

# Delmar S Larsen

## List of Publications by Year in descending order

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93  
papers

5,422  
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87888

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82547

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93  
docs citations

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times ranked

5577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global and target analysis of time-resolved spectra. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1657, 82-104.	1.0	1,354
2	Evolution of Physical and Photocatalytic Properties in the Layered Titanates $A_{2}Ti_{4}O_{9}$ (A = K, H) and in Nanosheets Derived by Chemical Exfoliation. <i>Chemistry of Materials</i> , 2010, 22, 1220-1228.	6.7	160
3	Excited state dynamics of $\beta$ -carotene explored with dispersed multi-pulse transient absorption. <i>Chemical Physics Letters</i> , 2003, 381, 733-742.	2.6	151
4	Incoherent Manipulation of the Photoactive Yellow Protein Photocycle with Dispersed Pump-Dump-Probe Spectroscopy. <i>Biophysical Journal</i> , 2004, 87, 1858-1872.	0.5	143
5	Uncovering the hidden ground state of green fluorescent protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17988-17993.	7.1	135
6	Calcium Niobate Semiconductor Nanosheets as Catalysts for Photochemical Hydrogen Evolution from Water. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14589-14592.	3.1	135
7	Initial Steps of Signal Generation in Photoactive Yellow Protein Revealed with Femtosecond Mid-Infrared Spectroscopy. <i>Biochemistry</i> , 2003, 42, 10054-10059.	2.5	123
8	Photoisomerization and Photoionization of the Photoactive Yellow Protein Chromophore in Solution. <i>Biophysical Journal</i> , 2004, 86, 2538-2550.	0.5	109
9	Sequestering High-Energy Electrons to Facilitate Photocatalytic Hydrogen Generation in CdSe/CdS Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2688-2694.	4.6	105
10	K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> -derived photocatalysts for hydrogen evolution from water: Nanoscrolls versus nanosheets. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1678-1683.	2.9	98
11	Ultrafast Excited and Ground-State Dynamics of the Green Fluorescent Protein Chromophore in Solution. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4587-4598.	2.5	97
12	Influence of intramolecular vibrations in third-order, time-domain resonant spectroscopies. II. Numerical calculations. <i>Journal of Chemical Physics</i> , 2001, 114, 8020-8039.	3.0	96
13	Ultrafast Protein Dynamics of Bacteriorhodopsin Probed by Photon Echo and Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6067-6080.	2.6	94
14	Excited-State Dynamics of Carotenoids in Light-Harvesting Complexes. 1. Exploring the Relationship between the S <sub>1</sub> and S* States. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5727-5736.	2.6	94
15	Two-photon brightness of azobenzene photoswitches designed for glutamate receptor optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E776-85.	7.1	93
16	Three pulse photon echo studies of nondipolar solvation: Comparison with a viscoelastic model. <i>Journal of Chemical Physics</i> , 1999, 111, 8970-8979.	3.0	92
17	Use of Ultrafast Dispersed Pump-Dump-Probe and Pump-Repump-Probe Spectroscopies to Explore the Light-Induced Dynamics of Peridinin in Solution. <i>Journal of Physical Chemistry B</i> , 2006, 110, 512-521.	2.6	91
18	Femtosecond Ligand/Core Dynamics of Microwave-Assisted Synthesized Silicon Quantum Dots in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2011, 133, 20664-20667.	13.7	88

