

Titus S Van Erp

List of Publications by Year in descending order

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63
papers

2,443
citations

201385

27
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205818

48
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65
all docs

65
docs citations

65
times ranked

2214
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin film breakage in oil-in-water emulsions, a multidisciplinary study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127808.	2.3	3
2	The role of pressure and defects in the wurtzite to rock salt transition in cadmium selenide. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8378-8386.	1.3	1
3	Exact non-Markovian permeability from rare event simulations. <i>Physical Review Research</i> , 2021, 3, .	1.3	12
4	Permeation Rates of Oxygen through a Lipid Bilayer Using Replica Exchange Transition Interface Sampling. <i>Journal of Physical Chemistry B</i> , 2021, 125, 193-201.	1.2	9
5	PyRETIS 2: An improbability drive for rare events. <i>Journal of Computational Chemistry</i> , 2020, 41, 370-377.	1.5	20
6	Teaching complex molecular simulation algorithms: Using self-evaluation to tailor web-based exercises at an individual level. <i>Computer Applications in Engineering Education</i> , 2020, 28, 779-791.	2.2	2
7	Molecular Structure and Solubility Determination of Asphaltenes. <i>Energy & Fuels</i> , 2019, 33, 8259-8270.	2.5	22
8	Local initiation conditions for water autoionization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4569-E4576.	3.3	52
9	Improving the mesoscopic modeling of DNA denaturation dynamics. <i>Physical Biology</i> , 2018, 15, 066001.	0.8	1
10	Diffusion of gas mixtures in the sl hydrate structure. <i>Journal of Chemical Physics</i> , 2018, 148, 214701.	1.2	17
11	Multiscale partial charge estimation on graphene for neutral, doped and charged flakes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20678-20687.	1.3	2
12	Rare event simulations reveal subtle key steps in aqueous silicate condensation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13361-13371.	1.3	27
13	PyRETIS: A well-done, medium-sized python library for rare events. <i>Journal of Computational Chemistry</i> , 2017, 38, 2439-2451.	1.5	30
14	Fast Decorrelating Monte Carlo Moves for Efficient Path Sampling. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4456-4460.	2.1	21
15	Foundations and latest advances in replica exchange transition interface sampling. <i>Journal of Chemical Physics</i> , 2017, 147, 152722.	1.2	43
16	Analyzing Complex Reaction Mechanisms Using Path Sampling. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5398-5410.	2.3	25
17	A test on reactive force fields for the study of silica dimerization reactions. <i>Journal of Chemical Physics</i> , 2015, 143, 184113.	1.2	19
18	Gluing Potential Energy Surfaces with Rare Event Simulations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2440-2450.	2.3	5

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19	Heat and Mass Transfer across Interfaces in Complex Nanogeometries. <i>Physical Review Letters</i> , 2015, 114, 065901.	2.9	19
20	A procedure to find thermodynamic equilibrium constants for CO ₂ and CH ₄ adsorption on activated carbon. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8223-8230.	1.3	6
21	Mesoscopic modeling of DNA denaturation rates: Sequence dependence and experimental comparison. <i>Journal of Chemical Physics</i> , 2015, 142, 235101.	1.2	5
22	Low barriers for hydrogen diffusion in sII clathrate. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13808-13812.	1.3	34
23	Density Functional Theory Study on the Interactions of Metal Ions with Long Chain Deprotonated Carboxylic Acids. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10195-10203.	1.1	33
24	Ab Initio Molecular Dynamics Study on the Interactions between Carboxylate Ions and Metal Ions in Water. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10710-10719.	1.2	28
25	On the relation between the Langmuir and thermodynamic flux equations. <i>Frontiers in Physics</i> , 2014, 1, .	1.0	7
26	Enantioselective adsorption of ibuprofen and lysine in metal-organic frameworks. <i>Chemical Communications</i> , 2014, 50, 10849.	2.2	52
27	Enantiomeric Adsorption of Lactic Acid Mixtures in Achiral Zeolites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14991-14997.	1.5	3
28	Efficient Numerical Reconstruction of Protein Folding Kinetics with Partial Path Sampling and Pathlike Variables. <i>Physical Review Letters</i> , 2013, 110, 108106.	2.9	41
29	Adsorption of Polar Enantiomers in Achiral Zeolites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1524-1530.	1.5	12
30	The dynamics of the DNA denaturation transition. <i>Europhysics Letters</i> , 2012, 98, 48004.	0.7	12
31	Molecular Dynamics in Principal Component Space. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8350-8354.	1.2	21
32	²⁹ Si NMR and UV-Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Sol-Gel Chemistry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3562-3571.	1.5	72
33	Continuous Synthesis Process of Hexagonal Nanoplates of P6m Ordered Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2011, 133, 13737-13745.	6.6	54
34	A standardization for BET fitting of adsorption isotherms. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 188-193.	2.2	35
35	Investigation of the Mechanism of Colloidal Silicalite-1 Crystallization by Using DLS, SAXS, and ²⁹ Si NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2010, 16, 2764-2774.	1.7	60
36	Enantioselective Adsorption in Achiral Zeolites. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3010-3013.	7.2	36

