

# George K Papadopoulos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/447716/publications.pdf>

Version: 2024-02-01

40  
papers

1,328  
citations

430874

18  
h-index

345221

36  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Permeation Properties of CO <sub>2</sub> and N <sub>2</sub> through Silicalite via Molecular Simulations. <i>Journal of Physical Chemistry B</i> , 2001, 105, 777-788.	2.6	182
2	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structure-property relationships. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11859-11869.	10.3	166
3	Determination of Micropore Size Distribution from Grand Canonical Monte Carlo Simulations and Experimental CO <sub>2</sub> Isotherm Data. <i>Langmuir</i> , 1997, 13, 2795-2802.	3.5	108
4	Transport Diffusivity of N <sub>2</sub> and CO <sub>2</sub> in Silicalite: A Coherent Quasielastic Neutron Scattering Measurements and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12748-12756.	2.6	104
5	On the Impact of Sorbent Mobility on the Sorbed Phase Equilibria and Dynamics: A Study of Methane and Carbon Dioxide within the Zeolite Imidazolate Framework-8. <i>Journal of Physical Chemistry C</i> , 2012, 116, 201-207.	3.1	88
6	Diffusion in Fluid Catalytic Cracking Catalysts on Various Displacement Scales and Its Role in Catalytic Performance. <i>Chemistry of Materials</i> , 2005, 17, 2466-2474.	6.7	74
7	Atomistic Simulation Studies on the Dynamics and Thermodynamics of Nonpolar Molecules within the Zeolite Imidazolate Framework-8. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2493-2503.	2.6	57
8	The Structure of Adsorbed CO <sub>2</sub> in Slitlike Micropores at Low and High Temperature and the Resulting Micropore Size Distribution Based on GCMC Simulations. <i>Journal of Colloid and Interface Science</i> , 2000, 224, 272-290.	9.4	43
9	Sorption Thermodynamics of CO <sub>2</sub> , CH <sub>4</sub> , and Their Mixtures in the ITQ-1 Zeolite as Revealed by Molecular Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22742-22753.	2.6	39
10	Probing the hydrogen equilibrium and kinetics in zeolite imidazolate frameworks via molecular dynamics and quasi-elastic neutron scattering experiments. <i>Journal of Chemical Physics</i> , 2013, 138, 034706.	3.0	38
11	Mesoscopic simulations of the diffusivity of ethane in beds of NaX zeolite crystals: Comparison with pulsed field gradient NMR measurements. <i>Journal of Chemical Physics</i> , 2007, 126, 094702.	3.0	28
12	Micropore size distributions from CO <sub>2</sub> using grand canonical Monte Carlo at ambient temperatures: cylindrical versus slit pore geometries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 241, 127-135.	4.7	25
13	Molecular Dynamics Phenomena of Water in the Metalorganic Framework MIL-100(Al), as Revealed by Pulsed Field Gradient NMR and Atomistic Simulation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18065-18074.	3.1	25
14	Parallel tempering method for reconstructing isotropic and anisotropic porous media. <i>Journal of Chemical Physics</i> , 2002, 117, 5876-5884.	3.0	24
15	Characterization of nanoporous carbons by combining CO <sub>2</sub> and H <sub>2</sub> sorption data with the Monte Carlo simulations. <i>Applied Surface Science</i> , 2007, 253, 5715-5720.	6.1	23
16	Combined Atomistic Simulation and Quasielastic Neutron Scattering Study of the Low-Temperature Dynamics of Hydrogen and Deuterium Confined in NaX Zeolite. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11708-11715.	2.6	23
17	Influence of orientational ordering transition on diffusion of carbon dioxide in carbon nanopores. <i>Journal of Chemical Physics</i> , 2001, 114, 8139-8144.	3.0	22
18	On the computation of long-range interactions in fluids under confinement: Application to pore systems with various types of spatial periodicity. <i>Journal of Chemical Physics</i> , 2007, 127, 164723.	3.0	22

