Josiah A Bjorgaard

List of Publications by Year
in descending order

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25	915	516710 16	580821 25
papers	citations	h-index	g-index

26	26	26	1179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-adiabatic Excited-State Molecular Dynamics: Theory and Applications for Modeling Photophysics in Extended Molecular Materials. Chemical Reviews, 2020, 120, 2215-2287.	47.7	231
2	Energetic Chromophores: Low-Energy Laser Initiation in Explosive Fe(II) Tetrazine Complexes. Journal of the American Chemical Society, 2016, 138, 4685-4692.	13.7	120
3	Quinoxaline-Based Semiconducting Polymers: Effect of Fluorination on the Photophysical, Thermal, and Charge Transport Properties. Macromolecules, 2012, 45, 6380-6389.	4.8	61
4	NEXMD Software Package for Nonadiabatic Excited State Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2020, 16, 5771-5783.	5.3	56
5	Solvent effects in time-dependent self-consistent field methods. II. Variational formulations and analytical gradients. Journal of Chemical Physics, 2015, 143, 054305.	3.0	46
6	Simulations of singlet exciton diffusion in organic semiconductors: a review. RSC Advances, 2015, 5, 8432-8445.	3.6	45
7	Ultrafast Photodissociation Dynamics of Nitromethane. Journal of Physical Chemistry A, 2016, 120, 519-526.	2.5	39
8	Photoexcited Nonadiabatic Dynamics of Solvated Pushâ€“Pull Ï€-Conjugated Oligomers with the NEXMD Software. Journal of Chemical Theory and Computation, 2018, 14, 3955-3966.	5.3	39
9	Photoactive High Explosives: Linear and Nonlinear Photochemistry of Petrin Tetrazine Chloride. Journal of Physical Chemistry A, 2015, 119, 4846-4855.	2.5	34
10	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. RSC Advances, 2012, 2, 642-651.	3.6	31
11	Tuning Photophysics and Nonlinear Absorption of Bipyridyl Platinum(II) Bisstilbenylacetylide Complexes by Auxiliary Substituents. Journal of Physical Chemistry A, 2012, 116, 4878-4889.	2.5	30
12	Solvent effects in time-dependent self-consistent field methods. I. Optical response calculations. Journal of Chemical Physics, 2015, 142, 044103.	3.0	28
13	Theoretical Study of Torsional Disorder in Poly(3-alkylthiophene) Single Chains: Intramolecular Charge-Transfer Character and Implications for Photovoltaic Properties. Journal of Physical Chemistry A, 2013, 117, 3869-3876.	2.5	23
14	Low Band Gap Star-Shaped Molecules Based on Benzothia(oxa)diazole for Organic Photovoltaics. Journal of Physical Chemistry C, 2011, 115, 15097-15108.	3.1	22
15	Two-Photon Absorption in Conjugated Energetic Molecules. Journal of Physical Chemistry A, 2016, 120, 4455-4464.	2.5	19
16	Simulations of Exciton Diffusion and Trapping in Semicrystalline Morphologies of Poly(3-hexylthiophene). Journal of Physical Chemistry C, 2014, 118, 5756-5761.	3.1	16
17	Photoactive Excited States in Explosive Fe(II) Tetrazine Complexes: A Time-Dependent Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 28762-28773.	3.1	13
18	Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A TD-DFT study. Journal of Chemical Physics, 2017, 146, 114308.	3.0	13

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19	Effective Solubilization of Single-Walled Carbon Nanotubes in THF Using PEGylated Corannulene Dispersant. ACS Applied Materials & Interfaces, 2013, 5, 3500-3503.	8.0	12
20	Simulations of fluorescence solvatochromism in substituted PPV oligomers from excited state molecular dynamics with implicit solvent. Chemical Physics Letters, 2015, 631-632, 66-69.	2.6	9
21	Extended Lagrangian Excited State Molecular Dynamics. Journal of Chemical Theory and Computation, 2018, 14, 799-806.	5.3	8
22	Nonequilibrium solvent effects in Born-Oppenheimer molecular dynamics for ground and excited electronic states. Journal of Chemical Physics, 2016, 144, 154104.	3.0	7
23	Amplified quenching of conjugated polymer nanoparticle photoluminescence for robust measurement of exciton diffusion length. Journal of Applied Physics, 2013, 113, 203707.	2.5	6
24	Non-degenerate two photon absorption enhancement for laser dyes by precise lock-in detection. AIP Advances, 2015, 5, 127138.	1.3	3
25	Density functional theory study of cerium deuterides. AIP Conference Proceedings, 2018, , .	0.4	3