

Artur Nenov

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.

77
papers

2,489
citations

24
h-index

48
g-index

88
ext. papers

3,013
ext. citations

4.9
avg, IF

4.86
L-index

#	Paper	IF	Citations
77	Photo-Active Biological Molecular Materials: From Photoinduced Dynamics to Transient Electronic Spectroscopies. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2021 , 77-142	0.7	0
76	In Silico Ultrafast Nonlinear Spectroscopy Meets Experiments: The Case of Perylene Bisimide Dye. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 7134-7145	6.4	2
75	Parameterization of a linear vibronic coupling model with multiconfigurational electronic structure methods to study the quantum dynamics of photoexcited pyrene. <i>Journal of Chemical Physics</i> , 2021 , 154, 104106	3.9	6
74	Tailored Coumarin Dyes for Photoredox Catalysis: Calculation, Synthesis, and Electronic Properties. <i>ChemCatChem</i> , 2021 , 13, 981-989	5.2	3
73	Near-Ultraviolet Circular Dichroism and Two-Dimensional Spectroscopy of Polypeptides. <i>Molecules</i> , 2021 , 26,	4.8	1
72	iSPECTRON: A simulation interface for linear and nonlinear spectra with ab-initio quantum chemistry software. <i>Journal of Computational Chemistry</i> , 2021 , 42, 644-659	3.5	6
71	Manipulating Core Excitations in Molecules by X-Ray Cavities. <i>Physical Review Letters</i> , 2021 , 126, 0532017.4	7.4	3
70	Imaging conical intersection dynamics during azobenzene photoisomerization by ultrafast X-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
69	Tracking excited state decay mechanisms of pyrimidine nucleosides in real time.. <i>Nature Communications</i> , 2021 , 12, 7285	17.4	3
68	Conical Intersection Passages of Molecules Probed by X-ray Diffraction and Stimulated Raman Spectroscopy.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 12300-12309	6.4	1
67	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020 , 152, 214117	3.9	106
66	Boron-Doped Polycyclic Aromatic Hydrocarbons: A Molecular Set Revealing the Interplay between Topology and Singlet Fission Propensity. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1390-1396	6.4	13
65	A Unified Experimental/Theoretical Description of the Ultrafast Photophysics of Single and Double Thionated Uracils. <i>Chemistry - A European Journal</i> , 2020 , 26, 336-343	4.8	17
64	Spectral Tuning and Photoisomerization Efficiency in Push-Pull Azobenzenes: Designing Principles. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9513-9523	2.8	8
63	Tailoring Spectral and Photochemical Properties of Bioinspired Retinal Mimics by in Silico Engineering. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20619-20627	16.4	1
62	Tailoring Spectral and Photochemical Properties of Bioinspired Retinal Mimics by in Silico Engineering. <i>Angewandte Chemie</i> , 2020 , 132, 20800-20808	3.6	
61	Ultrafast Spectroscopy of Photoactive Molecular Systems from First Principles: Where We Stand Today and Where We Are Going. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16117-16139	16.4	23

