Markus SchrÃ¶der

List of Publications by Year
in descending order

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16	448	933447 10	1058476 14
papers	citations	h-index	g-index

17	17	17	377
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Dimensional Quantum Dynamics Study on Excitation-Specific Surface Scattering Including Lattice Effects of a Five-Atom Surface Cell. Journal of Chemical Theory and Computation, 2021, 17, 2702-2713.	5.3	6
2	Transforming high-dimensional potential energy surfaces into a canonical polyadic decomposition using Monte Carlo methods. Journal of Chemical Physics, 2020, 152, 024108.	3.0	31
3	Transforming high-dimensional potential energy surfaces into sum-of-products form using Monte Carlo methods. Journal of Chemical Physics, 2017, 147, 064105.	3.0	34
4	Calculation of the vibrational excited states of malonaldehyde and their tunneling splittings with the multi-configuration time-dependent Hartree method. Journal of Chemical Physics, 2014, 141, 034116.	3.0	50
5	Vibrational Spectroscopy and Molecular Dynamics. Physical Chemistry in Action, 2014, , 117-145.	0.6	1
6	Ab Initio Potential Energy and Dipole Moment Surfaces for CS₂: Determination of Molecular Vibrational Energies. Journal of Physical Chemistry A, 2013, 117, 6925-6931.	2.5	21
7	Numerical Studies of the Tunneling Splitting of Malonaldehyde and the Eigenstates of Hydrated Hydroxide Anion Using MCTDH. , 2013, , 201-218.		0
8	Suitable coordinates for quantum dynamics: Applications using the multiconfiguration time-dependent Hartree (MCTDH) algorithm. Computational and Theoretical Chemistry, 2012, 990, 75-89.	2.5	18
9	Theoretical studies of the tunneling splitting of malonaldehyde using the multiconfiguration time-dependent Hartree approach. Journal of Chemical Physics, 2011, 134, 234307.	3.0	103
10	Generalized filtering of laser fields in optimal control theory: application to symmetry filtering of quantum gate operations. New Journal of Physics, 2009, 11, 105031.	2.9	18
11	Realization of the CNOT quantum gate operation in six-dimensional ammonia using the OCT-MCTDH approach. Journal of Chemical Physics, 2009, 131, 034101.	3.0	30
12	Implementation of an iterative algorithm for optimal control of molecular dynamics into MCTDH. Physical Chemistry Chemical Physics, 2008, 10, 850-856.	2.8	25
13	Calculation of absorption spectra for light-harvesting systems using non-Markovian approaches as well as modified Redfield theory. Journal of Chemical Physics, 2006, 124, 084903.	3.0	104
14	Absorption spectra for a model light-harvesting system using non-Markovian theories. Journal of Luminescence, 2005, 112, 461-464.	3.1	5
15	A Monte Carlo method for propagating multi-dimensional wave packets. Physica Status Solidi (B): Basic Research, 2004, 241, 2157-2167.	1.5	1
16	Representation of Diabatic Potential Energy Matrices for Multiconfiguration Time-Dependent Hartree Treatments of High-Dimensional Nonadiabatic Photodissociation Dynamics. Journal of Chemical Theory and Computation, 0, , .	5.3	1