#	ARTICLE	IF	CITATIONS
19	Atomistic Modeling of Water Thermodynamics and Kinetics within MIL-100(Fe). <i>Journal of Physical Chemistry C</i> , 2015, 119, 20074-20084.	3.1	21
20	Dimensionality reduction of free energy profiles of benzene in silicalite-1: calculation of diffusion coefficients using transition state theory. <i>Molecular Simulation</i> , 2014, 40, 80-100.	2.0	19
21	Simulation studies of methane, carbon dioxide, hydrogen and deuterium in ITQ-1 and NaX zeolites. <i>Molecular Simulation</i> , 2009, 35, 79-89.	2.0	18
22	Molecular Dynamics of Carbon Dioxide, Methane and Their Mixtures in a Zeolite Possessing Two Independent Pore Networks as Revealed by Computer Simulations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13761-13767.	2.6	18
23	Simulation Study of Sorption of CO <sub>2</sub> and N <sub>2</sub> with Application to the Characterization of Carbon Adsorbents. <i>Molecular Simulation</i> , 2001, 27, 441-456.	2.0	17
24	Intrinsic D <sub>2</sub> /H <sub>2</sub> Selectivity of NaX Zeolite: Interplay between Adsorption and Kinetic Factors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15373-15380.	3.1	16
25	Unified formulation of isothermal adsorbate flow in mesoporous media over the full vapor pressure range. <i>Journal of Membrane Science</i> , 1995, 101, 127-133.	8.2	15
26	Pulsed-field gradient nuclear magnetic resonance study of transport properties of fluid catalytic cracking catalysts. <i>Magnetic Resonance Imaging</i> , 2005, 23, 233-237.	1.8	14
27	Molecular Dynamics Studies of Diffusion in Model Cylindrical Pores at Very Low Densities. <i>Molecular Simulation</i> , 1999, 22, 237-256.	2.0	12
28	Diffusivity of CH <sub>4</sub> in Model Silica Nanopores: Molecular Dynamics and Quasichemical Mean Field Theory. <i>Molecular Simulation</i> , 2005, 31, 57-66.	2.0	11
29	Constant Pressure Path Integral Gibbs Ensemble Monte Carlo Method. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2922-2929.	5.3	11
30	Wasseradsorption und -diffusion in SAPO-34 für die adsorptive Wärmetransformation. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 372-378.	0.8	10
31	Experimental verification of a proposed unified formulation of adsorbate transport in mesoporous media over the full vapour pressure range. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3217.	1.7	9
32	A Monte Carlo study on the structure of carbon dioxide adsorbed in microporous carbons. <i>Studies in Surface Science and Catalysis</i> , 2002, 144, 545-552.	1.5	8
33	Model Study of the Effect of Pore Structure and Condensation on Multilayer Adsorbate Transport in Porous Media. <i>Langmuir</i> , 2007, 23, 12932-12936.	3.5	6
34	A second-order Markov process for modeling diffusive motion through spatial discretization. <i>Journal of Chemical Physics</i> , 2008, 128, 024504.	3.0	6
35	Diffusion via space discretization method to study the concentration dependence of self-diffusivity under confinement. <i>Journal of Chemical Physics</i> , 2010, 132, 134108.	3.0	6
36	Modeling the Hydration-Induced Structural Transitions of the SAPO-34 Zeolite and Their Impact on the Water's Sorbed Phase Equilibrium and Dynamics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11480-11489.	3.1	4

#	ARTICLE	IF	CITATIONS
37	Binding Dynamics of siRNA with Selected Lipopeptides: A Computer-Aided Study of the Effect of Lipopeptides's Functional Groups and Stereoisomerism. Journal of Chemical Theory and Computation, 2020, 16, 3842-3855.	5.3	4
38	Identification of hydrated phases in ALPO4-5, and explanation of their effect on the water sorption and dynamics. Microporous and Mesoporous Materials, 2021, , 111501.	4.4	4
39	Atomistic simulation of sorption in model pores with reduced spatial periodicity. Applied Surface Science, 2007, 253, 5606-5609.	6.1	3
40	A Localized Enantioselective Catalytic Site on Short DNA Sequences and Their Amphiphiles. JACS Au, 2022, 2, 483-491.	7.9	3