Dassia Egorova

List of Publications by Year
in descending order

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Version: 2024-02-01

31 papers	1,357 citations	361413 20 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	1113 citing authors

#	Article	IF	Citations
1	Quantum dynamics of multi-dimensional rhodopsin photoisomerization models: Approximate versus accurate treatment of the secondary modes. Chemical Physics, 2018, 515, 164-176.	1.9	7
2	Two-dimensional photon-echo spectroscopy at a conical intersection: A two-mode pyrazine model with dissipation. Chemical Physics, 2016, 481, 206-217.	1.9	22
3	Real-time observation of multiexcitonic states in ultrafast singlet fission using coherent 2D electronic spectroscopy. Nature Chemistry, 2016, 8, 16-23.	13.6	308
4	Detection of dark states in two-dimensional electronic photon-echo signals via ground-state coherence. Journal of Chemical Physics, 2015, 142, 212452.	3.0	9
5	Vibrational Coherence Reveals the Role of Dark Multiexciton States in Ultrafast Singlet Exciton Fission. Springer Proceedings in Physics, 2015, , 226-229.	0.2	1
6	Vibrational Coherence Reveals the Role of Dark Multiexciton States in Ultrafast Singlet Exciton Fission. , 2014, , .		2
7	Oscillations in two-dimensional photon-echo signals of excitonic and vibronic systems: Stick-spectrum analysis and its computational verification. Journal of Chemical Physics, 2014, 140, 034314.	3.0	20
8	Signatures of conical intersections in two-dimensional electronic spectra. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124019.	1.5	32
9	Self-Analysis of Coherent Oscillations in Time-Resolved Optical Signals. Journal of Physical Chemistry A, 2014, 118, 10259-10267.	2.5	30
10	Strong-pump strong-probe spectroscopy: effects of higher excited electronic states. Physical Chemistry Chemical Physics, 2013, 15, 8119.	2.8	22
11	Towards microscopic assignment of oscillative signatures in two-dimensional electronic photon-echo signals of vibronic oligomers: A vibronic dimer model. Journal of Chemical Physics, 2013, 139, 144304.	3.0	13
12	Bath-induced correlations and relaxation of vibronic dimers. Journal of Chemical Physics, 2012, 136, 034507.	3.0	22
13	Optical N-Wave-Mixing Spectroscopy with Strong and Temporally Well-Separated Pulses: The Doorwayâ^'Window Representation. Journal of Physical Chemistry B, 2011, 115, 5648-5658.	2.6	19
14	Strong and Long Makes Short: Strong-Pump Strong-Probe Spectroscopy. Journal of Physical Chemistry Letters, 2011, 2, 114-119.	4.6	22
15	Exact quantum master equation for a molecular aggregate coupled to a harmonic bath. Physical Review E, 2011, 84, 041139.	2.1	20
16	Beyond Third-Order Response: Strong-Pulse and N-Wave-Mixing Optical Spectroscopies. , 2011, , .		0
17	Accurate Simulations of Two-Dimensional Photon-Echo Signals: What Have We Learnt?. , 2011, , .		0
18	Efficient and accurate simulations of two-dimensional electronic photon-echo signals: Illustration for a simple model of the Fennaâ€“Matthewsâ€“Olson complex. Journal of Chemical Physics, 2010, 132, 014501.	3.0	41

#	Article	IF	Citations
19	Efficient calculation of the polarization induced by N coherent laser pulses. Journal of Chemical Physics, 2009, 131, 194103.	3.0	22
20	Manipulating electronic couplings and nonadiabatic nuclear dynamics with strong laser pulses. Journal of Chemical Physics, 2009, 131, 124505.	3.0	27
21	Efficient Calculation of Time- and Frequency-Resolved Four-Wave-Mixing Signals. Accounts of Chemical Research, 2009, 42, 1290-1298.	15.6	87
22	Detection of electronic and vibrational coherences in molecular systems by 2D electronic photon echo spectroscopy. Chemical Physics, 2008, 347, 166-176.	1.9	56
23	Effects of intense femtosecond pumping on ultrafast electronic-vibrational dynamics in molecular systems with relaxation. Journal of Chemical Physics, 2008, 129, 214303.	3.0	45
24	Analysis of cross peaks in two-dimensional electronic photon-echo spectroscopy for simple models with vibrations and dissipation. Journal of Chemical Physics, 2007, 126, 074314.	3.0	85
25	Analysis of vibrational coherences in homodyne and two-dimensional heterodyne photon-echo spectra of Nile Blue. Chemical Physics, 2007, 341, 113-122.	1.9	22
26	Efficient method for the calculation of time- and frequency-resolved four-wave mixing signals and its application to photon-echo spectroscopy. Journal of Chemical Physics, 2005, 123, 164112.	3.0	80
27	Time- and frequency-resolved fluorescence spectra of nonadiabatic dissipative systems: What photons can tell us. Journal of Chemical Physics, 2005, 122, 134504.	3.0	44
28	Quantum dynamical simulations of ultrafast photoinduced electron-transfer processes. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 166, 19-31.	3.9	22
29	Coherent vibrational dynamics during ultrafast photoinduced electron-transfer reactions: quantum dynamical simulations within multilevel Redfield theory. Chemical Physics Letters, 2004, 384, 157-164.	2.6	24
30	Modeling of ultrafast electron-transfer processes: Validity of multilevel Redfield theory. Journal of Chemical Physics, 2003, 119, 2761-2773.	3.0	151
31	Modeling of ultrafast electron-transfer dynamics: multi-level Redfield theory and validity of approximations. Chemical Physics, 2001, 268, 105-120.	1.9	101