60	UV-light induced vibrational coherences explain Kasha rule violation in trans-azobenzene. <i>EPJ Web of Conferences</i> , 2019 , 205, 09016	0.3	
59	Intersystem crossing in thiobases proceeds by a dark intermediate state. <i>EPJ Web of Conferences</i> , 2019 , 205, 10005	0.3	1
58	Conical intersection dynamics of pyrimidine nucleosides tracked with sub-20-fs UV pulses. <i>EPJ Web of Conferences</i> , 2019 , 205, 10007	0.3	
57	X-ray linear and non-linear spectroscopy of the ESCA molecule. <i>Journal of Chemical Physics</i> , 2019 , 151, 114110	3.9	10
56	Pyrene, a Test Case for Deep-Ultraviolet Molecular Photophysics. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3481-3487	6.4	22
55	Multidimensional Potential Energy Surfaces Resolved at the RASPT2 Level for Accurate Photoinduced Isomerization Dynamics of Azobenzene. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6813-6823	6.4	23
54	Exploring the capabilities of optical pump X-ray probe NEXAFS spectroscopy to track photo-induced dynamics mediated by conical intersections. <i>Faraday Discussions</i> , 2019 , 221, 245-264	3.6	12
53	Two-dimensional UV spectroscopy: a new insight into the structure and dynamics of biomolecules. <i>Chemical Science</i> , 2019 , 10, 9907-9921	9.4	24
52	QM/MM Photodynamics of Retinal in the Channelrhodopsin Chimera C1C2 with OM3/MRCI. <i>ChemPhotoChem</i> , 2019 , 3, 107-116	3.3	7
51	Towards Accurate Simulation of Two-Dimensional Electronic Spectroscopy. <i>Topics in Current Chemistry Collections</i> , 2019 , 63-112	1.8	3
50	Modeling multidimensional spectral lineshapes from first principles: application to water-solvated adenine. <i>Faraday Discussions</i> , 2019 , 221, 219-244	3.6	17
49	Impacts of hydroxylation on the photophysics of chalcones: insights into the relation between the chemical composition and the electronic structure. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8924-8934	3.6	3
48	The highly excited-state manifold of guanine: calibration for nonlinear electronic spectroscopy simulations. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	10
47	UV-Light-Induced Vibrational Coherences: The Key to Understand Kasha Rule Violation in trans-Azobenzene. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1534-1541	6.4	76
46	UV-induced long-lived decays in solvated pyrimidine nucleosides resolved at the MS-CASPT2/MM level. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6877-6890	3.6	32
45	The effect of solvent relaxation in the ultrafast time-resolved spectroscopy of solvated benzophenone. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 323-331	4.2	8
44	Two-dimensional electronic spectroscopy as a tool for tracking molecular conformations in DNA/RNA aggregates. <i>Faraday Discussions</i> , 2018 , 207, 233-250	3.6	10
43	Photoinduced formation mechanism of the thymine-thymine (6-4) adduct in DNA; a QM(CASPT2//CASSCF):MM(AMBER) study. <i>Faraday Discussions</i> , 2018 , 207, 375-387	3.6	15

42	Theoretical Model of the Protochlorophyllide Oxidoreductase from a Hierarchy of Protocols. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7668-7681	3.4	7
41	Linear absorption spectra of solvated thiouracils resolved at the hybrid RASPT2/MM level. <i>Chemical Physics</i> , 2018 , 515, 643-653	2.3	13
40	Towards Accurate Simulation of Two-Dimensional Electronic Spectroscopy. <i>Topics in Current Chemistry</i> , 2018 , 376, 24	7.2	16
39	Observation of the Sub-100 Femtosecond Population of a Dark State in a Thiobase Mediating Intersystem Crossing. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16087-16093	16.4	39
38	COBRAMM 2.0 - A software interface for tailoring molecular electronic structure calculations and running nanoscale (QM/MM) simulations. <i>Journal of Molecular Modeling</i> , 2018 , 24, 271	2	29
37	Relationship between Excited State Lifetime and Isomerization Quantum Yield in Animal Rhodopsins: Beyond the One-Dimensional Landau-Zener Model. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3315-3322	6.4	20
36	Photophysics of Deoxycytidine and 5-Methyldeoxycytidine in Solution: A Comprehensive Picture by Quantum Mechanical Calculations and Femtosecond Fluorescence Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7780-7791	16.4	49
35	Resolving Ultrafast Photoinduced Deactivations in Water-Solvated Pyrimidine Nucleosides. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1777-1783	6.4	43
34	On the Simulation of Two-dimensional Electronic Spectroscopy of Indole-containing Peptides. <i>Photochemistry and Photobiology</i> , 2017 , 93, 1368-1380	3.6	10
33	Multiple Electronic and Structural Factors Control Cyclobutane Pyrimidine Dimer and 6-4 Thymine-Thymine Photodimerization in a DNA Duplex. <i>Chemistry - A European Journal</i> , 2017 , 23, 15177-15188	4.8	32
32	Multiple Decay Mechanisms and 2D-UV Spectroscopic Fingerprints of Singlet Excited Solvated Adenine-Uracil Monophosphate. <i>Chemistry - A European Journal</i> , 2016 , 22, 7497-507	4.8	26
31	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016 , 37, 506-41	3.5	1047
30	Intramolecular photo-induced charge transfer in visual retinal chromophore mimics: electron density-based indices at the TD-DFT and post-HF levels. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	11
29	Ultraviolet vision: photophysical properties of the unprotonated retinyl Schiff base in the Siberian hamster cone pigment. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	4
28	Spectroscopic fingerprints of DNA/RNA pyrimidine nucleobases in third-order nonlinear electronic spectra. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	24
27	Photoelectrochromism in the Retinal Protonated Schiff Base Chromophore: Photoisomerization Speed and Selectivity under a Homogeneous Electric Field at Different Operational Regimes. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 4460-75	6.4	5
26	Excited state evolution of DNA stacked adenines resolved at the CASPT2//CASSCF/Amber level: from the bright to the excimer state and back. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7291-302	3.6	31
25	Tracking the primary photoconversion events in rhodopsins by ultrafast optical spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 213-28	4.2	27

