

Alexander N Tarnovsky

List of Publications by Year in descending order

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57
papers

1,832
citations

236925

25
h-index

276875

41
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59
all docs

59
docs citations

59
times ranked

2388
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of the Plasmon Resonance in Au/CdS Colloidal Nanocomposites. <i>Nano Letters</i> , 2011, 11, 1792-1799.	9.1	173
2	Radiative Recombination of Spatially Extended Excitons in (ZnSe/CdS)/CdS Heterostructured Nanorods. <i>Journal of the American Chemical Society</i> , 2009, 131, 1328-1334.	13.7	129
3	The Effect of the Charge-Separating Interface on Exciton Dynamics in Photocatalytic Colloidal Heteronanocrystals. <i>ACS Nano</i> , 2012, 6, 8156-8165.	14.6	110
4	Ultrafast Carrier Dynamics in Type II ZnSe/CdS/ZnSe Nanobarbells. <i>ACS Nano</i> , 2010, 4, 1837-1844.	14.6	93
5	Photodissociation dynamics of diiodomethane in solution. <i>Chemical Physics Letters</i> , 1999, 312, 121-130.	2.6	91
6	Enhanced Lifetime of Excitons in Nonepitaxial Au/CdS Core/Shell Nanocrystals. <i>ACS Nano</i> , 2014, 8, 352-361.	14.6	81
7	Photoaffinity Labeling via Nitrenium Ion Chemistry: Protonation of the Nitrene Derived from 4-Amino-3-nitrophenyl Azide to Afford Reactive Nitrenium Ion Pairs. <i>Journal of the American Chemical Society</i> , 2009, 131, 11535-11547.	13.7	62
8	Photochemistry of Diiodomethane in Solution Studied by Femtosecond and Nanosecond Laser Photolysis. Formation and Dark Reactions of the CH ₂ I [•] I Isomer Photoproduct and Its Role in Cyclopropanation of Olefins. <i>Journal of Physical Chemistry A</i> , 2004, 108, 237-249.	2.5	57
9	On the use of two-photon absorption for determination of femtosecond pump-probe cross-correlation functions. <i>Chemical Physics Letters</i> , 2001, 335, 201-208.	2.6	55
10	Photochemistry of copper(II) chlorocomplexes in acetonitrile: Trapping the ligand-to-metal charge transfer excited state relaxations pathways. <i>Chemical Physics Letters</i> , 2014, 615, 105-110.	2.6	46
11	One-Dimensional Carrier Confinement in Giant CdS/CdSe Excitonic Nanoshells. <i>Journal of the American Chemical Society</i> , 2017, 139, 7815-7822.	13.7	44
12	Photodissociation Dynamics of Iodoform in Solution. <i>Journal of Physical Chemistry A</i> , 2003, 107, 211-217.	2.5	42
13	Photoinduced Charge Shifts and Electron Transfer in Viologen-Tetraphenylborate Complexes: Push-Pull Character of the Exciplex. <i>Journal of the American Chemical Society</i> , 2017, 139, 7681-7684.	13.7	41
14	Watching Ultrafast Barrierless Excited-State Isomerization of Pseudocyanine in Real Time. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4520-4526.	2.6	40
15	Ultrafast Study of the Photodissociation of Bromiodomethane in Acetonitrile upon 266 nm Excitation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5999-6005.	2.5	39
16	Photodissociation of diiodomethane in acetonitrile solution and fragment recombination into iso-diiodomethane studied with ab initio molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2004, 121, 2208-2214.	3.0	36
17	Wavepacket Motion via a Conical Intersection in the Photochemistry of Aqueous Transition-Metal Dianions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1540-1545.	4.6	35
18	Roaming-mediated ultrafast isomerization of geminal tri-bromides in the gas and liquid phases. <i>Nature Chemistry</i> , 2015, 7, 562-568.	13.6	31

