

# Andreas N Unterreiner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2981820/publications.pdf>

Version: 2024-02-01

99  
papers

1,645  
citations

279798

23  
h-index

361022

35  
g-index

108  
all docs

108  
docs citations

108  
times ranked

2009  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Three-dimensional multi-photon direct laser writing with variable repetition rate. <i>Optics Express</i> , 2013, 21, 26244.  | 3.4  | 129       |
| 2  | Ultrafast Dephasing of Single Nanoparticles Studied by Two-Pulse Second-Order Interferometry. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2135-2142.   | 2.6  | 75        |
| 3  | Transient spectra, formation, and geminate recombination of solvated electrons in pure water UV-photolysis: an alternative view. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5633-5642.                              | 2.8  | 58        |
| 4  | Pump-probe spectroscopy on photoinitiators for stimulated-emission-depletion optical lithography. <i>Optics Letters</i> , 2011, 36, 3188.  | 3.3  | 54        |
| 5  | Toward a Quantitative Description of Radical Photoinitiator Structure-Reactivity Correlations. <i>Macromolecules</i> , 2016, 49, 80-89.  | 4.8  | 50        |
| 6  | Novel Lanthanide-Based Polymeric Chains and Corresponding Ultrafast Dynamics in Solution. <i>Inorganic Chemistry</i> , 2011, 50, 11990-12000.  | 4.0  | 48        |
| 7  | Unraveling the Influence of Lanthanide Ions on Intra- and Inter-Molecular Electronic Processes in $\text{Fe}_{10}\text{Ln}_{10}$ Nanotubes. <i>Advanced Functional Materials</i> , 2014, 24, 6280-6290.                        | 14.9 | 44        |
| 8  | Femtosecond Relaxation Dynamics of Solvated Electrons in Liquid Ammonia. <i>ChemPhysChem</i> , 2006, 7, 363-369.   | 2.1  | 40        |
| 9  | Photochemical processes in ionic liquids on ultrafast timescales. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1698.   | 2.8  | 37        |
| 10 | Elucidating the Early Steps in Photoinitiated Radical Polymerization via Femtosecond Pump-Probe Experiments and DFT Calculations. <i>Macromolecules</i> , 2012, 45, 2257-2266.   | 4.8  | 37        |
| 11 | Near-Infrared Excitation of the $Q$ Band in Free Base and Zinc Tetraaryl-porphyrins. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1719-1729.  | 2.5  | 35        |
| 12 | Hexamethylcyclopentadiene: time-resolved photoelectron spectroscopy and ab initio multiple spawning simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11770-11779.   | 2.8  | 35        |
| 13 | Excited state dynamics of metastable phthalocyanine-tetrasulfonate tetra-anions probed by pump/probe photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 184301.                                       | 3.0  | 33        |
| 14 | Studying the polymerization initiation efficiency of acetophenone-type initiators via PLP-ESI-MS and femtosecond spectroscopy. <i>Polymer Chemistry</i> , 2014, 5, 5053-5068.  | 3.9  | 33        |
| 15 | Ultrafast Dynamics of $o$ -Nitrophenol: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9225-9235.  | 2.5  | 33        |
| 16 | The rate coefficient of the $\text{C}_3\text{H}_3^+ + \text{C}_3\text{H}_3$ reaction from UV absorption measurements after photolysis of dipropargyl oxalate. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4641-4646. | 2.8  | 30        |
| 17 | Femtosecond-pulse cavity-dumped solid-state oscillator design and application to ultrafast microscopy. <i>Applied Optics</i> , 1999, 38, 7386.   | 2.1  | 28        |
| 18 | Wavelength-Orthogonal Stiffening of Hydrogel Networks with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 13.8 | 28        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Resonant tunneling through the repulsive Coulomb barrier of a quadruply charged molecular anion. <i>Physical Review A</i> , 2012, 85, .  | 2.5 | 27        |