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19	Excited-State Self-Trapping and Ground-State Relaxation Dynamics in Poly(3-hexylthiophene) Resolved with Broadband Pump-Dump-Probe Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2764-2769.	4.6	86
20	Influence of intramolecular vibrations in third-order, time-domain resonant spectroscopies. I. Experiments. <i>Journal of Chemical Physics</i> , 2001, 114, 8008-8019.	3.0	83
21	Origin of line broadening in the electronic absorption spectra of conjugated polymers: Three-pulse-echo studies of MEH-PPV in toluene. <i>Physical Review B</i> , 2000, 61, 13670-13678.	3.2	81
22	Femtosecond Photodynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . 1. Forward Dynamics. <i>Biochemistry</i> , 2012, 51, 608-618.	2.5	81
23	Synthesis and Characterization of Manganese-Doped Silicon Nanoparticles: Bifunctional Paramagnetic-Optical Nanomaterial. <i>Journal of the American Chemical Society</i> , 2007, 129, 10668-10669.	13.7	74
24	Packing Dependent Electronic Coupling in Single Poly(3-hexylthiophene) H- and J-Aggregate Nanofibers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4478-4487.	2.6	73
25	Contrasting the Excited-State Dynamics of the Photoactive Yellow Protein Chromophore: Protein versus Solvent Environments. <i>Biophysical Journal</i> , 2004, 87, 1848-1857.	0.5	72
26	Ultrafast Carrier Dynamics in Exfoliated and Functionalized Calcium Niobate Nanosheets in Water and Methanol. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2394-2403.	3.1	72
27	Femtosecond Photodynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . 2. Reverse Dynamics. <i>Biochemistry</i> , 2012, 51, 619-630.	2.5	72
28	Dynamic Inhomogeneity in the Photodynamics of Cyanobacterial Phytochrome Cph1. <i>Biochemistry</i> , 2014, 53, 2818-2826.	2.5	65
29	Correlating structural and photochemical heterogeneity in cyanobacteriochrome NpR6012g4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4387-4392.	7.1	65
30	Photoreceptors Take Charge: Emerging Principles for Light Sensing. <i>Annual Review of Biophysics</i> , 2018, 47, 291-313.	10.0	65
31	Ultrafast Dynamics of Isolated Model Photoactive Yellow Protein Chromophores: A Chemical Perturbation Theory in the Laboratory. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4197-4208.	2.6	62
32	Intrinsic optical heterodyne detection of a two-dimensional fifth order Raman response. <i>Chemical Physics Letters</i> , 1997, 272, 48-54.	2.6	58
33	Second-Chance Forward Isomerization Dynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . <i>Journal of the American Chemical Society</i> , 2012, 134, 130-133.	13.7	58
34	Initial Photoinduced Dynamics of the Photoactive Yellow Protein. <i>ChemPhysChem</i> , 2005, 6, 828-837.	2.1	55
35	Broadband Spectral Probing Revealing Ultrafast Photochemical Branching after Ultraviolet Excitation of the Aqueous Phenolate Anion. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3807-3819.	2.5	54
36	Initial photo-induced dynamics of the photoactive yellow protein chromophore in solution. <i>Chemical Physics Letters</i> , 2003, 369, 563-569.	2.6	51

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37	Red States versus Blue States in Colloidal Silicon Nanocrystals: Exciton Sequestration into Low-Density Traps. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3806-3812.	4.6	44
38	Toward an Understanding of the Retinal Chromophore in Rhodopsin Mimics. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10053-10070.	2.6	41
39	Unraveling the Primary Isomerization Dynamics in Cyanobacterial Phytochrome Cph1 with Multipulse Manipulations. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2605-2609.	4.6	40
40	Deconstructing the Excited-State Dynamics of $\hat{I}^2$ -Carotene in Solution. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3905-3916.	2.5	37
41	Optical Dedoping Mechanism for P3HT:F4TCNQ Mixtures. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4297-4303.	4.6	37
42	Heterogeneous Photodynamics of the Pfr State in the Cyanobacterial Phytochrome Cph1. <i>Biochemistry</i> , 2014, 53, 4601-4611.	2.5	36
43	Rapid Photodynamics of Vitamin B <sub>6</sub> Coenzyme Pyridoxal 5 $\hat{A}$ -Phosphate and Its Schiff Bases in Solution. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5867-5873.	2.6	34
44	Using narrowband excitation to confirm that the S $\hat{A}$ — state in carotenoids is not a vibrationally-excited ground state species. <i>Chemical Physics Letters</i> , 2010, 487, 101-107.	2.6	34
45	Primary Photodynamics of the Green/Red-Absorbing Photoswitching Regulator of the Chromatic Adaptation E Domain from <i>Fremyella diplosiphon</i> . <i>Biochemistry</i> , 2013, 52, 8198-8208.	2.5	34
46	Inter-pigment interactions in the peridinin chlorophyll protein studied by global and target analysis of time resolved absorption spectra. <i>Chemical Physics</i> , 2009, 357, 70-78.	1.9	33
47	Conservation and Diversity in the Primary Forward Photodynamics of Red/Green Cyanobacteriochromes. <i>Biochemistry</i> , 2015, 54, 1028-1042.	2.5	32
48	Mediation of Ultrafast Light-Harvesting by a Central Dimer in Phycoerythrin 545 Studied by Transient Absorption and Global Analysis. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14219-14226.	2.6	31
49	Chemical Inhomogeneity in the Ultrafast Dynamics of the DXCF Cyanobacteriochrome Tlr0924. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10571-10581.	2.6	31
50	Reactive Ground-State Pathways Are Not Ubiquitous in Red/Green Cyanobacteriochromes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11229-11238.	2.6	31
51	Evaluating the effectiveness of the open-access ChemWiki resource as a replacement for traditional general chemistry textbooks. <i>Chemistry Education Research and Practice</i> , 2015, 16, 939-948.	2.5	30
52	Subpicosecond Excited-State Proton Transfer Preceding Isomerization During the Photorecovery of Photoactive Yellow Protein. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2793-2799.	4.6	26
53	Primary Photochemistry of the Dark- and Light-Adapted States of the YtvA Protein from <i>Bacillus subtilis</i> . <i>Biochemistry</i> , 2013, 52, 7951-7963.	2.5	26
54	Primary and Secondary Photodynamics of the Violet/Orange Dual-Cysteine NpF2164g3 Cyanobacteriochrome Domain from <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , 2014, 53, 1029-1040.	2.5	24

