Alexander N Tarnovsky

List of Publications by Year
in descending order

57 papers	1,832 citations	236925 25 h-index	276875 41 g-index
59 all docs	59 docs citations	59 times ranked	2388 citing authors

#	Article	IF	Citations
1	Ultrafast Solution-Phase Photophysical and Photochemical Dynamics of Hexaiodobismuthate(III), the Heart of Bismuth Halide Perovskite Solar Cells. Journal of Physical Chemistry B, 2022, 126, 1254-1267.	2.6	3
2	Low-threshold laser medium utilizing semiconductor nanoshell quantum dots. Nanoscale, 2020, 12, 17426-17436.	5.6	9
3	Femtosecond Excited-State Dynamics and Nitric Oxide Photorelease in a Prototypical Ruthenium Nitrosyl Complex. Journal of Physical Chemistry Letters, 2020, 11, 4639-4643.	4.6	10
4	Ultrafast dynamics in LMCT and intraconfigurational excited states in hexahaloiridates(<scp>iv</scp>), models for heavy transition metal complexes and building blocks of quantum correlated materials. Physical Chemistry Chemical Physics, 2020, 22, 17351-17364.	2.8	9
5	Ion-Pair Complexes of Pyrylium and Tetraarylborate as New Hostâ€“Guest Dyes: Photoinduced Electron Transfer Promoting Radical Polymerization. Journal of Physical Chemistry A, 2019, 123, 7374-7383.	2.5	7
6	Exciton Absorption and Luminescence in i-Motif DNA. Scientific Reports, 2019, 9, 15988.	3.3	6
7	Delayed Photoluminescence in Metal-Conjugated Fluorophores. Journal of the American Chemical Society, 2019, 141, 11286-11297.	13.7	26
8	Sustained Biexciton Populations in Nanoshell Quantum Dots. ACS Photonics, 2019, 6, 1041-1050.	6.6	15
9	Femtosecond dynamics of metal-centered and ligand-to-metal charge-transfer (t2g-based) electronic excited states in various solvents: A comprehensive study of IrBr62â^'. Journal of Chemical Physics, 2019, 150, 054302.	3.0	10
10	Ultrafast Excited-State Dynamics of Ligand-Field and Ligand-to-Metal Charge-Transfer States of CuCl₄^{2â€“} in Solution: A Detailed Transient Absorption Study. Journal of Physical Chemistry B, 2018, 122, 10558-10571.	2.6	9
11	Solvent Effects on Nonradiative Relaxation Dynamics of Low-Energy Ligand-Field Excited States: A CuCl42â€“ Complex. Journal of Physical Chemistry B, 2017, 121, 4562-4568.	2.6	5
12	Photoinduced Charge Shifts and Electron Transfer in Viologenâ€“Tetraphenylborate Complexes: Pushâ€“Pull Character of the Exciplex. Journal of the American Chemical Society, 2017, 139, 7681-7684.	13.7	41
13	One-Dimensional Carrier Confinement in â€œGiantâ€•CdS/CdSe Excitonic Nanoshells. Journal of the American Chemical Society, 2017, 139, 7815-7822.	13.7	44
14	Solution-state photophysics of N-carbazolyl benzoate esters: dual emission and order of states in twisted pushâ€“pull chromophores. Physical Chemistry Chemical Physics, 2016, 18, 27671-27683.	2.8	29
15	Direct photoisomerization of CH2I2vs. CHBr3 in the gas phase: a joint 50 fs experimental and multireference resonance-theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 28883-28892.	2.8	8
16	Time-Domain Simulations of Transient Species in Experimentally Relevant Environments. Journal of Physical Chemistry A, 2016, 120, 556-561.	2.5	1
17	Ultrafast Photochemistry of Copper(II) Monochlorocomplexes in Methanol and Acetonitrile by Broadband Deep-UV-to-Near-IR Femtosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2016, 120, 1833-1844.	2.5	15
18	Probing the Fate of Lowest-Energy Near-Infrared Metal-Centered Electronic Excited States: CuCl₄^{2â€“} and IrBr₆^{2â€“}. Journal of Physical Chemistry B, 2015, 119, 4857-4864.	2.6	9

