

Arnulf Rosspeintner

List of Publications by Year in descending order

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72
papers

2,990
citations

159525

30
h-index

168321

53
g-index

74
all docs

74
docs citations

74
times ranked

3212
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrafast Elementary Photochemical Processes of Organic Molecules in Liquid Solution. <i>Chemical Reviews</i> , 2017, 117, 10826-10939. | 23.0 | 327 |
| 2 | A Straightforward Synthesis and Structure–Activity Relationship of Highly Efficient Initiators for Two-Photon Polymerization. <i>Macromolecules</i> , 2013, 46, 352-361. | 2.2 | 158 |
| 3 | Direct Visualization of Excited-State Symmetry Breaking Using Ultrafast Time-Resolved Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 4643-4649. | 6.6 | 157 |
| 4 | Ultrafast Photochemistry in Liquids. <i>Annual Review of Physical Chemistry</i> , 2013, 64, 247-271. | 4.8 | 156 |
| 5 | Recalling the appropriate representation of electronic spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 727-731. | 2.0 | 111 |
| 6 | Symmetry-Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15624-15628. | 7.2 | 107 |
| 7 | Acygermanes: Photoinitiators and Sources for Ge-Centered Radicals. Insights into their Reactivity. <i>Journal of the American Chemical Society</i> , 2013, 135, 17314-17321. | 6.6 | 95 |
| 8 | Structure–Activity Relationship in D–A–D-Based Photoinitiators for the Two-Photon-Induced Photopolymerization Process. <i>Macromolecules</i> , 2009, 42, 6519-6528. | 2.2 | 92 |
| 9 | Bimolecular Photoinduced Electron Transfer Beyond the Diffusion Limit: The Rehm–Weller Experiment Revisited with Femtosecond Time Resolution. <i>Journal of the American Chemical Society</i> , 2014, 136, 2026-2032. | 6.6 | 88 |
| 10 | Excited-State Symmetry Breaking in a Quadrupolar Molecule Visualized in Time and Space. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6029-6034. | 2.1 | 82 |
| 11 | Synthesis and structure–activity relationship of several aromatic ketone-based two-photon initiators. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3688-3699. | 2.5 | 80 |
| 12 | Bimolecular Photoinduced Electron Transfer in Imidazolium-Based Room-Temperature Ionic Liquids Is Not Faster than in Conventional Solvents. <i>Journal of the American Chemical Society</i> , 2012, 134, 3729-3736. | 6.6 | 70 |
| 13 | White-Fluorescent Dual-Emission Mechanosensitive Membrane Probes that Function by Bending Rather than Twisting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10559-10563. | 7.2 | 67 |
| 14 | Femtosecond broadband fluorescence upconversion spectroscopy: Spectral coverage versus efficiency. <i>Review of Scientific Instruments</i> , 2016, 87, 053115. | 0.6 | 60 |
| 15 | Specific Monitoring of Excited-State Symmetry Breaking by Femtosecond Broadband Fluorescence Upconversion Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5878-5883. | 2.1 | 58 |
| 16 | The Rehm–Weller Experiment in View of Distant Electron Transfer. <i>Chemistry - A European Journal</i> , 2008, 14, 6213-6221. | 1.7 | 57 |
| 17 | Real-Time Observation of the Formation of Excited Radical Ions in Bimolecular Photoinduced Charge Separation: Absence of the Marcus Inverted Region Explained. <i>Journal of the American Chemical Society</i> , 2013, 135, 9843-9848. | 6.6 | 56 |
| 18 | Solvent tuning of photochemistry upon excited-state symmetry breaking. <i>Nature Communications</i> , 2020, 11, 1925. | 5.8 | 54 |