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55	Protonation Heterogeneity Modulates the Ultrafast Photocycle Initiation Dynamics of Phytochrome Cph1. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3454-3462.	4.6	24
56	Excited-State Dynamics of Carotenoids in Light-Harvesting Complexes. 2. Dissecting Pulse Structures from Optimal Control Experiments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5737-5746.	2.6	18
57	Ultrafast E to Z photoisomerization dynamics of the Cph1 phytochrome. <i>Chemical Physics Letters</i> , 2012, 549, 86-92.	2.6	18
58	Light-Enhanced Catalysis by Pyridoxal Phosphate-Dependent Aspartate Aminotransferase. <i>Journal of the American Chemical Society</i> , 2010, 132, 16953-16961.	13.7	16
59	Is the photoactive yellow protein a UV-B/blue light photoreceptor?. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 464-468.	2.9	15
60	Characterization of Femtosecond Laser-Induced Breakdown Spectroscopy (fsLIBS) and Applications for Biological Samples. <i>Applied Spectroscopy</i> , 2014, 68, 949-954.	2.2	15
61	Photo-isomerization upshifts the pKa of the Photoactive Yellow Protein chromophore to contribute to photocycle propagation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 270, 43-52.	3.9	14
62	Primary charge carrier dynamics of water-solubilized CdZnS/ZnS core/shell and CdZnS/ZnS•Pd nanoparticle adducts. <i>Chemical Physics Letters</i> , 2013, 573, 56-62.	2.6	14
63	Teaching Cheminformatics through a Collaborative Intercollegiate Online Chemistry Course (OLCC). <i>Journal of Chemical Education</i> , 2021, 98, 416-425.	2.3	12
64	Bifurcation in the Ultrafast Dynamics of the Photoactive Yellow Proteins from <i>Leptospira biflexa</i> and <i>Halorhodospira halophila</i> . <i>Biochemistry</i> , 2016, 55, 6138-6149.	2.5	11
65	Cluster-Dependent Charge-Transfer Dynamics in Iron-Sulfur Proteins. <i>Biochemistry</i> , 2018, 57, 978-990.	2.5	11
66	Optically Guided Photoactivity: Coordinating Tautomerization, Photoisomerization, Inhomogeneity, and Reactive Intermediates within the RcaE Cyanobacteriochrome. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1527-1533.	4.6	10
67	Noncanonical Photocycle Initiation Dynamics of the Photoactive Yellow Protein (PYP) Domain of the PYP-Phytochrome-Related (Ppr) Photoreceptor. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5212-5218.	4.6	10
68	Separating Annihilation and Excitation Energy Transfer Dynamics in Light Harvesting Systems. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11372-11382.	2.6	9
69	Noncanonical Photodynamics of the Orange/Green Cyanobacteriochrome Power Sensor NpF2164g7 from the PtxD Phototaxis Regulator of <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , 2018, 57, 2636-2648.	2.5	9
70	Comparison of the Forward and Reverse Photocycle Dynamics of Two Highly Similar Canonical Red/Green Cyanobacteriochromes Reveals Unexpected Differences. <i>Biochemistry</i> , 2021, 60, 274-288.	2.5	9
71	A small volume, rapid translation cryostat insert constructed from commercial components for the detection of ultrafast optical signals. <i>Review of Scientific Instruments</i> , 2002, 73, 1325-1328.	1.3	8
72	Primary Photodynamics of Water-Solubilized Two-Dimensional CdSe Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19647-19658.	3.1	8

