

# Marc Donohue

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

394  
citations

840585

11  
h-index

794469

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Adsorption Isotherms: Lattice Theory Predictions, Classification of Isotherms for Gas-Solid Equilibria, and Similarities in Gas and Liquid Adsorption Behavior. <i>Journal of Colloid and Interface Science</i> , 1998, 200, 273-290.	5.0	110
2	Lattice density functional theory of molecular diffusion. <i>Journal of Chemical Physics</i> , 2004, 121, 426.	1.2	50
3	Determining Surface Areas from Linear Adsorption Isotherms at Supercritical Conditions. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 392-397.	5.0	34
4	Adsorption Compression: An Important New Aspect of Adsorption Behavior and Capillarity. <i>Langmuir</i> , 2003, 19, 2722-2735.	1.6	28
5	Bridging adsorption analytics and catalytic kinetics for metal-exchanged zeolites. <i>Nature Catalysis</i> , 2021, 4, 144-156.	16.1	27
6	Diffusion Equation for Interacting Particles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16062-16069.	1.2	22
7	A lattice model for fluids with directional interactions. <i>Journal of Chemical Physics</i> , 1999, 111, 2050-2059.	1.2	20
8	Modeling fluid diffusion using the lattice density functional theory approach: counterdiffusion in an external field. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1663.	1.3	20
9	Self-Assembly of T-Structures in Molecular Fluids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2081-2089.	1.2	17
10	Theory of Multilayer Adsorption with Correct Critical Behavior. <i>Langmuir</i> , 2003, 19, 3822-3829.	1.6	14
11	A simple model for ordering in adsorbed layers. <i>Molecular Physics</i> , 2002, 100, 2121-2137.	0.8	11
12	Adsorption Behavior of Repulsive Molecules. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10189-10193.	1.2	9
13	Limitations and generalizations of the classical phenomenological model for diffusion in fluids. <i>Molecular Physics</i> , 2007, 105, 1085-1093.	0.8	9
14	Critical point corrections for lattice systems. <i>Journal of Chemical Physics</i> , 2003, 119, 478-483.	1.2	6
15	Critical Point Corrections for Two- and Three-Dimensional Systems. <i>Langmuir</i> , 2003, 19, 2162-2168.	1.6	6
16	Thermodynamics of Systems with Different Geometric Constraints and Intermolecular Correlations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12530-12535.	1.2	4
17	Equilibrium Limit of Diffusion Equation for Interacting Particles: Are Bifurcations and Multiplicity of Correlation Functions an Artifact or Real?. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9530-9538.	1.2	3
18	Configurational probabilities for symmetric dimers on a lattice: An analytical approximation with exact limits at low and high densities. <i>Journal of Chemical Physics</i> , 2007, 127, 134903.	1.2	2

#	ARTICLE	IF	CITATIONS
19	Modification of classical approximations for diffusion in fluids with density gradients. Physical Chemistry Chemical Physics, 2010, 12, 9043.	1.3	2
20	Configurational probabilities for monomers, dimers and trimers in fluids. Physical Chemistry Chemical Physics, 2008, 10, 5840.	1.3	0