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19	Roaming-mediated ultrafast isomerization of geminal tri-bromides in the gas and liquid phases. Nature Chemistry, 2015, 7, 562-568.	13.6	31
20	Mechanism of Formation of Copper(II) Chloro Complexes Revealed by Transient Absorption Spectroscopy and DFT/TDDFT Calculations. Journal of Physical Chemistry B, 2015, 119, 8754-8763.	2.6	14
21	Photochemistry of copper(II) chlorocomplexes in acetonitrile: Trapping the ligand-to-metal charge transfer excited state relaxations pathways. Chemical Physics Letters, 2014, 615, 105-110.	2.6	46
22	Enhanced Lifetime of Excitons in Nonepitaxial Au/CdS Core/Shell Nanocrystals. ACS Nano, 2014, 8, 352-361.	14.6	81
23	5-Azido-2-aminopyridine, a New Nitrene/Nitrenium Ion Photoaffinity Labeling Agent That Exhibits Reversible Intersystem Crossing between Singlet and Triplet Nitrenes. Journal of the American Chemical Society, 2013, 135, 19167-19179.	13.7	23
24	Oxidation of Adenosine and Inosine: The Chemistry of 8-Oxo-7,8-dihydropurines, Purine Iminoquinones, and Purine Quinones as Observed by Ultrafast Spectroscopy. Journal of the American Chemical Society, 2013, 135, 3423-3438.	13.7	26
25	Probing Vibrationally Mediated Ultrafast Excited-State Reaction Dynamics with Multireference (CASPT2) Trajectories. Journal of Physical Chemistry A, 2013, 117, 11271-11275.	2.5	2
26	Photochemistry of Monochloro Complexes of Copper(II) in Methanol Probed by Ultrafast Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 2791-2799.	2.5	26
27	The Effect of the Charge-Separating Interface on Exciton Dynamics in Photocatalytic Colloidal Heteronanocrystals. ACS Nano, 2012, 6, 8156-8165.	14.6	110
28	Wavepacket Motion via a Conical Intersection in the Photochemistry of Aqueous Transition-Metal Dianions. Journal of Physical Chemistry Letters, 2011, 2, 1540-1545.	4.6	35
29	Suppression of the Plasmon Resonance in Au/CdS Colloidal Nanocomposites. Nano Letters, 2011, 11, 1792-1799.	9.1	173
30	Femtosecond photolysis of CH2Br2 in acetonitrile: Capturing the bromomethyl radical and bromine-atom charge transfer complex through deep-to-near UV probing. Chemical Physics Letters, 2011, 507, 69-73.	2.6	17
31	Synthesis and computational studies of diphenylamine donor-carbazole linker-based donorâ€“acceptor compounds. Tetrahedron, 2010, 66, 9641-9649.	1.9	14
32	The formation and back isomerization of iso-H2Câ€“Brâ€“Br on a 100-ps time scale following 255-nm excitation of CH2Br2 in acetonitrile. Chemical Physics Letters, 2010, 493, 61-66.	2.6	16
33	Matrix isolation and computational studies of the CF2I radical. Chemical Physics Letters, 2010, 496, 68-73.	2.6	7
34	Matrix isolation and computational study of isodifluorodibromomethane (F2CBrâ€“Br): A route to Br2 formation in CF2Br2 photolysis. Journal of Chemical Physics, 2010, 132, 084503.	3.0	19
35	Ultrafast Carrier Dynamics in Type II ZnSe/CdS/ZnSe Nanobarbells. ACS Nano, 2010, 4, 1837-1844.	14.6	93
36	Characterization of iso-CF2I2 in frequency and ultrafast time domains. Journal of Chemical Physics, 2010, 132, 124501.	3.0	29

