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	Fundamental Loadingâ€Curve Characteristics of the Persistent Phosphor SrAl₂O₄:Eu²⁺,Dy³⁺,B³⁺: The Effect of Temperature and Excitation Density. Advanced Photonics Research, 2022, 3, .	1.7	9
2	Beyond the Threshold: A Study of Chalcogenophene-Based Two-Photon Initiators. Chemistry of Materials, 2022, 34, 3042-3052.	3.2	14
3	Full relaxation dynamics recovery from ultrafast fluorescence experiments by means of the stochastic model: Does the solvent response dynamics depend on the fluorophore nature?. Journal of Molecular Liquids, 2022, 360, 119387.	2.3	4
4	Theory of fluorescence spectrum dynamics and its application to determining the relaxation characteristics of the solvent and intramolecular vibrations. Journal of Molecular Liquids, 2020, 298, 112016.	2.3	14
5	Comment on â€œTheoretical Insights into the Excited State Decays of a Donorâ€“Acceptor Dyad: Is the Twisted and Rehybridized Intramolecular Charge-Transfer State Involved?â€. Journal of Physical Chemistry B, 2020, 124, 10578-10581.	1.2	2
6	Bimolecular photo-induced electron transfer enlightened by diffusion. Journal of Chemical Physics, 2020, 153, 040902.	1.2	9
7	Propyl acetate/butyronitrile mixture is ideally suited for investigating the effect of dielectric stabilization on (photo)chemical reactions. RSC Advances, 2020, 10, 23682-23689.	1.7	6
8	Broadband fluorescence reveals mechanistic differences in excited-state proton transfer to protic and aprotic solvents. Chemical Science, 2020, 11, 7963-7971.	3.7	12
9	Bimolecular photoinduced electron transfer in non-polar solvents beyond the diffusion limit. Journal of Chemical Physics, 2020, 152, 244501.	1.2	12
10	Solvent tuning of photochemistry upon excited-state symmetry breaking. Nature Communications, 2020, 11, 1925.	5.8	54
11	Effect of symmetric and asymmetric substitution on the optoelectronic properties of 9,10-dicyanoanthracene. Molecular Systems Design and Engineering, 2019, 4, 951-961.	1.7	13
12	Towards efficient initiators for two-photon induced polymerization: fine tuning of the donor/acceptor properties. Molecular Systems Design and Engineering, 2019, 4, 437-448.	1.7	16
13	Halogen-Bond Assisted Photoinduced Electron Transfer. Molecules, 2019, 24, 4361.	1.7	4
14	Influence of the hydrogen-bond interactions on the excited-state dynamics of a pushâ€“pull azobenzene dye: the case of Methyl Orange. Physical Chemistry Chemical Physics, 2018, 20, 7254-7264.	1.3	27
15	Machine Learning for Analysis of Time-Resolved Luminescence Data. ACS Photonics, 2018, 5, 4888-4895.	3.2	29
16	Salt Effect in Ion-Pair Dynamics after Bimolecular Photoinduced Electron Transfer in a Room-Temperature Ionic Liquid. Journal of Physical Chemistry Letters, 2018, 9, 7015-7020.	2.1	8
17	Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines. Scientific Reports, 2018, 8, 17273.	1.6	32
18	Optical transient absorption experiments reveal the failure of formal kinetics in diffusion assisted electron transfer reactions. Physical Chemistry Chemical Physics, 2018, 20, 25531-25546.	1.3	26

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19	Whiteâ€Fluorescent Dualâ€Emission Mechanosensitive Membrane Probes that Function by Bending Rather than Twisting. Angewandte Chemie, 2018, 130, 10719-10723.	1.6	22
20	Highly Stable and Redâ€Emitting Nanovesicles Incorporating Lipophilic Diketopyrrolopyrroles for Cell Imaging. Chemistry - A European Journal, 2018, 24, 11386-11392.	1.7	20
21	Whiteâ€Fluorescent Dualâ€Emission Mechanosensitive Membrane Probes that Function by Bending Rather than Twisting. Angewandte Chemie - International Edition, 2018, 57, 10559-10563.	7.2	67
22	Probe dependence on polar solvation dynamics from fs broadband fluorescence. Physical Chemistry Chemical Physics, 2017, 19, 8815-8825.	1.3	25
23	A biocompatible macromolecular two-photon initiator based on hyaluronan. Polymer Chemistry, 2017, 8, 451-460.	1.9	49
24	Ultrafast Elementary Photochemical Processes of Organic Molecules in Liquid Solution. Chemical Reviews, 2017, 117, 10826-10939.	23.0	327
