## Darius Abramavicius

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140 papers

4,126 citations

34 h-index 60 g-index

164 ext. papers

4,540 ext. citations

5.3 avg, IF

5.62 L-index

#	Paper	IF	Citations
140	Excitonic structure and charge separation in the heliobacterial reaction center probed by multispectral multidimensional spectroscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 2801	17.4	4
139	Vibration-mediated energy transport in bacterial reaction center: Simulation study. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 214115	3.9	
138	Second harmonic generation theory for a helical macromolecule with high sensitivity to structural disorder. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 20201-20217	3.6	1
137	Unusual temperature dependence of the fluorescence decay in heterostructured stilbene. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 3447-3454	3.6	2
136	Two-dimensional electronic Stark spectroscopy of a photosynthetic dimer. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 144203	3.9	3
135	Long memory effects in excitonic systems dynamics: Spectral relations and excitation transport. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 244114	3.9	1
134	Characterization of thymine microcrystals by CARS and SHG microscopy. <i>Scientific Reports</i> , <b>2020</b> , 10, 17	024.75	3
133	Modeling irreversible molecular internal conversion using the time-dependent variational approach with sD ansatz. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8952-8962	3.6	2
132	The full dynamics of energy relaxation in large organic molecules: from photo-excitation to solvent heating. <i>Chemical Science</i> , <b>2019</b> , 10, 4792-4804	9.4	19
131	Simulations of pump probe spectra of a molecular complex at high excitation intensity. <i>Chemical Physics</i> , <b>2019</b> , 527, 110458	2.3	1
130	Excitation dynamics of two level quantum systems coupled to Morse vibrations. <i>Lithuanian Journal of Physics</i> , <b>2019</b> , 58,	1.1	1
129	Two-dimensional electronic spectroscopy of anharmonic molecular potentials. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 1642-1652	3.6	13
128	Tracing feed-back driven exciton dynamics in molecular aggregates. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 21225-21240	3.6	6
127	Vibrational damping effects on electronic energy relaxation in molecular aggregates. <i>Chemical Physics</i> , <b>2018</b> , 515, 193-202	2.3	4
126	Role of Bath Fluctuations in the Double-Excitation Manifold in Shaping the 2DES of Bacterial Reaction Centers at Low Temperature. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1348-1366	3.4	7
125	Effects of tunable excitation in carotenoids explained by the vibrational energy relaxation approach. <i>Photosynthesis Research</i> , <b>2018</b> , 135, 55-64	3.7	4
124	Origin of non-Gaussian site energy disorder in molecular aggregates. <i>Chemical Physics Letters</i> , <b>2017</b> , 674, 120-124	2.5	8

#### (2015-2017)

123	Multistep Photoluminescence Decay Reveals Dissociation of Geminate Charge Pairs in Organolead Trihalide Perovskites. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700405	21.8	8	
122	Discrimination of Diverse Coherences Allows Identification of Electronic Transitions of a Molecular Nanoring. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2344-2349	6.4	36	
121	Ultrafast energy transfer within the photosystem II core complex. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15356-15367	3.6	20	
120	Spectroscopic properties of photosystem II reaction center revisited. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 115102	3.9	12	
119	Temporal dynamics of excitonic states with nonlinear electron-vibrational coupling. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 074114	3.9	8	
118	Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5979-5989	6.4	19	
117	Role of coherence and delocalization in photo-induced electron transfer at organic interfaces. <i>Scientific Reports</i> , <b>2016</b> , 6, 32914	4.9	31	
116	Band Structure of the Rhodobacter sphaeroides Photosynthetic Reaction Center from Low-Temperature Absorption and Hole-Burned Spectra. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 560	1 <sup>3</sup> 16	12	
115	Role of coherent vibrations in energy transfer and conversion in photosynthetic pigment-protein complexes. <i>Photosynthesis Research</i> , <b>2016</b> , 127, 33-47	3.7	42	
114	Polaronic effects at finite temperatures in the B850 ring of the LH2 complex. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7966-77	3.6	21	
113	Disorder-Induced Quantum Beats in Two-Dimensional Spectra of Excitonically Coupled Molecules. Journal of Physical Chemistry Letters, <b>2016</b> , 7, 277-82	6.4	6	
112	Benchmarking the stochastic time-dependent variational approach for excitation dynamics in molecular aggregates. <i>Chemical Physics</i> , <b>2016</b> , 481, 108-116	2.3	8	
111	Artificial Photosynthesis: Theoretical Background. Advances in Botanical Research, <b>2016</b> , 79, 129-167	2.2	1	
110	A Unified Picture of S* in Carotenoids. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3347-52	6.4	36	
109	Mutation-Induced Changes in the Protein Environment and Site Energies in the (M)L214G Mutant of the Rhodobacter sphaeroides Bacterial Reaction Center. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 785	9 <sup>2</sup> 7 <sup>4</sup> 1	6	
108	Vibronic energy relaxation approach highlighting deactivation pathways in carotenoids. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19491-9	3.6	27	
107	Absorption lineshapes of molecular aggregates revisited. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 15410	73.9	25	
106	Probing environment fluctuations by two-dimensional electronic spectroscopy of molecular systems at temperatures below 5 K. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 212428	3.9	17	