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37	The effect of dielectric friction on the rate of charge separation in type II ZnSe/CdS semiconductor nanorods. Applied Physics Letters, 2009, 94, .	3.3	22
38	Photochemistry of Iodoform in Methanol: Formation and Fate of the Isoâ€CHI₂â€ Photoproduct. ChemPhysChem, 2009, 10, 1895-1900.	2.1	29
39	Visualizing overdamped wavepacket motion: Excited-state isomerization of pseudocyanine in viscous solvents. Chemical Physics, 2009, 357, 54-62.	1.9	23
40	Structure of the Photochemical Reaction Path Populated via Promotion of CF2I2 into Its First Excited State. Journal of Physical Chemistry A, 2009, 113, 10767-10771.	2.5	19
41	Radiative Recombination of Spatially Extended Excitons in (ZnSe/CdS)/CdS Heterostructured Nanorods. Journal of the American Chemical Society, 2009, 131, 1328-1334.	13.7	129
42	Photoaffinity Labeling via Nitrenium Ion Chemistry: Protonation of the Nitrene Derived from 4-Amino-3-nitrophenyl Azide to Afford Reactive Nitrenium Ion Pairs. Journal of the American Chemical Society, 2009, 131, 11535-11547.	13.7	62
43	Ultrafast formation of I2 following 350-nm photodissociation of CF2I2 in n-hexane. Chemical Physics Letters, 2008, 453, 160-166.	2.6	25
44	Switching on molecular iodine elimination through isomerization: The F2Câ€“Iâ€“I isomer of difluorodiiodomethane. Chemical Physics Letters, 2008, 462, 192-195.	2.6	15
45	Reactivity of Iso-diiodomethane and Iso-iodoform, Isomers of CH₂I₂ and CHI₃, toward the Double Bond of a Variety of Cycloalkenes. Journal of Physical Chemistry A, 2007, 111, 11814-11817.	2.5	20
46	Watching Ultrafast Barrierless Excited-State Isomerization of Pseudocyanine in Real Time. Journal of Physical Chemistry B, 2007, 111, 4520-4526.	2.6	40
47	Spin-Orbit Ab Initio Investigation of the Photolysis of Bromoiodomethane. ChemPhysChem, 2006, 7, 955-963.	2.1	25
48	Photodissociation of diiodomethane in acetonitrile solution and fragment recombination into iso-diiodomethane studied with ab initio molecular dynamics simulations. Journal of Chemical Physics, 2004, 121, 2208-2214.	3.0	36
49	Photochemistry of Diiodomethane in Solution Studied by Femtosecond and Nanosecond Laser Photolysis. Formation and Dark Reactions of the CH2Iâ^'I Isomer Photoproduct and Its Role in Cyclopropanation of Olefins. Journal of Physical Chemistry A, 2004, 108, 237-249.	2.5	57
50	Photodissociation Dynamics of Iodoform in Solution. Journal of Physical Chemistry A, 2003, 107, 211-217.	2.5	42
51	Ultrafast timeâ€resolved Xâ€ray absorption spectroscopy of chemical systems. Synchrotron Radiation News, 2003, 16, 12-20.	0.8	24
52	Photodissociation of CH2ICH2I, CF2ICF2I, and CF2BrCF2I in Solution. Journal of Physical Chemistry A, 2002, 106, 7090-7098.	2.5	23
53	Ultrafast Study of the Photodissociation of Bromoiodomethane in Acetonitrile upon 266 nm Excitation. Journal of Physical Chemistry A, 2002, 106, 5999-6005.	2.5	39
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	On the use of two-photon absorption for determination of femtosecond pumpâ€“probe cross-correlation functions. Chemical Physics Letters, 2001, 335, 201-208.	2.6	55
56	Photodissociation Dynamics of Chloroiodomethane in Acetonitrile Studied by Ultrafast Pumpâ€Probe Spectroscopy. Journal of the Chinese Chemical Society, 2000, 47, 769-772.	1.4	26
57	Photodissociation dynamics of diiodomethane in solution. Chemical Physics Letters, 1999, 312, 121-130.	2.6	91