Peter Gurin

List of Publications by Year
in descending order

33	288	933447 10	940533 16
papers	citations	h-index	g-index

35	35	35	194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exact solutions for the periodic Anderson model in two dimensions: A non-Fermi-liquid state in the normal phase. Physical Review B, 2001, 64, .	3.2	33
2	Structural properties of hard disks in a narrow tube. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P11006.	2.3	25
3	Nematic and smectic ordering in a system of two-dimensional hard zigzag particles. Journal of Chemical Physics, 2009, 131, 184901.	3.0	23
4	Towards understanding the ordering behavior of hard needles: Analytical solutions in one dimension. Physical Review E, 2011, 83, 061710.	2.1	17
5	Ordering of hard rectangles in strong confinement. Journal of Chemical Physics, 2017, 146, 134503.	3.0	17
6	Pair correlation functions of two- and three-dimensional hard-core fluids confined into narrow pores: Exact results from transfer-matrix method. Journal of Chemical Physics, 2013, 139, 244708.	3.0	16
7	Spontaneously bended nematic and antiferroelectric smectic structures of banana-shaped hard particles in two dimensions. Europhysics Letters, 2012, 97, 26004.	2.0	14
8	Study of magnetic relaxation in partially oxidized nanocrystalline iron. European Physical Journal D, 2002, 52, A89-A92.	0.4	13
9	Phase diagram of hard squares in slit confinement. Scientific Reports, 2018, 8, 8886.	3.3	13
10	Ordering, clustering, and wetting of hard rods in extreme confinement. Physical Review Research, 2020, 2, .	3.6	13
11	Ordering transitions of weakly anisotropic hard rods in narrow slitlike pores. Physical Review E, 2018, 97, 012703.	2.1	11
12	Anomalous structural transition of confined hard squares. Physical Review E, 2016, 94, 050603.	2.1	9
13	Three-step melting of hard superdisks in two dimensions. Physical Review E, 2020, 102, 062603.	2.1	9
14	Beyond the single-file fluid limit using transfer matrix method: Exact results for confined parallel hard squares. Journal of Chemical Physics, 2015, 142, 224503.	3.0	8
15	Anisotropy-independent packing of confined hard ellipses. Journal of Molecular Liquids, 2021, 333, 115896.	4.9	8
16	Phase behaviour and correlations of parallel hard squares: from highly confined to bulk systems. Journal of Physics Condensed Matter, 2016, 28, 244002.	1.8	7
17	Demixing and tetratic ordering in some binary mixtures of hard superellipses. Journal of Chemical Physics, 2020, 153, 034501.	3.0	7
18	Enhanced two-dimensional nematic order in slit-like pores. New Journal of Physics, 2021, 23, 063053.	2.9	7

#	Article	IF	Citations
19	Robustness of channel-adapted quantum error correction. Physical Review A, 2009, 80, .	2.5	6
20	Orientational ordering of hard zigzag needles in one dimension. Physical Review E, 2010, 82, 041713.	2.1	6
21	Structural properties of hockey stick-shaped particles in two dimensions. Journal of Molecular Liquids, 2013, 185, 26-31.	4.9	6
22	Critical behavior of hard squares in strong confinement. Physical Review E, 2017, 95, 042610.	2.1	6
23	Tâ‰¥ 0 properties of the infinitely repulsive Hubbard model for an arbitrary number of holes. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 321-339.	0.6	2
24	Extended law of corresponding states: square-well oblates. Journal of Physics Condensed Matter, 2022, 34, 104002.	1.8	2
25	Hubbard model with next-nearest-neighbour interaction terms in higher dimensions: New, exactly solvable cases. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 827-831.	0.6	1
26	Exact results related to the extended Hubbard model with increased interaction range in D > 1 dimensions. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 315-327.	0.6	1
27	Identification of a disordered magnetic phase in pure nanocrystalline iron. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1597-1602.	0.6	1
28	The U = âˆž Hubbard model with few holes: Monte Carlo studies near half-filling at non-zero temperatures. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1621-1627.	0.6	1
29	Positional ordering of hard adsorbate particles in tubular nanopores. Physical Review E, 2018, 97, 052606.	2.1	1
30	Exact phase diagram for extended Hubbard model inD>1 dimensions with next-nearest-neigbor interaction terms. European Physical Journal D, 1996, 46, 2643-2644.	0.4	0
31	Disordered Magnetic Phase in Partially Oxidized Bulk Nanocrystalline Iron. European Physical Journal D, 2002, 52, 151-154.	0.4	0
32	Magnetic Properties of the Infinitely Repulsive Hubbard Model Near Half Filling. European Physical Journal D, 2002, 52, 119-122.	0.4	0
33	The U = âˆž Hubbard model with few holes: Monte Carlo studies near half-filling at non-zero temperatures. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1621-1627.	0.6	0