105	Coherence and population dynamics of chlorophyll excitations in FCP complex: Two-dimensional spectroscopy study. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 212414	3.9	24
104	Modeling of ultrafast time-resolved fluorescence applied to a weakly coupled chromophore pair. Journal of Chemical Physics, <b>2015</b> , 143, 074101	3.9	6
103	Mapping energy transfer channels in fucoxanthin-chlorophyll protein complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 241-247	4.6	45
102	Vibronic phenomena and exciton-vibrational interference in two-dimensional spectra of molecular aggregates. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 034306	3.9	79
101	Excitation transfer pathways in excitonic aggregates revealed by the stochastic Schrilinger equation. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 065103	3.9	14
100	Carrier motion in as-spun and annealed P3HT:PCBM blends revealed by ultrafast optical electric field probing and Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2686-92	3.6	24
99	Vibronic coherence in oxygenic photosynthesis. <i>Nature Chemistry</i> , <b>2014</b> , 6, 706-11	17.6	287
98	Vibronic models for nonlinear spectroscopy simulations. <i>Photosynthesis Research</i> , <b>2014</b> , 121, 95-106	3.7	22
97	Static and Dynamic Disorder in Bacterial Light-Harvesting Complex LH2: A 2DES Simulation Study. Journal of Physical Chemistry B, <b>2014</b> , 118, 7533-7540	3.4	40
96	An Oscillator Coupled to a Harmonic Bath <b>2014</b> , 189-208		
05			
95	Dynamics of exciton-polaron transition in molecular assemblies: the variational approach. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 244108	3.9	20
93		3.9	20
	of Chemical Physics, 2014, 140, 244108  Visualizing charge separation in bulk heterojunction organic solar cells. Nature Communications,		
94	of Chemical Physics, 2014, 140, 244108  Visualizing charge separation in bulk heterojunction organic solar cells. Nature Communications, 2013, 4, 2334	17.4	140
94	Of Chemical Physics, 2014, 140, 244108  Visualizing charge separation in bulk heterojunction organic solar cells. Nature Communications, 2013, 4, 2334  Exciton-exciton scattering in a one-dimensional J aggregate. Europhysics Letters, 2013, 101, 57007  Manifestation of protein conformations in the B850 absorption band of light-harvesting complex	17.4	140
94 93 92	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , <b>2013</b> , 4, 2334  Exciton-exciton scattering in a one-dimensional J aggregate. <i>Europhysics Letters</i> , <b>2013</b> , 101, 57007  Manifestation of protein conformations in the B850 absorption band of light-harvesting complex LH2. <i>Chemical Physics</i> , <b>2013</b> , 423, 9-14  Simulations of the two-dimensional electronic spectroscopy of the photosystem II reaction center.	17.4 1.6	140 7 9
<ul><li>94</li><li>93</li><li>92</li><li>91</li></ul>	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , 2013, 4, 2334  Exciton-exciton scattering in a one-dimensional J aggregate. <i>Europhysics Letters</i> , 2013, 101, 57007  Manifestation of protein conformations in the B850 absorption band of light-harvesting complex LH2. <i>Chemical Physics</i> , 2013, 423, 9-14  Simulations of the two-dimensional electronic spectroscopy of the photosystem II reaction center. <i>Journal of Physical Chemistry A</i> , 2013, 117, 34-41  Distinctive character of electronic and vibrational coherences in disordered molecular aggregates.	17.4 1.6 2.3 2.8	140 7 9 25