25	Direct Observation of a Photochemical Alkyneâ€“Allene Reaction and of a Twisted and Rehybridized Intramolecular Charge-Transfer State in a Donorâ€“Acceptor Dyad. Journal of the American Chemical Society, 2017, 139, 16885-16893.	6.6	35
26	Silyl-based initiators for two-photon polymerization: from facile synthesis to quantitative structureâ€“activity relationship analysis. Polymer Chemistry, 2017, 8, 6644-6653.	1.9	15
27	Influence of Solvent Relaxation on Ultrafast Excited-State Proton Transfer to Solvent. Journal of Physical Chemistry Letters, 2017, 8, 4516-4521.	2.1	28
28	Excited-State Symmetry Breaking in a Quadrupolar Molecule Visualized in Time and Space. Journal of Physical Chemistry Letters, 2017, 8, 6029-6034.	2.1	82
29	Specific Monitoring of Excited-State Symmetry Breaking by Femtosecond Broadband Fluorescence Upconversion Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 5878-5883.	2.1	58
30	How good is the generalized Langevin equation to describe the dynamics of photo-induced electron transfer in fluid solution?. Journal of Chemical Physics, 2017, 146, 244505.	1.2	16
31	Femtosecond broadband fluorescence upconversion spectroscopy: Spectral coverage versus efficiency. Review of Scientific Instruments, 2016, 87, 053115.	0.6	60
32	Comment on â€œObservation of the Marcus Inverted Region for Bimolecular Photoinduced Electron-Transfer Reactions in Viscous Mediaâ€• Journal of Physical Chemistry B, 2016, 120, 9800-9803.	1.2	5
33	Symmetryâ€Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry. Angewandte Chemie - International Edition, 2016, 55, 15624-15628.	7.2	107
34	Symmetryâ€Breaking Charge Transfer and Hydrogen Bonding: Toward Asymmetrical Photochemistry. Angewandte Chemie, 2016, 128, 15853-15857.	1.6	21
35	Characterization of dimethylsulfoxide/glycerol mixtures: a binary solvent system for the study of â€œfriction-dependentâ€•chemical reactivity. Physical Chemistry Chemical Physics, 2016, 18, 18460-18469.	1.3	31
36	Cooperative enhancement versus additivity of two-photon-absorption cross sections in linear and branched squaraine superchromophores. Physical Chemistry Chemical Physics, 2016, 18, 16404-16413.	1.3	49

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37	Direct Visualization of Excited-State Symmetry Breaking Using Ultrafast Time-Resolved Infrared Spectroscopy. Journal of the American Chemical Society, 2016, 138, 4643-4649.	6.6	157
38	Turn-On Sulfide Ï€ Donors: An Ultrafast Push for Twisted Mechanophores. Journal of the American Chemical Society, 2015, 137, 15644-15647.	6.6	44
39	Excited-State Dynamics of 3-Hydroxyflavone Anion in Alcohols. Journal of Physical Chemistry B, 2015, 119, 2434-2443.	1.2	27
40	Bimolecular Photoinduced Electron Transfer Beyond the Diffusion Limit: The Rehmâ€“Weller Experiment Revisited with Femtosecond Time Resolution. Journal of the American Chemical Society, 2014, 136, 2026-2032.	6.6	88
41	Bimolecular photoinduced electron transfer reactions in liquids under the gaze of ultrafast spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 25741-25754.	1.3	36
42	Excited State and Injection Dynamics of Triphenylamine Sensitizers Containing a Benzothiazole Electron-Accepting Group on TiO₂ and Al₂O₃ Thin Films. Journal of Physical Chemistry C, 2014, 118, 28509-28519.	1.5	41
43	Experimental Evidence of the Relevance of Orientational Correlations in Photoinduced Bimolecular Reactions in Solution. Journal of Physical Chemistry A, 2013, 117, 8814-8825.	1.1	14
44	Acylgermanes: Photoinitiators and Sources for Ge-Centered Radicals. Insights into their Reactivity. Journal of the American Chemical Society, 2013, 135, 17314-17321.	6.6	95
45	A Straightforward Synthesis and Structureâ€“Activity Relationship of Highly Efficient Initiators for Two-Photon Polymerization. Macromolecules, 2013, 46, 352-361.	2.2	158
46	Ultrafast Photochemistry in Liquids. Annual Review of Physical Chemistry, 2013, 64, 247-271.	4.8	156
47	Real-Time Observation of the Formation of Excited Radical Ions in Bimolecular Photoinduced Charge Separation: Absence of the Marcus Inverted Region Explained. Journal of the American Chemical Society, 2013, 135, 9843-9848.	6.6	56