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19	Photochemistry of Iodoform in Methanol: Formation and Fate of the <i>iso</i> -CHI ₂ Photoproduct. <i>ChemPhysChem</i> , 2009, 10, 1895-1900.	2.1	29
20	Characterization of iso-CF ₂ I ₂ in frequency and ultrafast time domains. <i>Journal of Chemical Physics</i> , 2010, 132, 124501.	3.0	29
21	Solution-state photophysics of N-carbazoyl benzoate esters: dual emission and order of states in twisted push-pull chromophores. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27671-27683.	2.8	29
22	Photodissociation Dynamics of Chloriodomethane in Acetonitrile Studied by Ultrafast Pump-Probe Spectroscopy. <i>Journal of the Chinese Chemical Society</i> , 2000, 47, 769-772.	1.4	26
23	Photochemistry of Monochloro Complexes of Copper(II) in Methanol Probed by Ultrafast Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2791-2799.	2.5	26
24	Oxidation of Adenosine and Inosine: The Chemistry of 8-Oxo-7,8-dihydropurines, Purine Iminoquinones, and Purine Quinones as Observed by Ultrafast Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 3423-3438.	13.7	26
25	Delayed Photoluminescence in Metal-Conjugated Fluorophores. <i>Journal of the American Chemical Society</i> , 2019, 141, 11286-11297.	13.7	26
26	Spin-Orbit Ab Initio Investigation of the Photolysis of Bromiodomethane. <i>ChemPhysChem</i> , 2006, 7, 955-963.	2.1	25
27	Ultrafast formation of I ₂ following 350-nm photodissociation of CF ₂ I ₂ in n-hexane. <i>Chemical Physics Letters</i> , 2008, 453, 160-166.	2.6	25
28	Ultrafast time-resolved X-ray absorption spectroscopy of chemical systems. <i>Synchrotron Radiation News</i> , 2003, 16, 12-20.	0.8	24
29	Photodissociation of CH ₂ ICH ₂ I, CF ₂ ICF ₂ I, and CF ₂ BrCF ₂ I in Solution. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7090-7098.	2.5	23
30	Visualizing overdamped wavepacket motion: Excited-state isomerization of pseudocyanine in viscous solvents. <i>Chemical Physics</i> , 2009, 357, 54-62.	1.9	23
31	5-Azido-2-aminopyridine, a New Nitrene/Nitrenium Ion Photoaffinity Labeling Agent That Exhibits Reversible Intersystem Crossing between Singlet and Triplet Nitrenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 19167-19179.	13.7	23
32	The effect of dielectric friction on the rate of charge separation in type II ZnSe/CdS semiconductor nanorods. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	22
33	Reactivity of Iso-diiodomethane and Iso-iodoform, Isomers of CH ₂ I ₂ and CHI ₃ , toward the Double Bond of a Variety of Cycloalkenes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11814-11817.	2.5	20
34	Structure of the Photochemical Reaction Path Populated via Promotion of CF ₂ I ₂ into Its First Excited State. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10767-10771.	2.5	19
35	Matrix isolation and computational study of isodifluorodibromomethane (F ₂ CF ₂ Br): A route to Br ₂ formation in CF ₂ Br ₂ photolysis. <i>Journal of Chemical Physics</i> , 2010, 132, 084503.	3.0	19
36	Femtosecond photolysis of CH ₂ Br ₂ in acetonitrile: Capturing the bromomethyl radical and bromine-atom charge transfer complex through deep-to-near UV probing. <i>Chemical Physics Letters</i> , 2011, 507, 69-73.	2.6	17