| 20 | Ultrafast Intersystem Crossing in Isolated Ag <sub>29</sub> (BDT) <sub>12</sub> <sup>3-</sup> Probed by Time-Resolved Pump-Probe Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2675-2681.   | 4.6 | 27        |
| 21 | Kinetic investigations of the reactions of toluene and of p-xylene with molecular oxygen between 1050 and 1400 K. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 211-218.  | 0.3 | 26        |
| 22 | Femtosecond UV Excitation in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15718-15724.   | 2.6 | 26        |
| 23 | An In-Depth Mechanistic Investigation of the Radical Initiation Behavior of Monoacylgermanes. <i>Macromolecules</i> , 2017, 50, 8894-8906.   | 4.8 | 24        |
| 24 | Temperature-dependent studies of solvated electrons in liquid water with two and three femtosecond pulse sequences. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4412-4419.   | 2.8 | 22        |
| 25 | Femtosecond transient absorption spectroscopy of single-walled carbon nanotubes in aqueous surfactant suspensions: Determination of the lifetime of the lowest excited state. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 512.   | 2.8 | 22        |
| 26 | Femtosecond pump/probe photoelectron spectroscopy of isolated C60 negative ions. <i>Journal of Chemical Physics</i> , 2006, 125, 074312.   | 3.0 | 22        |
| 27 | Synthesis and Application of Photolithographically Patternable Deep Blue Emitting Poly(3,6-Dimethoxy-9,9-dialkylsilafluorene)s. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 83-93.  | 8.0 | 21        |
| 28 | Chasing BODIPY: Enhancement of Luminescence in Homoleptic Bis(dipyrinato) Zn <sup>II</sup> Complexes Utilizing Symmetric and Unsymmetrical Dipyrins. <i>Chemistry - A European Journal</i> , 2019, 25, 3816-3827.  | 3.3 | 21        |
| 29 | Ultrafast Dynamics of Room Temperature Ionic Liquids after Ultraviolet Femtosecond Excitation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4830-4836.  | 2.6 | 20        |
| 30 | Photodissociation dynamics of IrBr6 <sup>2-</sup> dianions by time-resolved photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 130, 234306.  | 3.0 | 20        |
| 31 | Substituent Effects on Dynamics at Conical Intersections: Cycloheptatrienes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10239-10247.  | 2.5 | 19        |
| 32 | Real-Time Observation of Diarylethene-Based Photoswitches in a Cyclic Peptide Environment. <i>ChemPhotoChem</i> , 2019, 3, 403-410.  | 3.0 | 19        |
| 33 | More than Expected: Overall Initiation Efficiencies of Mono-, Bis-, and Tetraacylgermane Radical Initiators. <i>Macromolecules</i> , 2019, 52, 281-291.  | 4.8 | 19        |
| 34 | Evidence of ultrafast optical switching behaviour in individual single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2387.  | 2.8 | 18        |
| 35 | Electron tunneling from electronically excited states of isolated bisdisulizole-derived trianion chromophores following UV absorption. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6726.  | 2.8 | 18        |
| 36 | The influence of the FeCp(CO) <sub>2</sub> <sup>+</sup> moiety on the dynamics of the metallod [Ge <sub>9</sub> (Si(SiMe <sub>3</sub> ) <sub>3</sub> ) <sub>3</sub> ] <sup>3-</sup> cluster in thf: synthesis and characterization by time-resolved absorption spectroscopy. <i>Dalton Transactions</i> , 2019, 48, 15577-15582. | 3.3 | 18        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | UV-induced photolysis of polyurethanes. <i>Chemical Communications</i> , 2021, 57, 2911-2914.   | 4.1  | 18        |
| 38 | Evidence for laser-induced formation of solvated electrons in room temperature ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3192.   | 2.8  | 17        |