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|----|---|-----|-----------|
| 19 | Spurious Observation of the Marcus Inverted Region in Bimolecular Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2012, 134, 11396-11399. | 6.6 | 50 |
| 20 | Time-Resolved Magnetic Field Effects Distinguish Loose Ion Pairs from Exciplexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 15144-15152. | 6.6 | 49 |
| 21 | Cooperative enhancement versus additivity of two-photon-absorption cross sections in linear and branched squaraine superchromophores. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16404-16413. | 1.3 | 49 |
| 22 | A biocompatible macromolecular two-photon initiator based on hyaluronan. <i>Polymer Chemistry</i> , 2017, 8, 451-460. | 1.9 | 49 |
| 23 | Turn-On Sulfide π -Donors: An Ultrafast Push for Twisted Mechanophores. <i>Journal of the American Chemical Society</i> , 2015, 137, 15644-15647. | 6.6 | 44 |
| 24 | Excited State and Injection Dynamics of Triphenylamine Sensitizers Containing a Benzothiazole Electron-Accepting Group on TiO_2 and Al_2O_3 Thin Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28509-28519. | 1.5 | 41 |
| 25 | Fully Reversible Interconversion between Locally Excited Fluorophore, Exciplex, and Radical Ion Pair Demonstrated by a New Magnetic Field Effect. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 960-962. | 7.2 | 38 |
| 26 | Magnetic field effects on exciplex-forming systems: the effect on the locally excited fluorophore and its dependence on free energy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3446-3460. | 1.3 | 37 |
| 27 | Bimolecular photoinduced electron transfer reactions in liquids under the gaze of ultrafast spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25741-25754. | 1.3 | 36 |
| 28 | Direct Observation of a Photochemical Alkyne \rightarrow Allene Reaction and of a Twisted and Rehybridized Intramolecular Charge-Transfer State in a Donor \rightarrow Acceptor Dyad. <i>Journal of the American Chemical Society</i> , 2017, 139, 16885-16893. | 6.6 | 35 |
| 29 | On the Coherent Description of Diffusion-Influenced Fluorescence Quenching Experiments. <i>Chemistry - A European Journal</i> , 2007, 13, 6474-6483. | 1.7 | 34 |
| 30 | Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines. <i>Scientific Reports</i> , 2018, 8, 17273. | 1.6 | 32 |
| 31 | Characterization of dimethylsulfoxide/glycerol mixtures: a binary solvent system for the study of μ -friction-dependent \rightarrow chemical reactivity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18460-18469. | 1.3 | 31 |
| 32 | On the Coherent Description of Diffusion \rightarrow Influenced Fluorescence Quenching Experiments \rightarrow ...II: Early Events. <i>Chemistry - A European Journal</i> , 2010, 16, 2291-2299. | 1.7 | 30 |
| 33 | Machine Learning for Analysis of Time-Resolved Luminescence Data. <i>ACS Photonics</i> , 2018, 5, 4888-4895. | 3.2 | 29 |
| 34 | Influence of Solvent Relaxation on Ultrafast Excited-State Proton Transfer to Solvent. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4516-4521. | 2.1 | 28 |
| 35 | Excited-State Dynamics of 3-Hydroxyflavone Anion in Alcohols. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2434-2443. | 1.2 | 27 |
| 36 | Influence of the hydrogen-bond interactions on the excited-state dynamics of a push \rightarrow pull azobenzene dye: the case of Methyl Orange. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7254-7264. | 1.3 | 27 |

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|----|--|-----|-----------|
| 37 | Optical transient absorption experiments reveal the failure of formal kinetics in diffusion assisted electron transfer reactions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25531-25546. | 1.3 | 26 |
| 38 | Probe dependence on polar solvation dynamics from fs broadband fluorescence. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8815-8825. | 1.3 | 25 |
| 39 | White-Fluorescent Dual-Emission Mechanosensitive Membrane Probes that Function by Bending Rather than Twisting. <i>Angewandte Chemie</i> , 2018, 130, 10719-10723. | 1.6 | 22 |
| 40 | Toward the Photoinduced Reactivity of 1,5-Diphenylpenta-1,4-diyne-3-one (DPD): Real-Time Investigations by Magnetic Resonance. <i>Macromolecules</i> , 2009, 42, 8034-8038. | 2.2 | 21 |
| 41 | Symmetry-Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry. <i>Angewandte Chemie</i> , 2016, 128, 15853-15857. | 1.6 | 21 |
| 42 | Highly Stable and Red-Emitting Nanovesicles Incorporating Lipophilic Diketopyrrolopyrroles for Cell Imaging. <i>Chemistry - A European Journal</i> , 2018, 24, 11386-11392. | 1.7 | 20 |
| 43 | Photophysical properties of 2,6-dicyano-N,N,N'-N'-tetramethyl-p-phenylenediamine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 183, 225-235. | 2.0 | 19 |
| 44 | Driving Force Dependence of Charge Recombination in Reactive and Nonreactive Solvents. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9473-9483. | 1.1 | 18 |
| 45 | Photoinitiators with λ^2 -Phenylogous Cleavage: An Evaluation of Reaction Mechanisms and Performance. <i>Macromolecules</i> , 2012, 45, 1737-1745. | 2.2 | 18 |
| 46 | Initiators Based on Benzaldoximes: Bimolecular and Covalently Bound Systems. <i>Macromolecules</i> , 2012, 45, 8648-8657. | 2.2 | 16 |
| 47 | How good is the generalized Langevin equation to describe the dynamics of photo-induced electron transfer in fluid solution?. <i>Journal of Chemical Physics</i> , 2017, 146, 244505. | 1.2 | 16 |
| 48 | Towards efficient initiators for two-photon induced polymerization: fine tuning of the donor/acceptor properties. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 437-448. | 1.7 | 16 |
| 49 | Synthesis and photophysical properties of 2,6-dicyano-p-phenylenediamine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 220, 54-63. | 2.0 | 15 |
| 50 | Silyl-based initiators for two-photon polymerization: from facile synthesis to quantitative structure-activity relationship analysis. <i>Polymer Chemistry</i> , 2017, 8, 6644-6653. | 1.9 | 15 |
| 51 | Spectroscopic characteristics of a novel highly fluorescent p-phenylenediamine: Tetracyano-p-phenylenediamine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 199, 204-210. | 2.0 | 14 |
| 52 | EPR and ENDOR Studies of Dimeric Paracyclophane Radical Cations and Dications Containing Tri- and Pentamethylene-Bridged p-Phenylene Diamine Units. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6487-6492. | 1.1 | 14 |
| 53 | Experimental Evidence of the Relevance of Orientational Correlations in Photoinduced Bimolecular Reactions in Solution. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8814-8825. | 1.1 | 14 |
| 54 | Theory of fluorescence spectrum dynamics and its application to determining the relaxation characteristics of the solvent and intramolecular vibrations. <i>Journal of Molecular Liquids</i> , 2020, 298, 112016. | 2.3 | 14 |

