

# Josiah A Bjorgaard

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

915  
citations

516710

16  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1179  
citing authors

#	ARTICLE	IF	CITATIONS
1	NEXMD Software Package for Nonadiabatic Excited State Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5771-5783.	5.3	56
2	Non-adiabatic Excited-State Molecular Dynamics: Theory and Applications for Modeling Photophysics in Extended Molecular Materials. <i>Chemical Reviews</i> , 2020, 120, 2215-2287.	47.7	231
3	Extended Lagrangian Excited State Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 799-806.	5.3	8
4	Density functional theory study of cerium deuterides. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
5	Photoexcited Nonadiabatic Dynamics of Solvated Push-Pull $\pi$ -Conjugated Oligomers with the NEXMD Software. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3955-3966.	5.3	39
6	Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A TD-DFT study. <i>Journal of Chemical Physics</i> , 2017, 146, 114308.	3.0	13
7	Photoactive Excited States in Explosive Fe(II) Tetrazine Complexes: A Time-Dependent Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28762-28773.	3.1	13
8	Nonequilibrium solvent effects in Born-Oppenheimer molecular dynamics for ground and excited electronic states. <i>Journal of Chemical Physics</i> , 2016, 144, 154104.	3.0	7
9	Two-Photon Absorption in Conjugated Energetic Molecules. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4455-4464.	2.5	19
10	Ultrafast Photodissociation Dynamics of Nitromethane. <i>Journal of Physical Chemistry A</i> , 2016, 120, 519-526.	2.5	39
11	Energetic Chromophores: Low-Energy Laser Initiation in Explosive Fe(II) Tetrazine Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 4685-4692.	13.7	120
12	Non-degenerate two photon absorption enhancement for laser dyes by precise lock-in detection. <i>AIP Advances</i> , 2015, 5, 127138.	1.3	3
13	Solvent effects in time-dependent self-consistent field methods. II. Variational formulations and analytical gradients. <i>Journal of Chemical Physics</i> , 2015, 143, 054305.	3.0	46
14	Solvent effects in time-dependent self-consistent field methods. I. Optical response calculations. <i>Journal of Chemical Physics</i> , 2015, 142, 044103.	3.0	28
15	Simulations of singlet exciton diffusion in organic semiconductors: a review. <i>RSC Advances</i> , 2015, 5, 8432-8445.	3.6	45
16	Simulations of fluorescence solvatochromism in substituted PPV oligomers from excited state molecular dynamics with implicit solvent. <i>Chemical Physics Letters</i> , 2015, 631-632, 66-69.	2.6	9
17	Photoactive High Explosives: Linear and Nonlinear Photochemistry of Petrin Tetrazine Chloride. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4846-4855.	2.5	34
18	Simulations of Exciton Diffusion and Trapping in Semicrystalline Morphologies of Poly(3-hexylthiophene). <i>Journal of Physical Chemistry C</i> , 2014, 118, 5756-5761.	3.1	16

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19	Amplified quenching of conjugated polymer nanoparticle photoluminescence for robust measurement of exciton diffusion length. <i>Journal of Applied Physics</i> , 2013, 113, 203707.	2.5	6
20	Effective Solubilization of Single-Walled Carbon Nanotubes in THF Using PEGylated Corannulene Dispersant. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3500-3503.	8.0	12
21	Theoretical Study of Torsional Disorder in Poly(3-alkylthiophene) Single Chains: Intramolecular Charge-Transfer Character and Implications for Photovoltaic Properties. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3869-3876.	2.5	23
22	Quinoxaline-Based Semiconducting Polymers: Effect of Fluorination on the Photophysical, Thermal, and Charge Transport Properties. <i>Macromolecules</i> , 2012, 45, 6380-6389.	4.8	61
23	Tuning Photophysics and Nonlinear Absorption of Bipyridyl Platinum(II) Bisstilbenylacetylde Complexes by Auxiliary Substituents. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4878-4889.	2.5	30
24	Synthesis, photophysics, and photovoltaic properties of low-band gap conjugated polymers based on thieno[3,4-c]pyrrole-4,6-dione: a combined experimental and computational study. <i>RSC Advances</i> , 2012, 2, 642-651.	3.6	31
25	Low Band Gap Star-Shaped Molecules Based on Benzothia(oxa)diazole for Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15097-15108.	3.1	22