| 39 | Bis(mesityl)phosphinic acid: photo-triggered release of metaphosphorous acid in solution. <i>Chemical Communications</i> , 2016, 52, 9917-9920.   | 4.1  | 17        |
| 40 | Time-resolved photoelectron spectroscopy of a dinuclear Pt(II) complex: Tunneling autodetachment from both singlet and triplet excited states of a molecular dianion. <i>Journal of Chemical Physics</i> , 2016, 144, 054305.   | 3.0  | 17        |
| 41 | Photophysical Properties of Benzoylgermane and <i>para</i> -Substituted Derivatives: Substituent Effects on Electronic Transitions. <i>ChemPhysChem</i> , 2016, 17, 3460-3469.  | 2.1  | 17        |
| 42 | Phenanthroline—A Versatile Ligand for Advanced Functional Polymeric Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 17475-17486.   | 3.3  | 16        |
| 43 | Green-light induced cycloadditions. <i>Chemical Communications</i> , 2021, 57, 3991-3994.   | 4.1  | 15        |
| 44 | d/f—Polynictides Derived by Non-Classical Ln <sup>2+</sup> Compounds: Synthesis, Small Molecule Activation and Optical Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 7862-7871.   | 3.3  | 15        |
| 45 | Direct time-resolved UV-absorption study on the ultrafast internal conversion of cycloheptatriene in solution. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5129-5132.   | 2.8  | 14        |
| 46 | Ga <sub>24</sub> Br <sub>18</sub> Se <sub>2</sub> : A Highly Symmetrical Metalloid Cluster and Its One-Dimensional Arrangement in the Crystalline State as a Model for the Photoconductivity of Solid GaSe. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6549-6552. | 13.8 | 14        |
| 47 | Ultrafast Dynamics of <i>meso</i> -Tetraphenylmetalloporphyrins: The Role of Dark States. <i>ChemPlusChem</i> , 2013, 78, 1244-1251.  | 2.8  | 13        |
| 48 | Photocycloadditions in disparate chemical environments. <i>Chemical Communications</i> , 2020, 56, 14043-14046.   | 4.1  | 13        |
| 49 | Femtosecond spectroscopy of solvated electrons from sodium-ammonia-d <sub>3</sub> solutions: Temperature jump versus local density jump. <i>Journal of Chemical Physics</i> , 2008, 129, 064514.  | 3.0  | 12        |
| 50 | Study of Model Systems for Bilirubin and Bilin Chromophores: Determination and Modification of Thermal and Photochemical Properties. <i>Journal of Organic Chemistry</i> , 2016, 81, 6292-6302.   | 3.2  | 12        |
| 51 | Ultrafast Dephasing of Photoexcited Polarons in Primary Doped Polyaniline. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12866-12873.   | 2.6  | 11        |
| 52 | UV photoexcitation of a dissolved metalloid Ge <sub>9</sub> cluster compound and its extensive ultrafast response. <i>Chemical Communications</i> , 2015, 51, 12278-12281.  | 4.1  | 11        |
| 53 | Significant Fluorescence Enhancement of <i>N,N</i> -Dimethylaminobenzophenone after Embedding as a C-Nucleoside in DNA. <i>ChemPhotoChem</i> , 2018, 2, 12-17.  | 3.0  | 11        |
| 54 | Chain-Length-Dependent Photolysis of <i>ortho</i> -Nitrobenzyl-Centered Polymers. <i>ACS Macro Letters</i> , 2021, 10, 447-452.   | 4.8  | 10        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Relaxation Dynamics upon Ultrashort UV Photo-Excitation of an Iodide Doped Ionic Liquid and of a Pure Lithium Iodide Melt. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 1235-1246.     | 2.8 | 9         |
| 56 | One-photon photodetachment of $I^{\bullet-}$ in glycerol: Spectra and yield of solvated electrons in the temperature range 329 K to 536 K. <i>Journal of Chemical Physics</i> , 2006, 125, 164512. | 3.0 | 9         |
| 57 | The influence of rotational diffusion on transient anisotropy in ultrafast experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 655-666.  | 2.8 | 9         |
