Heterocycles Make a Reaction Network of Amino Acids and Nucleotides Efficient in Water. <i>Angewandte Chemie</i> , 2019, 131, 13221-13226.  | 2.0  | 8         |
| 53 | 1H-benzo[c]pyrazolo[1,2-a]cinnolines: a novel photochromic system. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 338-340.  | 2.0  | 7         |
| 54 | Spin chemistry of Ru(II)-trisdiimine complex photooxidation in magnetic fields up to 17.5 tesla. <i>Coordination Chemistry Reviews</i> , 1994, 132, 51-56.  | 18.8 | 7         |

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|----|--|-----|-----------|
| 55 | Temperature-Dependent Spin Relaxation: A Major Factor in Electron Backward Transfer Following the Quenching of $^*Ru(bpy)_3^{2+}$ by Methyl Viologen. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2207-2217.   | 2.5 | 7         |
| 56 | Ligand dependence of magnetic spin effects on photooxidation of $[Ru(bpy)_3]^{2+}$ -(CN) <sub>2</sub> type complexes. <i>Inorganica Chimica Acta</i> , 2002, 338, 133-141.   | 2.4 | 7         |
| 57 | Giant magnetic field effects in donor-acceptor triads: On the charge separation and recombination dynamics in triarylamine-naphthalenediimide triads with bis-diypyrrinato-palladium(II), porphodimethenato-palladium(II), and palladium(II)-porphyrin photosensitizers. <i>Journal of Chemical Physics</i> , 2020, 153, 054306. | 3.0 | 7         |
| 58 | Enhancement of magnetic field effect in $Ru(bpy)_3^{2+}/MV^{2+}$ system by $Ru(bpy)_3^{2+}$ -Ag <sup>+</sup> exciplex formation. <i>Chemical Physics Letters</i> , 2000, 316, 411-418.   | 2.6 | 6         |
| 59 | Optical switching of radical pair conformation enhances magnetic sensitivity. <i>Chemical Physics Letters</i> , 2013, 572, 106-110.  | 2.6 | 6         |
| 60 | Nanoviscosity effect on the spin chemistry of an electron donor/Pt-complex /electron acceptor triad - classical and quantum kinetics interpretation. <i>Molecular Physics</i> , 2019, 117, 2632-2644.  | 1.7 | 6         |
| 61 | Fundamentals of Photophysics, Photochemistry, and Photobiology. , 2014, , 25-58.   |     | 6         |
| 62 | Magnetic field dependence of the deactivation rates of triplet azocumene in solution. <i>Molecular Physics</i> , 2002, 100, 1215-1224.   | 1.7 | 5         |
| 63 | Polymer-Encapsulated Reverse Micelles: A Composite Material Design for the Optical Detection of Weak Magnetic Fields. <i>Chemistry of Materials</i> , 2005, 17, 941-943.   | 6.7 | 4         |
| 64 | Rapid glycoconjugation with glycosyl amines. <i>Chemical Science</i> , 2021, 12, 14901-14906.  | 7.4 | 4         |
| 65 | Physical Triplet Quenching by Electron Donors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1976, 31, 1019-1021.   | 1.5 | 3         |
| 66 | X-ray Photoelectron Spectroscopy- and Surface Plasmon Resonance-Detected Photo Release of Photolabile Protecting Groups from Nucleoside Self-Assembled Monolayers on Gold Surfaces. <i>Langmuir</i> , 2009, 25, 10794-10801.   | 3.5 | 3         |
| 67 | Magnetic field effect on recombination of nitric oxide and superoxide anion in high magnetic field. <i>Dořlady Physical Chemistry</i> , 2011, 436, 5-7.  | 0.9 | 3         |
| 68 | Mapping <sup>13</sup> C hyperfine couplings and exchange interactions in short-lived charge separated states of rigid donor-bridge-acceptor dyads. <i>Journal of Chemical Physics</i> , 2021, 155, 224201.   | 3.0 | 2         |
| 69 | The Excited Triplet State of Azoalkanes: Electron Spin Polarization and Magnetic Field Effects During Triplet-Sensitized Photolysis of trans-Azocumene in Solution. <i>Applied Magnetic Resonance</i> , 2011, 41, 155-173.   | 1.2 | 1         |
| 70 | Relaxation of Electronic Angular Momentum in Kramers Systems with Strong Spin-Orbit Coupling. 1. Atomic Radicals in Solution*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1993, 182, 285-295.   | 2.8 | 0         |
| 71 | Magnetische Spineffekte auf Quantenausbeuten der Photooxidation von Komplexen des $Ru^{II}$ -tris(bipyridin)-typs in Magnetfeldern bis zu 17.5 Tesla. <i>Angewandte Chemie</i> , 1994, 106, 1834-1837.   | 2.0 | 0         |
| 72 | ChipCheck - A Program Predicting Total Hybridization Equilibria for DNA Binding to Small Oligonucleotide Microarrays.. <i>ChemInform</i> , 2004, 35, no.   | 0.0 | 0         |

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|----|--|-----|-----------|
| 73 | Die Triebkraft chemischer Reaktionen. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2006, 13, 7-10.  | 0.4 | 0         |
| 74 | Spin Relaxation in Ru-Chromophore-Linked Azine/Diquat Radical Pairs. , 0, , 205-220.   |     | 0         |
| 75 | Inside Cover: Kinetic Magnetic-Field Effect Involving the Small Biologically Relevant Inorganic Radicals NO and O <sub>2</sub> . <sup>•-</sup> (ChemPhysChem 9/2011). ChemPhysChem, 2011, 12, 1602-1602. | 2.1 | 0         |
| 76 | 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         |
| 77 | Spin-chemical effects on intramolecular photoinduced charge transfer reactions in bisphenanthroline copper( <i>scp</i> )-viologen dyad assemblies. Chemical Science, 2020, 11, 5511-5525.                | 7.4 | 0         |