

Federico RomÃ¡j

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Multisite Occupancy Adsorption: A Comparative Study of New Different Analytical Approaches. Langmuir, 2003, 19, 6770-6777.	1.6	38
2	Configurational entropy for adsorbed linear species (k-mers). Journal of Chemical Physics, 2001, 114, 10932-10937.	1.2	37
3	Configurational Entropy ink-mer Adsorption. Langmuir, 2000, 16, 9406-9409.	1.6	35
4	Fractional Statistical Theory of Adsorption of Polyatomics. Physical Review Letters, 2004, 93, 186101.	2.9	33
5	Quasi-chemical approximation for polyatomics: Statistical thermodynamics of adsorption. Surface Science, 2006, 600, 2011-2025.	0.8	27
6	Entropy-driven phase transition in a system of long rods on a square lattice. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P03013.	0.9	25
7	Multisite-Occupancy Adsorption and Surface Diffusion of Linear Adsorbates in Low Dimensions: A Rigorous Results for a Lattice Gas Model. Langmuir, 2000, 16, 5100-5105.	1.6	22
8	The ground state energy of the Edwards-Anderson spin glass model with a parallel tempering Monte Carlo algorithm. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2821-2838.	1.2	22
9	Statistical Thermodynamics Models for Polyatomic Adsorbates: Application to Adsorption of n-Paraffins in 5A Zeolite. Langmuir, 2005, 21, 2454-2459.	1.6	21
10	Semiempirical Model for Adsorption of Polyatomics. Langmuir, 2006, 22, 3192-3197.	1.6	20
11	Multilayer Adsorption with Multisite Occupancy: An Improved Isotherm for Surface Characterization. Langmuir, 2002, 18, 2130-2134.	1.6	19
12	ADSORPTION OF POLYATOMICS: THEORETICAL APPROACHES IN MODEL SYSTEMS AND APPLICATIONS. International Journal of Modern Physics B, 2006, 20, 4709-4778.	1.0	18
13	Numerical integration of the stochastic Landau-Lifshitz-Gilbert equation in generic time-discretization schemes. Physical Review E, 2014, 90, 023203.	0.8	18
14	Ground-State Entropy of $\pm J$ Ising Lattices by Monte Carlo Simulations. Journal of Statistical Physics, 2004, 114, 1325-1341.	0.5	13
15	A new theoretical approach to multilayer adsorption of polyatomics. Surface Science, 2005, 583, 213-228.	0.8	13
16	Application of the Fractional Statistical Theory of Adsorption (FSTA) to Adsorption of Linear and Flexible k-mers on Two-Dimensional Surfaces. Industrial & Engineering Chemistry Research, 2006, 45, 2046-2053.	1.8	13
17	Temperature dependence of scaling laws in adsorption on bivariate surfaces. Physical Chemistry Chemical Physics, 2003, 5, 3694-3699.	1.3	11
18	Effect of the ground-state structure on order parameters in $\pm J$ Ising lattices. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 454-460.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Surface Area Measurements with Linear Adsorbates: An Experimental Comparison of Different Theoretical Approaches. <i>Langmuir</i> , 2009, 25, 9227-9231.	1.6	8
20	Generalized statistical description of adsorption of polyatomics. <i>Applied Surface Science</i> , 2005, 252, 505-511.	3.1	7
21	Novel order parameter to describe the critical behavior of Ising spin glass models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 363, 327-333.	1.2	7
22	A simple statistical mechanical approach for studying multilayer adsorption of interacting rigid polyatomics. <i>Surface Science</i> , 2009, 603, 980-991.	0.8	7
23	A simple model for studying multilayer adsorption of noninteracting polyatomic species on homogeneous and heterogeneous surfaces. <i>Journal of Chemical Physics</i> , 2009, 130, 194711.	1.2	6
24	Magnetic hysteresis behavior of granular manganite $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{La} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.67 \langle \text{mml:mn} \rangle / \text{nanotubes}$. <i>Physical Review B</i> , 2020, 101, .		
25	Configurational entropy of adsorbed particles on two-dimensional heterogeneous surfaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 328, 513-524.	1.2	5
26	Ground-state energy and entropy of the two-dimensional Edwards-Anderson spin-glass model with different bond distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 937-947.	1.2	4
27	Surface phase transitions in one-dimensional channels arranged in a triangular cross-sectional structure: Theory and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2006, 125, 214705.	1.2	3
28	Nonequilibrium dynamics of the three-dimensional Edwards-Anderson spin-glass model with Gaussian couplings: strong heterogeneities and the backbone picture. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	3
29	Thermodynamic integration method applied to Ising lattices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 348, 216-222.	1.2	1
30	CONFIGURATIONAL ENTROPY IN GENERALIZED LATTICE-GAS MODELS. <i>International Journal of Modern Physics B</i> , 2009, 23, 4589-4627.	1.0	1
31	Statistical Thermodynamics and Surface Phase Transitions of Interacting Particles Adsorbed on One-Dimensional Channels Arranged in a Triangular Cross-Sectional Structure. <i>Solid State Phenomena</i> , 2009, 150, 73-100.	0.3	1
32	Critical behavior and out-of-equilibrium dynamics of a two-dimensional Ising model with dynamic couplings. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	0
33	Changing the universality class of the three-dimensional Edwards-Anderson spin-glass model by selective bond dilution. <i>Physical Review B</i> , 2021, 103, .	1.1	0