| 58 | Acceleration of Long-Range Photoinduced Electron Transfer through DNA by Hydroxyquinolines as Artificial Base Pairs. <i>ChemPhysChem</i> , 2015, 16, 1607-1612.                                    | 2.1 | 9         |
| 59 | Sequence-independent activation of photocycloadditions using two colours of light. <i>Chemical Science</i> , 2022, 13, 531-535.  | 7.4 | 9         |
| 60 | Ultrafast dynamics of excess electrons in a molten salt: Femtosecond investigation of $K^+KCl$ melts. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2934-2937.                             | 2.8 | 8         |
| 61 | A Priori Prediction of Mass Spectrometric Product Patterns of Photoinitiated Polymerizations. <i>ACS Macro Letters</i> , 2018, 7, 132-136.   | 4.8 | 8         |
| 62 | Ultrafast Relaxation Dynamics of Perchlorinated Cycloheptatriene in Solution. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3231-3240.   | 2.5 | 7         |
| 63 | Revealing the Wavelength Dependence of Photochemical Reactions: Cutting-Edge Research in the Teaching Lab. <i>Journal of Chemical Education</i> , 2020, 97, 543-548.                               | 2.3 | 7         |
| 64 | Pump-Probe Spectroscopy of Cycloheptatriene: Transient Anisotropy and Isotope Effect. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005, 219, 389-398.  | 2.8 | 6         |
| 65 | Ultrafast dynamics of excess electrons in molten salts: Part II. Femtosecond investigations of $Na^+NaBr$ and $Na^+NaI$ melts. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3963.         | 2.8 | 6         |
| 66 | Time-resolved polaron dynamics in molten solutions of cesium-doped cesium iodide. <i>Journal of Chemical Physics</i> , 2007, 127, 184509.  | 3.0 | 6         |
| 67 | Transient anisotropy in degenerate systems: A semi-classical approach. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 927-938.   | 2.8 | 6         |
| 68 | On Ligand Binding Energies in Porphyrinic Systems. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, 35-48.   | 2.8 | 6         |
| 69 | Dimolybdenum Paddlewheel as Scaffold for Heterometallic Complexes: Synthesis and Photophysical Properties. <i>Inorganic Chemistry</i> , 2018, 57, 9364-9375.                                       | 4.0 | 6         |
| 70 | Photoexcitation of $Ge_9^{\bullet-}$ Clusters in THF: New Insights into the Ultrafast Relaxation Dynamics and the Influence of the Cation. <i>Molecules</i> , 2020, 25, 2639.                      | 3.8 | 6         |
| 71 | Ultrafast dynamics of solvated electrons in polar liquids. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A165-A171.   | 1.8 | 5         |
| 72 | Vibrational cooling in the liquid phase studied by ultrafast investigations of cycloheptatriene. <i>Molecular Physics</i> , 2009, 107, 2159-2167.  | 1.7 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Ultrafast photoinduced dynamics of halogenated cyclopentadienes: observation of geminate charge-transfer complexes in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6673.            | 2.8 | 5         |
| 74 | Ultrafast stimulated emission of nitrophenolates in organic and aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10713-10720.  | 2.8 | 5         |
| 75 | Indications for an intermolecular photo-induced excited-state proton transfer of <i>p</i> -nitrophenol in water. <i>Molecular Physics</i> , 2021, 119, .  | 1.7 | 4         |
| 76 | Wellenlängen-Orthogonale Versteifung von Hydrogel-Netzwerken mit sichtbarem Licht. <i>Angewandte Chemie</i> , 2022, 134, .  | 2.0 | 4         |
| 77 | Experimental and Theoretical Study of the Ultrafast Dynamics of a Ni <sub>2</sub> Dy <sub>2</sub> Compound in DMF After UV/Vis Photoexcitation. <i>ChemistryOpen</i> , 2021, .                          | 1.9 | 4         |
| 78 | Femtosecond Transient Absorption Spectroscopy of Single-Walled Carbon Nanotubes and their Ultrafast Optical Switching Behavior. <i>Solid State Phenomena</i> , 2007, 121-123, 905-908.                  | 0.3 | 3         |