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73	Note: A flexible light emitting diode-based broadband transient-absorption spectrometer. Review of Scientific Instruments, 2012, 83, 056107.	1.3	8
74	Multiphoton Manipulations of Enzymatic Photoactivity in Aspartate Aminotransferase. Journal of Physical Chemistry B, 2011, 115, 4474-4483.	2.6	7
75	Acceptor dependent polaron recombination dynamics in poly 3-hexyl thiophene: Fullerene composite films. Chemical Physics Letters, 2011, 513, 77-83.	2.6	7
76	Excitation-Wavelength-Dependent Photocycle Initiation Dynamics Resolve Heterogeneity in the Photoactive Yellow Protein from <i>Halorhodospira halophila</i> . Biochemistry, 2018, 57, 1733-1747.	2.5	7
77	Put Your Backbone into It: Excited-State Structural Relaxation of PffBT4T-2DT Conducting Polymer in Solution. Journal of Physical Chemistry C, 2018, 122, 7020-7026.	3.1	7
78	Computational and Spectroscopic Characterization of the Photocycle of an Artificial Rhodopsin. Journal of Physical Chemistry Letters, 2020, 11, 4245-4252.	4.6	7
79	Measurement of pick-up cross-sections of 4He clusters: Polar versus non-polar molecules. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1437-1444.	0.6	6
80	Tracking the secondary photodynamics of the green/red cyanobacteriochrome RcaE from <i>Fremyella diplosiphon</i> . Chemical Physics Letters, 2016, 644, 225-230.	2.6	6
81	Conservation and diversity in the secondary forward photodynamics of red/green cyanobacteriochromes. Photochemical and Photobiological Sciences, 2019, 18, 2539-2552.	2.9	6
82	Reverse Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i> . Biochemistry, 2019, 58, 2307-2317.	2.5	6
83	Forward Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i> . Biochemistry, 2019, 58, 2297-2306.	2.5	6
84	Enhancing Undergraduate Chemistry Education with the Online Dynamic ChemWiki Resource. Journal of Chemical Education, 2011, 88, 840-840.	2.3	5
85	Ultrafast Charge-Transfer Dynamics in the Iron-Sulfur Complex of <i>Rhodobacter capsulatus</i> Ferredoxin VI. Journal of Physical Chemistry Letters, 2017, 8, 4498-4503.	4.6	5
86	Stimulated emission three-pulse photo-echo peakshift: A mixed pump-probe and photon-echo technique for studying excited-state dynamics. Journal of Chemical Physics, 2004, 121, 5039-5042.	3.0	4
87	Ultrafast exciton dynamics in colloidal aluminum phosphide nanocrystals. Chemical Physics Letters, 2013, 557, 129-133.	2.6	4
88	Driving Broad Adaptation of Open On Line Educational Resources. MRS Advances, 2017, 2, 1707-1712.	0.9	4
89	Ultrafast Spintronics: Dynamics of the Photoisomerization-Induced Spin-Charge Excited-State (PISCES) Mechanism in Spirooxazine-Based Photomagnetic Materials. Journal of Physical Chemistry Letters, 2018, 9, 5351-5357.	4.6	4
90	Not All Photoactive Yellow Proteins Are Built Alike: Surprises and Insights into Chromophore Photoisomerization, Protonation, and Thermal Reisomerization of the Photoactive Yellow Protein Isolated from <i>Salinibacter ruber</i> . Journal of the American Chemical Society, 2021, 143, 19614-19628.	13.7	3

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91	Substrate and intensity dependent photoenhanced transamination reactions of pyridoxal 5-phosphate in solution. <i>Chemical Physics Letters</i> , 2012, 554, 195-200.	2.6	1
92	Conservation and Diversity in the Primary Reverse Photodynamics of the Canonical Red/Green Cyanobacteriochrome Family. <i>Biochemistry</i> , 2020, 59, 4015-4028.	2.5	1
93	Measurement of pick-up cross-sections of 4He clusters: polar versus non-polar molecules. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 1437-1444.	0.6	1