Dhagash Mehta

List of Publications by Year
in descending order

45	957	393982	476904
papers	citations	19 h-index	29 g-index

45	45	45	584
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three Formulations of the Kuramoto Model as a System of Polynomial Equations. , 2019, , .		2
2	On the Network Topology Dependent Solution Count of the Algebraic Load Flow Equations. IEEE Transactions on Power Systems, 2018, 33, 1451-1460.	4.6	23
3	Counting Equilibria of the Kuramoto Model Using Birationally Invariant Intersection Index. SIAM Journal on Applied Algebra and Geometry, 2018, 2, 489-507.	0.9	14
4	Loss surface of XOR artificial neural networks. Physical Review E, 2018, 97, 052307.	0.8	16
5	Energy landscapes for machine learning. Physical Chemistry Chemical Physics, 2017, 19, 12585-12603.	1.3	71
6	Properties of kinetic transition networks for atomic clusters and glassy solids. Physical Chemistry Chemical Physics, 2017, 19, 25498-25508.	1.3	15
7	Parallel degree computation for binomial systems. Journal of Symbolic Computation, 2017, 79, 535-558.	0.5	2
8	Numerical polynomial homotopy continuation method to locate all the power flow solutions. IET Generation, Transmission and Distribution, 2016, 10, 2972-2980.	1.4	60
9	Algebraic Geometric Method for Calculating Phase Equilibria from Fundamental Equations of State. Industrial & Engineering Chemistry Research, 2016, 55, 11363-11370.	1.8	0
10	Toward topologically based upper bounds on the number of power flow solutions. , 2016, , .		16
11	Recent advances in computational methods for the power flow equations. , 2016, , .		38
12	Kinetic Transition Networks for the Thomson Problem and Smaleâ€™s Seventh Problem. Physical Review Letters, 2016, 117, 028301.	2.9	21
13	Reliable mixture critical point computation using polynomial homotopy continuation. AICHE Journal, 2016, 62, 4497-4507.	1.8	3
14	Statistics of stationary points of random finite polynomial potentials. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P09012.	0.9	6
15	Response to â€œComment on â€˜Exploring the potential energy landscape of the Thomson problem via Newton homotopiesâ€™ [J. Chem. Phys. 143, 247101 (2015)]. Journal of Chemical Physics, 2015, 143, 247102.	1.2	0
16	Exploring the potential energy landscape of the Thomson problem via Newton homotopies. Journal of Chemical Physics, 2015, 142, 194113.	1.2	10
17	Algebraic geometrization of the Kuramoto model: Equilibria and stability analysis. Chaos, 2015, 25, 053103.	1.0	45
18	Global structure of curves from generalized unitarity cut of three-loop diagrams. Journal of High Energy Physics, 2015, 2015, 1.	1.6	9

#	Article	IF	Citations
19	Energy landscape of the finite-size mean-field 2-spin spherical model and topology trivialization. Physical Review E, 2015, 91, 022133.	0.8	7
20	Equilibria analysis of power systems using a numerical homotopy method. , 2015, , .		9
21	Exploring the impact of wind penetration on power system equilibrium using a numerical continuation approach. , 2015, , .		11
22	Gauge-fixing on the lattice via orbifolding. Physical Review D, 2014, 90, .	1.6	2
23	Communication: Newton homotopies for sampling stationary points of potential energy landscapes. Journal of Chemical Physics, 2014, 141, 121104.	1.2	15
24	Certification and the potential energy landscape. Journal of Chemical Physics, 2014, 140, 224114.	1.2	5
25	Enumerating copies in the first Gribov region on the lattice in up to four dimensions. Physical Review D, 2014, 89, .	1.6	9
26	An inversion-relaxation approach for sampling stationary points of spin model Hamiltonians. Journal of Chemical Physics, 2014, 140, 194104.	1.2	7
27	On exact minimization of Higgs potentials. European Physical Journal Plus, 2014, 129, 1.	1.2	0
28	Exploring the potential energy landscape over a large parameter-space. Journal of High Energy Physics, 2013, 2013, 1.	1.6	21
29	Finding all flux vacua in an explicit example. Journal of High Energy Physics, 2013, 2013, 1.	1.6	38
30	Phase transitions and gluodynamics in 2-colour matter at high density. European Physical Journal A, 2013, 49, 1.	1.0	40
31	Numerical elimination and moduli space of vacua. Journal of High Energy Physics, 2013, 2013, 1.	1.6	12
32	Enumerating Gribov copies on the lattice. Annals of Physics, 2013, 331, 188-215.	1.0	33
33	Communication: Certifying the potential energy landscape. Journal of Chemical Physics, 2013, 138, 171101.	1.2	16
34	Potential energy landscapes for the 2D XY model: Minima, transition states, and pathways. Journal of Chemical Physics, 2013, 139, 194503.	1.2	13
35	Energy landscape of the finite-size spherical three-spin glass model. Physical Review E, 2013, 87, 052143.	0.8	23
36	Exploring the energy landscape of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml:math>models. Physical Review E, 2013, 87, .	0.8	17

#	Article	IF	Citations
37	Tumbling through a landscape: Evidence of instabilities in high-dimensional moduli spaces. Physical Review D, 2013, 88, .	1.6	35
38	Energy-landscape analysis of the two-dimensional nearest-neighbor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï†</mml:mi><mml:mn>4</mml:mn></mml:msup></mml:math>model. Physical Review E, 2012, 85, 061103.	0.8	33
39	Phase structure of lattice $mathcal{N}=4$ super Yang-Mills. Journal of High Energy Physics, 2012, 2012, 1.	1.6	22
40	Numerical algebraic geometry: a new perspective on gauge and string theories. Journal of High Energy Physics, 2012, 2012, 1.	1.6	35
41	On the sign problem in 2D lattice super Yang-Mills. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
42	Stationary point analysis of the one-dimensional lattice Landau gauge fixing functional, aka random phase XY Hamiltonian. Annals of Physics, 2011, 326, 1425-1440.	1.0	34
43	Finding all the stationary points of a potential-energy landscape via numerical polynomial-homotopy-continuation method. Physical Review E, 2011, 84, 025702.	0.8	62
44	Phase Transitions Detached from Stationary Points of the Energy Landscape. Physical Review Letters, 2011, 107, 160602.	2.9	46
45	Numerical Polynomial Homotopy Continuation Method and String Vacua. Advances in High Energy Physics, 2011, 2011, 1-15.	0.5	35