#### (2011-2013)

87	Ultrafast Energy Transfer from Chlorophyll c2 to Chlorophyll a in Fucoxanthin@hlorophyll Protein Complex. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3590-3595	6.4	28
86	Tight-binding model of the photosystem II reaction center: application to two-dimensional electronic spectroscopy. <i>New Journal of Physics</i> , <b>2013</b> , 15, 075013	2.9	42
85	Exchange narrowing and exciton delocalization in disordered J aggregates: simulated peak shapes in the two dimensional spectra. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 034313	3.9	13
84	Coherent electronic and vibrational dynamics in the electronic 2D spectra of molecular dimers <b>2013</b> ,		1
83	Nonclassical energy transfer in photosynthetic FMO complex. EPJ Web of Conferences, 2013, 41, 08014	0.3	
82	Phase relationships of spectral oscillations in 2D molecular spectroscopy. <i>EPJ Web of Conferences</i> , <b>2013</b> , 41, 05021	0.3	
81	2013,		123
80	Insight into the structure of photosynthetic LH2 aggregate from spectroscopy simulations. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7803-14	3.4	23
79	Excitation dynamics and relaxation in a molecular heterodimer. Chemical Physics, 2012, 404, 94-102	2.3	25
78	Vibrational vs. electronic coherences in 2D spectrum of molecular systems. <i>Chemical Physics Letters</i> , <b>2012</b> , 545, 40-43	2.5	172
77	Weak exciton scattering in molecular nanotubes revealed by double-quantum two-dimensional electronic spectroscopy. <i>Physical Review Letters</i> , <b>2012</b> , 108, 067401	7.4	22
76	Molecular vibrations-induced quantum beats in two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 044513	3.9	51
75	Non-Markovian effects in time-resolved fluorescence spectrum of molecular aggregates: Tracing polaron formation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	42
74	Interplay of Exciton Coherence and Dissipation in Molecular Aggregates. <i>Semiconductors and Semimetals</i> , <b>2011</b> , 3-46	0.6	5
73	Direct evidence of quantum transport in photosynthetic light-harvesting complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20908-12	11.5	176
72	Coherent control protocol for separating energy-transfer pathways in photosynthetic complexes by chiral multidimensional signals. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 4624-9	2.8	9
71	Advancing Hierarchical Equations of Motion for Efficient Evaluation of Coherent Two-dimensional Spectroscopy. <i>Chinese Journal of Chemical Physics</i> , <b>2011</b> , 24, 497-506	0.9	25
70	Exciton dynamics in chromophore aggregates with correlated environment fluctuations. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 174504	3.9	61

69	Signatures of three-exciton correlations in the coherent and incoherent nonlinear optical response of photosynthetic complexes. <i>New Journal of Physics</i> , <b>2010</b> , 12, 065046	2.9	3
68	Energy-transfer and charge-separation pathways in the reaction center of photosystem II revealed by coherent two-dimensional optical spectroscopy. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 184501	3.9	45
67	Ultraviolet spectroscopy of protein backbone transitions in aqueous solution: combined QM and MM simulations. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 8270-7	3.4	51
66	Excitons and disorder in molecular nanotubes: a 2D electronic spectroscopy study and first comparison to a microscopic model. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 8179-89	2.8	46
65	Simulation study of chiral two-dimensional ultraviolet spectroscopy of the protein backbone. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7769-75	16.4	31
64	Simulation of two-dimensional ultraviolet spectroscopy of amyloid fibrils. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 12150-6	3.4	18
63	Quantum oscillatory exciton migration in photosynthetic reaction centers. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 064510	3.9	74
62	Interplay of slow bath fluctuations and energy transfer in 2D spectroscopy of the FMO light-harvesting complex: benchmarking of simulation protocols. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 108-14	3.6	12
61	Manipulation of two-dimensional spectra of excitonically coupled molecules by narrow-bandwidth laser pulses. <i>Chemical Physics</i> , <b>2010</b> , 372, 22-32	2.3	28
60	Two-dimensional optical spectroscopy of molecular aggregates. <i>Lithuanian Journal of Physics</i> , <b>2010</b> , 50, 267-303	1.1	13
59	Dephasing in semiconducting single-walled carbon nanotubes induced by exciton-exciton annihilation. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	19
58	Excitonic couplings and interband energy transfer in a double-wall molecular aggregate imaged by coherent two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 054510	3.9	42
57	Lindblad equations for strongly coupled populations and coherences in photosynthetic complexes. Journal of Chemical Physics, <b>2009</b> , 130, 204512	3.9	89
56	Tracing exciton dynamics in molecular nanotubes with 2D electronic spectroscopy. <i>Chemical Physics Letters</i> , <b>2009</b> , 469, 130-134	2.5	34
55	Coherent multidimensional optical probes for electron correlations and exciton dynamics: from NMR to X-rays. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 553-62	24.3	78
54	Exciton delocalization and transport in photosystem I of cyanobacteria Synechococcus elongates: simulation study of coherent two-dimensional optical signals. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6097-108	3.4	21
53	Coherent multidimensional optical spectroscopy of excitons in molecular aggregates; quasiparticle versus supermolecule perspectives. <i>Chemical Reviews</i> , <b>2009</b> , 109, 2350-408	68.1	386
52	Double-Quantum Coherence Spectroscopy of Chromophore Aggregates. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 412-414	0.3	1