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37	The formation and back isomerization of iso-H ₂ C=Br-Br on a 100-ps time scale following 255-nm excitation of CH ₂ Br ₂ in acetonitrile. <i>Chemical Physics Letters</i> , 2010, 493, 61-66.	2.6	16
38	Switching on molecular iodine elimination through isomerization: The F ₂ C=I isomer of difluorodiodomethane. <i>Chemical Physics Letters</i> , 2008, 462, 192-195.	2.6	15
39	Ultrafast Photochemistry of Copper(II) Monochlorocomplexes in Methanol and Acetonitrile by Broadband Deep-UV-to-Near-IR Femtosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1833-1844.	2.5	15
40	Sustained Biexciton Populations in Nanoshell Quantum Dots. <i>ACS Photonics</i> , 2019, 6, 1041-1050.	6.6	15
41	Synthesis and computational studies of diphenylamine donor-carbazole linker-based donor-acceptor compounds. <i>Tetrahedron</i> , 2010, 66, 9641-9649.	1.9	14
42	Mechanism of Formation of Copper(II) Chloro Complexes Revealed by Transient Absorption Spectroscopy and DFT/TDDFT Calculations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8754-8763.	2.6	14
43	Femtosecond dynamics of metal-centered and ligand-to-metal charge-transfer (<i>π</i> - <i>π</i> *-based) electronic excited states in various solvents: A comprehensive study of IrBr ₆ ²⁻ . <i>Journal of Chemical Physics</i> , 2019, 150, 054302.	3.0	10
44	Femtosecond Excited-State Dynamics and Nitric Oxide Photorelease in a Prototypical Ruthenium Nitrosyl Complex. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4639-4643.	4.6	10
45	Probing the Fate of Lowest-Energy Near-Infrared Metal-Centered Electronic Excited States: CuCl ₄ ²⁻ and IrBr ₆ ²⁻ . <i>Journal of Physical Chemistry B</i> , 2015, 119, 4857-4864.	2.6	9
46	Ultrafast Excited-State Dynamics of Ligand-Field and Ligand-to-Metal Charge-Transfer States of CuCl ₄ ²⁻ in Solution: A Detailed Transient Absorption Study. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10558-10571.	2.6	9
47	Low-threshold laser medium utilizing semiconductor nanoshell quantum dots. <i>Nanoscale</i> , 2020, 12, 17426-17436.	5.6	9
48	Ultrafast dynamics in LMCT and intraconfigurational excited states in hexahaloiridates(<i>iv</i>), models for heavy transition metal complexes and building blocks of quantum correlated materials. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17351-17364.	2.8	9
49	Direct photoisomerization of CH ₂ I ₂ vs. CHBr ₃ in the gas phase: a joint 50 fs experimental and multireference resonance-theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28883-28892.	2.8	8
50	Matrix isolation and computational studies of the CF ₂ I radical. <i>Chemical Physics Letters</i> , 2010, 496, 68-73.	2.6	7
51	Ion-Pair Complexes of Pyrylium and Tetraarylborate as New Host-Guest Dyes: Photoinduced Electron Transfer Promoting Radical Polymerization. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7374-7383.	2.5	7
52	Exciton Absorption and Luminescence in i-Motif DNA. <i>Scientific Reports</i> , 2019, 9, 15988.	3.3	6
53	Solvent Effects on Nonradiative Relaxation Dynamics of Low-Energy Ligand-Field Excited States: A CuCl ₄ ²⁻ Complex. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4562-4568.	2.6	5
54	LIQUID PHASE PHOTOCHEMISTRY OF THE DI- AND POLYHALOGENATED ALKANES CONTAINING IODINE: FEMTOSECOND TRANSIENT ABSORPTION STUDY OF THE PHOTODISSOCIATION AND IN-CAGE ISOMERIZATION. , 2002, , .		3

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55	Ultrafast Solution-Phase Photophysical and Photochemical Dynamics of Hexaiodobismuthate(III), the Heart of Bismuth Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1254-1267.	2.6	3
56	Probing Vibrationally Mediated Ultrafast Excited-State Reaction Dynamics with Multireference (CASPT2) Trajectories. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11271-11275.	2.5	2
57	Time-Domain Simulations of Transient Species in Experimentally Relevant Environments. <i>Journal of Physical Chemistry A</i> , 2016, 120, 556-561.	2.5	1