24	Two-Dimensional Electronic Spectroscopy of Benzene, Phenol, and Their Dimer: An Efficient First-Principles Simulation Protocol. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3755-71	6.4	23
23	Probing deactivation pathways of DNA nucleobases by two-dimensional electronic spectroscopy: first principles simulations. <i>Faraday Discussions</i> , 2015 , 177, 345-62	3.6	27
22	Anilino-Substituted Multicyanobuta-1,3-diene Electron Acceptors: TICT Molecules with Accessible Conical Intersections. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 10677-83	2.8	13
21	Modeling the high-energy electronic state manifold of adenine: Calibration for nonlinear electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 212443	3.9	37
20	Future challenges: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 517-45	3.6	3
19	Deciphering the photochemical mechanisms describing the UV-induced processes occurring in solvated guanine monophosphate. <i>Frontiers in Chemistry</i> , 2015 , 3, 29	5	23
18	Spectral lineshapes in nonlinear electronic spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30925-36	3.6	34
17	Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 121-54	3.6	8
16	Local and Global Dynamics: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 381-403	3.6	
15	Tuning of Isomerization Rates in Indigo-Based Photoswitches. <i>Springer Proceedings in Physics</i> , 2015 , 391-394	3.6	8
14	Modelling retinal chromophores photoisomerization: from minimal models in vacuo to ultimate bidimensional spectroscopy in rhodopsins. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16865-79	3.6	30
13	Modelling time-resolved two-dimensional electronic spectroscopy of the primary photoisomerization event in rhodopsin. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8396-405	3.4	27
12	Disentangling Peptide Configurations via Two-Dimensional Electronic Spectroscopy: Ab Initio Simulations Beyond the Frenkel Exciton Hamiltonian. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 767-771	6.4	31
11	Tracking conformational dynamics of polypeptides by nonlinear electronic spectroscopy of aromatic residues: a first-principles simulation study. <i>ChemPhysChem</i> , 2014 , 15, 3282-90	3.2	22
10	Making fast photoswitches faster--using Hammett analysis to understand the limit of donor-acceptor approaches for faster hemithioindigo photoswitches. <i>Chemistry - A European Journal</i> , 2014 , 20, 13984-92	4.8	55
9	Bidimensional electronic spectroscopy on indole in gas phase and in water from first principles. <i>Computational and Theoretical Chemistry</i> , 2014 , 1040-1041, 295-303	2	20
8	Ab initio simulations of two-dimensional electronic spectra: The SOS//QM/MM approach. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 85-93	2.1	34
7	Molecular model of the ring-opening and ring-closure reaction of a fluorinated indolyfulgide. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 10518-28	2.8	17

6	Conical intersection seams in polyenes derived from their chemical composition. <i>Journal of Chemical Physics</i> , 2012 , 137, 074101	3.9	10
5	Geometrical and substituent effects in conical intersections: linking chemical structure and photoreactivity in polyenes. <i>Journal of Chemical Physics</i> , 2011 , 135, 034304	3.9	17
4	Beyond the van der Lugt/Oosterhoff model: when the conical intersection seam and the S1 minimum energy path do not cross. <i>Journal of Organic Chemistry</i> , 2010 , 75, 123-9	4.2	46
3	Molecular driving forces for Z/E isomerization mediated by heteroatoms: the example hemithioindigo. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 13016-30	2.8	51
2	Accelerated and efficient photochemistry from higher excited electronic states in fulgide molecules. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13364-71	2.8	38
1	Tracking excited state decay mechanisms of pyrimidine nucleosides in real time		3