

# Joshua D Coe

## List of Publications by Year in descending order

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34  
papers

1,273  
citations

566801

15  
h-index

395343

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing Conical Intersections without Derivative Coupling Vectors: Application to Multistate Multireference Second-Order Perturbation Theory (MS-CASPT2). <i>Journal of Physical Chemistry B</i> , 2008, 112, 405-413.	1.2	340
2	Implementation of ab initio multiple spawning in the Molpro quantum chemistry package. <i>Chemical Physics</i> , 2008, 347, 3-16.	0.9	190
3	Competitive Decay at Two- and Three-State Conical Intersections in Excited-State Intramolecular Proton Transfer. <i>Journal of the American Chemical Society</i> , 2005, 127, 4560-4561.	6.6	117
4	Ab Initio Molecular Dynamics of Excited-State Intramolecular Proton Transfer Using Multireference Perturbation Theory. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11302-11310.	1.1	110
5	Ab Initio Molecular Dynamics of Excited-State Intramolecular Proton Transfer around a Three-State Conical Intersection in Malonaldehyde. <i>Journal of Physical Chemistry A</i> , 2006, 110, 618-630.	1.1	92
6	An "optimal" spawning algorithm for adaptive basis set expansion in nonadiabatic dynamics. <i>Journal of Chemical Physics</i> , 2009, 130, 134113.	1.2	82
7	On the Extent and Connectivity of Conical Intersection Seams and the Effects of Three-State Intersections. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12559-12567.	1.1	46
8	Ab initio multiple spawning dynamics of excited state intramolecular proton transfer: the role of spectroscopically dark states. <i>Molecular Physics</i> , 2008, 106, 537-545.	0.8	31
9	Shock-Driven Decomposition of Polymers and Polymeric Foams. <i>Polymers</i> , 2019, 11, 493.	2.0	30
10	Intermolecular Stabilization of 3,3-Diamino-4,4-azoxyfuran (DAAF) Compressed to 20 GPa. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5969-5982.	1.1	25
11	Shockwave response of two carbon fiber-polymer composites to 50 GPa. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	24
12	Reactive, anomalous compression in shocked polyurethane foams. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	23
13	The influence of morphology on the low- and high-strain-rate compaction response of CeO <sub>2</sub> powders. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	18
14	Nested Markov chain Monte Carlo sampling of a density functional theory potential: Equilibrium thermodynamics of dense fluid nitrogen. <i>Journal of Chemical Physics</i> , 2009, 131, 074105.	1.2	16
15	AWS calibration for the HMX based explosive PBX 9501. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	16
16	Modeling Deep Burn TRISO particle nuclear fuel. <i>Journal of Nuclear Materials</i> , 2012, 430, 181-189.	1.3	14
17	Chemical stability of molten 2,4,6-trinitrotoluene at high pressure. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	13
18	Optimal sampling efficiency in Monte Carlo simulation with an approximate potential. <i>Journal of Chemical Physics</i> , 2009, 130, 164104.	1.2	12

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19	Reactive Monte Carlo sampling with an <i>ab initio</i> potential. Journal of Chemical Physics, 2016, 144, 174109.	1.2	12
20	An efficient approach to <i>ab initio</i> Monte Carlo simulation. Journal of Chemical Physics, 2014, 140, 034106.	1.2	9
21	Shock-driven chemistry and reactive wave dynamics in liquid benzene. AIP Conference Proceedings, 2017, , .	0.3	9
22	Equations of state for polyethylene and its shock-driven decomposition products. Journal of Applied Physics, 2019, 126, .	1.1	9
23	Shock-induced chemistry of phenylacetylene. Journal of Physics: Conference Series, 2014, 500, 022004.	0.3	8
24	Polysulfone shock compressed above the decomposition threshold: Velocimetry and modeling of two-wave structures. Journal of Applied Physics, 2020, 127, 105902.	1.1	7
25	The equation of state and shock-driven decomposition of polymethylmethacrylate (PMMA). Journal of Applied Physics, 2022, 131, .	1.1	5
26	Multiphase equation of state and thermoelastic data for polycrystalline beryllium. AIP Conference Proceedings, 2020, , .	0.3	4
27	A reactive flow model for the 3,3'-diamino-4,4'-azoxyfurazan based plastic bonded explosive (PBX 9701). Journal of Applied Physics, 2021, 130, .	1.1	3
28	Equations of state and shock-driven chemistry in poly(dimethylsiloxane)-based foams. AIP Conference Proceedings, 2018, , .	0.3	2
29	Shockwave compression and dissociation of ammonia gas. Journal of Chemical Physics, 2019, 150, 024305.	1.2	2
30	A quantum chemical method for calculating vibrational line shifts in diatomic fluids. Chemical Physics Letters, 2008, 464, 265-270.	1.2	1
31	Deep-release of Epon 828 epoxy from the shock-driven reaction product phase. AIP Conference Proceedings, 2018, , .	0.3	1
32	Reshock analysis for PMMA driven above the threshold for chemical decomposition. AIP Conference Proceedings, 2020, , .	0.3	1
33	Hydrodynamic simulations of shock-driven chemistry in polyimide. AIP Conference Proceedings, 2020, , .	0.3	1
34	The Melt Enthalpy of Pu6Fe. Applied Sciences (Switzerland), 2021, 11, 10800.	1.3	0