### (2006-2009)

51	Coherent Control of Chirality-Induced 2D Electronic Spectroscopy Signals. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 550-552	0.3	1
50	Dissecting Exciton Dynamics Pathways in Electronic Multidimensional Spectroscopy by Pulse Polarizations. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 601-603	0.3	
49	Extracting single and two-exciton couplings in photosynthetic complexes by coherent two-dimensional electronic spectra. <i>Chemical Physics</i> , <b>2008</b> , 357, 79-84	2.3	45
48	Unravelling coherent dynamics and energy dissipation in photosynthetic complexes by 2D spectroscopy. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3613-9	2.9	49
47	Chirality-based signatures of local protein environments in two-dimensional optical spectroscopy of two species photosynthetic complexes of green sulfur bacteria: simulation study. <i>Biophysical Journal</i> , <b>2008</b> , 95, 4896-907	2.9	11
46	Probing electron correlations in molecules by two-dimensional coherent optical spectroscopy. Journal of the American Chemical Society, <b>2008</b> , 130, 3509-15	16.4	27
45	Double-quantum resonances and exciton-scattering in coherent 2D spectroscopy of photosynthetic complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8525-30	11.5	50
44	Many-body effects in two-dimensional optical spectra of semiconductor quantum dot pairs; time-dependent HartreeBock approximation and beyond. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 045206	1.8	4
43	Manipulating multidimensional electronic spectra of excitons by polarization pulse shaping. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 044508	3.9	26
42	Two Dimensional Electronic Correlation Spectroscopy of the npi* and pipi* Protein Backbone Transitions: A Simulation Study. <i>Chemical Physics</i> , <b>2007</b> , 341, 29-36	2.3	27
41	Simulation of two-dimensional infrared spectroscopy of amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 14233-6	11.5	27
40	Transport and correlated fluctuations in the nonlinear optical response of excitons. <i>Europhysics Letters</i> , <b>2007</b> , 80, 17005	1.6	42
39	Sum-over-states versus quasiparticle pictures of coherent correlation spectroscopy of excitons in semiconductors: Femtosecond analogs of multidimensional NMR. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	28
38	Manipulating Multidimensional Nonlinear Spectra of Excitons by Coherent Control with Polarization Pulse Shaping. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 383-385	0.3	
37	Coherent Infrared Pulse Sequences for Probing Molecular Chirality. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 252-254	0.3	
36	Coherent control of pump-probe signals of helical structures by adaptive pulse polarizations. Journal of Chemical Physics, <b>2006</b> , 124, 034104	3.9	22
35	Chirality-induced signals in coherent multidimensional spectroscopy of excitons. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 034113	3.9	33
34	Probing molecular chirality via excitonic nonlinear response. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2006</b> , 39, 5051-5066	1.3	19

33	Two-dimensional vibrational optical probes for peptide fast folding investigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18934-8	11.5	28
32	Coherent control of cross-peaks in chirality-induced two-dimensional optical signals of excitons. Journal of Chemical Physics, <b>2006</b> , 125, 224504	3.9	19
31	Simulation protocols for coherent femtosecond vibrational spectra of peptides. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3362-74	3.4	123
30	Time-domain chirally-sensitive three-pulse coherent probes of vibrational excitons in proteins. <i>Chemical Physics</i> , <b>2005</b> , 318, 50-70	2.3	17
29	Coherent third-order spectroscopic probes of molecular chirality. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 134305	3.9	41
28	Dissecting coherent vibrational spectra of small proteins into secondary structural elements by sensitivity analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 7443-8	11.5	34
27	Disentangling multidimensional femtosecond spectra of excitons by pulse shaping with coherent control. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 8373-8	3.9	29
26	Quartic Interband Exciton Couplings in Pump <b>B</b> robe Spectroscopy of Light Harvesting Complexes <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 10295-10300	3.4	7
25	Many-body approaches for simulating coherent nonlinear spectroscopies of electronic and vibrational excitons. <i>Chemical Reviews</i> , <b>2004</b> , 104, 2073-98	68.1	234
24	Exciton dynamics in ring-like photosynthetic light-harvesting complexes: a hopping model. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3097	3.6	20
23	Peptide Secondary Structure Determination by Three-Pulse Coherent Vibrational Spectroscopies: A Simulation Study. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18034-18045	3.4	34
22	Charge separation in molecular compounds from the charge transfer states: density matrix approach <b>2003</b> , 5122, 244		
21	Acceleration of charge separation by oscillations of the environment polarization. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 480-485	2.5	9
20	Geminate pair recombination in molecular systems with correlated disorder. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	4
19	Molecular Twisting and Relaxation in the Excited State of Triarylpyrylium Cations. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 8864-8869	2.8	11
18	The Role of the Initial Charge Separation in the Geminate Pair Recombination in Disordered Molecular Systems. <i>Molecular Crystals and Liquid Crystals</i> , <b>2001</b> , 355, 127-148		2
17	Charge separation and geminate recombination in sensitized photoconducting polymers. <i>Synthetic Metals</i> , <b>2000</b> , 109, 39-42	3.6	5
16	Geminate charge pair recombination in sensitized photoconducting polymer. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 5611-5616	3.9	13

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