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37	On the application of chiral amplification via adsorption. <i>Chemical Engineering Science</i> , 2010, 65, 6478-6485.	1.9	6
38	Effective Monte Carlo Scheme for Multicomponent Gas Adsorption and Enantioselectivity in Nanoporous Materials. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2154-2158.	2.1	14
39	Investigation of Nanoparticles Occurring in the Colloidal Silicalite-1 Zeolite Crystallization Process Using Dissolution Experiments. <i>Chemistry of Materials</i> , 2010, 22, 3619-3629.	3.2	21
40	Enantioselective Adsorption Characteristics of Aluminum-Substituted MFI Zeolites. <i>Chemistry of Materials</i> , 2010, 22, 4591-4601.	3.2	15
41	Kinetics of intermediate-mediated self-assembly in nanosized materials: A generic model. <i>Journal of Chemical Physics</i> , 2010, 132, 164701.	1.2	11
42	Comment on "A generalized Langevin formalism of complete DNA melting transition" by Das T. and Chakraborty S.. <i>Europhysics Letters</i> , 2009, 85, 68003.	0.7	5
43	Efficient path sampling on multiple reaction channels. <i>Computer Physics Communications</i> , 2008, 179, 34-40.	3.0	10
44	Reaction Rate Calculation by Parallel Path Swapping. <i>Physical Review Letters</i> , 2007, 98, 268301.	2.9	91
45	Prospects of transition interface sampling simulations for the theoretical study of zeolite synthesis. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1044.	1.3	11
46	Bubbles and denaturation in DNA. <i>European Physical Journal E</i> , 2006, 20, 421-434.	0.7	64
47	Efficiency analysis of reaction rate calculation methods using analytical models I: The two-dimensional sharp barrier. <i>Journal of Chemical Physics</i> , 2006, 125, 174106.	1.2	39
48	van Erpet's Reply. <i>Physical Review Letters</i> , 2006, 97, .	2.9	8
49	van Erpet's Reply. <i>Physical Review Letters</i> , 2006, 96, .	2.9	9
50	Elaborating transition interface sampling methods. <i>Journal of Computational Physics</i> , 2005, 205, 157-181.	1.9	229
51	Breakdown of Lindstedt expansion for chaotic maps. <i>Journal of Mathematical Physics</i> , 2005, 46, 102702.	0.5	5
52	Simultaneous computation of free energies and kinetics of rare events. <i>Physical Review E</i> , 2005, 71, 056709.	0.8	38
53	Can One Predict DNA Transcription Start Sites by Studying Bubbles?. <i>Physical Review Letters</i> , 2005, 95, 218104.	2.9	62
54	Rate constants for diffusive processes by partial path sampling. <i>Journal of Chemical Physics</i> , 2004, 120, 4055-4065.	1.2	155

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55	Proton-Assisted Ethylene Hydration in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1660-1662.	7.2	27
56	Investigating rare events by transition interface sampling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 395-401.	1.2	68
57	Ab initio molecular dynamics study of liquid methanol. <i>Chemical Physics Letters</i> , 2003, 367, 617-624.	1.2	79
58	Ab initiomolecular dynamics study of aqueous solvation of ethanol and ethylene. <i>Journal of Chemical Physics</i> , 2003, 118, 8831-8840.	1.2	59
59	A novel path sampling method for the calculation of rate constants. <i>Journal of Chemical Physics</i> , 2003, 118, 7762-7774.	1.2	434
60	Aubry transition studied by direct evaluation of the modulation functions of infinite incommensurate systems. <i>Europhysics Letters</i> , 2002, 59, 330-336.	0.7	6
61	Structural transitions and phonon localization in frenkel kontorova models with quasi-periodic potentials. <i>Ferroelectrics</i> , 2001, 250, 421-424.	0.3	3
62	Hydration of methanol in water. A DFT-based molecular dynamics study. <i>Chemical Physics Letters</i> , 2001, 333, 290-296.	1.2	68
63	Pinning and phonon localization in Frenkel-Kontorova models on quasiperiodic substrates. <i>Physical Review B</i> , 1999, 60, 6522-6528.	1.1	36