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|----|--|-----|-----------|
| 55 | Beyond the Threshold: A Study of Chalcogenophene-Based Two-Photon Initiators. <i>Chemistry of Materials</i> , 2022, 34, 3042-3052. | 3.2 | 14 |
| 56 | Effect of symmetric and asymmetric substitution on the optoelectronic properties of 9,10-dicyanoanthracene. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 951-961. | 1.7 | 13 |
| 57 | Photophysics of two Prototypical Molecular Wire Building Blocks: Solvent-Induced Conformational Dynamics?. <i>ChemPhysChem</i> , 2010, 11, 1700-1710. | 1.0 | 12 |
| 58 | Broadband fluorescence reveals mechanistic differences in excited-state proton transfer to protic and aprotic solvents. <i>Chemical Science</i> , 2020, 11, 7963-7971. | 3.7 | 12 |
| 59 | Bimolecular photoinduced electron transfer in non-polar solvents beyond the diffusion limit. <i>Journal of Chemical Physics</i> , 2020, 152, 244501. | 1.2 | 12 |
| 60 | Donor-Substituted Diphenylacetylene Derivatives Act as Electron Donors and Acceptors. <i>Journal of Organic Chemistry</i> , 2011, 76, 5628-5635. | 1.7 | 10 |
| 61 | Bimolecular photo-induced electron transfer enlightened by diffusion. <i>Journal of Chemical Physics</i> , 2020, 153, 040902. | 1.2 | 9 |
| 62 | Fundamental Loading-Curve Characteristics of the Persistent Phosphor $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}, \text{B}^{3+}$: The Effect of Temperature and Excitation Density. <i>Advanced Photonics Research</i> , 2022, 3, . | 1.7 | 9 |
| 63 | Salt Effect in Ion-Pair Dynamics after Bimolecular Photoinduced Electron Transfer in a Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7015-7020. | 2.1 | 8 |
| 64 | Propyl acetate/butyronitrile mixture is ideally suited for investigating the effect of dielectric stabilization on (photo)chemical reactions. <i>RSC Advances</i> , 2020, 10, 23682-23689. | 1.7 | 6 |
| 65 | Comment on "Observation of the Marcus Inverted Region for Bimolecular Photoinduced Electron-Transfer Reactions in Viscous Media". <i>Journal of Physical Chemistry B</i> , 2016, 120, 9800-9803. | 1.2 | 5 |
| 66 | Halogen-Bond Assisted Photoinduced Electron Transfer. <i>Molecules</i> , 2019, 24, 4361. | 1.7 | 4 |
| 67 | Full relaxation dynamics recovery from ultrafast fluorescence experiments by means of the stochastic model: Does the solvent response dynamics depend on the fluorophore nature?. <i>Journal of Molecular Liquids</i> , 2022, 360, 119387. | 2.3 | 4 |
| 68 | Comment on "Exothermic Rate Restrictions in Long-Range Photoinduced Charge Separations". <i>Journal of Physical Chemistry A</i> , 2011, 115, 7858-7860. | 1.1 | 2 |
| 69 | Photoinduced Electron Transfer Reactions: From the Elucidation of Old Problems in Bulk Solutions Towards the Exploration of Interfaces. <i>Chimia</i> , 2011, 65, 350-352. | 0.3 | 2 |
| 70 | Comment on "Theoretical Insights into the Excited State Decays of a Donor-Acceptor Dyad: Is the Twisted and Rehybridized Intramolecular Charge-Transfer State Involved?". <i>Journal of Physical Chemistry B</i> , 2020, 124, 10578-10581. | 1.2 | 2 |
| 71 | Novel Highly Potential Initiators for the Two-Photon-Induced Photopolymerization Process. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1179, 27. | 0.1 | 0 |
| 72 | Model-free Investigation of Ultrafast Bimolecular Chemical Reactions: Bimolecular Photo Induced Electron Transfer. <i>EPJ Web of Conferences</i> , 2013, 41, 05041. | 0.1 | 0 |