| 79 | Fluorescence Quenching over Short Range in a Donor-DNA-Acceptor System. <i>ChemPhysChem</i> , 2013, 14, 1197-1204.  | 2.1 | 3         |
| 80 | On the origin of high transient anisotropies: An exemplification in a Cd-porphyrin. <i>Journal of Chemical Physics</i> , 2013, 139, 224309.   | 3.0 | 3         |
| 81 | Installing lactone chain termini during photoinduced polymerization. <i>Polymer Chemistry</i> , 2018, 9, 3336-3341.   | 3.9 | 3         |
| 82 | Transient Anisotropy in Degenerate Systems: Experimental Observation in a Cd-porphyrin. <i>EPJ Web of Conferences</i> , 2013, 41, 05014.  | 0.3 | 2         |
| 83 | Directed Electron Transfer in Flavin Peptides with Oligoproline-Type Helical Conformation as Models for Flavin-Functional Proteins. <i>ChemistryOpen</i> , 2020, 9, 1264-1269.                          | 1.9 | 2         |
| 84 | Ultrafast Dynamics of the First Excited-State of Quasi Monodispersed Single-Walled (9,7) Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23711-23717.                             | 3.1 | 1         |
| 85 | Relaxation Dynamics of Electronically Excited C <sub>60</sub> <sup>+</sup> in <i>o</i> -Dichlorobenzene and Tetrahydrofuran Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 939-956. | 2.8 | 1         |
| 86 | Phenanthroline-A Versatile Ligand for Advanced Functional Polymeric Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 17369-17369.   | 3.3 | 1         |
| 87 | Evidence for ultrafast formation of tribenzoylgermyl radicals originating from tetraacylgermane photoinitiators. <i>Polymer Chemistry</i> , 2020, 11, 3972-3979.  | 3.9 | 1         |
| 88 | Understanding the Photoexcitation of Room Temperature Ionic Liquids. <i>ChemistryOpen</i> , 2021, 10, 72-82.  | 1.9 | 1         |
| 89 | Ultrafast Relaxation Dynamics of the Solvated Electron in Liquid Ammonia. <i>Springer Series in Chemical Physics</i> , 2003, , 468-470.   | 0.2 | 1         |
| 90 | Experimental and Theoretical Study of the Ultrafast Dynamics of a Ni <sub>2</sub> Dy <sub>2</sub> Compound in DMF After UV/Vis Photoexcitation. <i>ChemistryOpen</i> , 2022, 11, e202200086.            | 1.9 | 1         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 91 | Reply to the "Comment on "Direct time-resolved UV-absorption study on the ultrafast internal conversion of cycloheptatriene in solution" by S. A. Trushin, W. Fu and W. E. Schmid, Phys. Chem. Chem. Phys., 2000, 2, 1435. Physical Chemistry Chemical Physics, 2000, 2, 1437-1438. | 2.8  | 0         |
| 92 | ULTRAFAST DYNAMICS OF SOLVATED ELECTRONS IN LIQUID AMMONIA SOLUTIONS. , 2002, , .   |      | 0         |
| 93 | Depletion Mechanisms in STED-inspired Lithography. , 2012, , .  |      | 0         |
| 94 | The interplay of different relaxation channels in the excited state dynamics of photoinitiators. EPJ Web of Conferences, 2013, 41, 05008.   | 0.3  | 0         |
| 95 | Lanthanides: Unraveling the Influence of Lanthanide Ions on Intra- and Inter-Molecular Electronic Processes in Fe <sub>10</sub> Ln <sub>10</sub> Nano-Toruses (Adv. Funct. Mater. 40/2014). Advanced Functional Materials, 2014, 24, 6279-6279.                                     | 14.9 | 0         |
| 96 | Real-Time Observation of Diarylethene-Based Photoswitches in a Cyclic Peptide Environment. ChemPhotoChem, 2019, 3, 265-265.   | 3.0  | 0         |
| 97 | Aqueous Conversion of Fructose Phosphate Precursor Nanoparticles into Emissive Composite Nanoparticles. ChemNanoMat, 2021, 7, 916-926.  | 2.8  | 0         |
| 98 | Ultrafast relaxation dynamics of the solvated electron in liquid ammonia. , 2002, , .   |      | 0         |
| 99 | Femtosecond dynamics of excess electrons in a molten Na-NaBr system. , 2004, , 249-252.   |      | 0         |