48	Time-Resolved Magnetic Field Effects Distinguish Loose Ion Pairs from Exciplexes. Journal of the American Chemical Society, 2013, 135, 15144-15152.	6.6	49
49	Model-free Investigation of Ultrafast Bimolecular Chemical Reactions: Bimolecular Photo Induced Electron Transfer. EPJ Web of Conferences, 2013, 41, 05041.	0.1	0
50	Driving Force Dependence of Charge Recombination in Reactive and Nonreactive Solvents. Journal of Physical Chemistry A, 2012, 116, 9473-9483.	1.1	18
51	Photoinitiators with Î²-Phenylogous Cleavage: An Evaluation of Reaction Mechanisms and Performance. Macromolecules, 2012, 45, 1737-1745.	2.2	18
52	Bimolecular Photoinduced Electron Transfer in Imidazolium-Based Room-Temperature Ionic Liquids Is Not Faster than in Conventional Solvents. Journal of the American Chemical Society, 2012, 134, 3729-3736.	6.6	70
53	Initiators Based on Benzaldoximes: Bimolecular and Covalently Bound Systems. Macromolecules, 2012, 45, 8648-8657.	2.2	16
54	Spurious Observation of the Marcus Inverted Region in Bimolecular Photoinduced Electron Transfer. Journal of the American Chemical Society, 2012, 134, 11396-11399.	6.6	50

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55	Magnetic field effects on exciplex-forming systems: the effect on the locally excited fluorophore and its dependence on free energy. Physical Chemistry Chemical Physics, 2011, 13, 3446-3460.	1.3	37
56	Comment on â€œExothermic Rate Restrictions in Long-Range Photoinduced Charge Separationsâ€• Journal of Physical Chemistry A, 2011, 115, 7858-7860.	1.1	2
57	Donor-Substituted Diphenylacetylene Derivatives Act as Electron Donors and Acceptors. Journal of Organic Chemistry, 2011, 76, 5628-5635.	1.7	10
58	Photoinduced Electron Transfer Reactions: From the Elucidation of Old Problems in Bulk Solutions Towards the Exploration of Interfaces. Chimia, 2011, 65, 350-352.	0.3	2
59	Synthesis and structureâ€“activity relationship of several aromatic ketoneâ€“based twoâ€“photon initiators. Journal of Polymer Science Part A, 2011, 49, 3688-3699.	2.5	80
60	Synthesis and photophysical properties of 2,6-dicyano-p-phenylenediamine. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 54-63.	2.0	15
61	Photophysics of two Prototypical Molecularâ€Wire Building Blocks: Solventâ€Induced Conformational Dynamics?. ChemPhysChem, 2010, 11, 1700-1710.	1.0	12
62	On the Coherent Description of Diffusionâ€Influenced Fluorescence Quenching Experimentsâ€…II: Early Events. Chemistry - A European Journal, 2010, 16, 2291-2299.	1.7	30
63	EPR and ENDOR Studies of Dimeric Paracyclophane Radical Cations and Dications Containing Tri- and Pentamethylene-Bridged p-Phenylene Diamine Units. Journal of Physical Chemistry A, 2010, 114, 6487-6492.	1.1	14
64	Novel Highly Potential Initiators for the Two-Photon-Induced Photopolymerization Process. Materials Research Society Symposia Proceedings, 2009, 1179, 27.	0.1	0
65	Toward the Photoinduced Reactivity of 1,5-Diphenylpenta-1,4-diyn-3-one (DPD): Real-Time Investigations by Magnetic Resonance. Macromolecules, 2009, 42, 8034-8038.	2.2	21
66	Structureâ^'Activity Relationship in D-Ï€-A-Ï€-D-Based Photoinitiators for the Two-Photon-Induced Photopolymerization Process. Macromolecules, 2009, 42, 6519-6528.	2.2	92
67	The Rehmâ€“Weller Experiment in View of Distant Electron Transfer. Chemistry - A European Journal, 2008, 14, 6213-6221.	1.7	57
68	Fully Reversible Interconversion between Locally Excited Fluorophore, Exciplex, and Radical Ion Pair Demonstrated by a New Magnetic Field Effect. Angewandte Chemie - International Edition, 2008, 47, 960-962.	7.2	38
69	Spectroscopic characteristics of a novel highly fluorescent p-phenylenediamine: Tetracyano-p-phenylenediamine. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 199, 204-210.	2.0	14
70	On the Coherent Description of Diffusion-Influenced Fluorescence Quenching Experiments. Chemistry - A European Journal, 2007, 13, 6474-6483.	1.7	34
71	Photophysical properties of 2,6-dicyano-N,N,N â€²,N â€²-tetramethyl-p-phenylenediamine. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 225-235.	2.0	19
72	Recalling the appropriate representation of electronic spectra. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 727-731.	2.0	111