

Gennady Gor

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1175383/publications.pdf>

Version: 2024-02-01

37
papers

817
citations

567144

15
h-index

501076

28
g-index

38
all docs

38
docs citations

38
times ranked

701
citing authors

#	ARTICLE	IF	CITATIONS
1	Models of adsorption-induced deformation: ordered materials and beyond. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 063002.	0.7	9
2	Molecular Simulation of Benzene Adsorption in Graphitic and Amorphous Carbon Slit Pores. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1765-1778.	1.0	1
3	Solvation pressure in spherical mesopores: Macroscopic theory and molecular simulations. <i>AIChE Journal</i> , 2021, 67, e16542.	1.8	7
4	Kinetic model for competitive condensation of vapor between concave and convex surfaces in a soot aggregate. <i>Aerosol Science and Technology</i> , 2021, 55, 302-315.	1.5	4
5	The effect of interconnections on gas adsorption in materials with spherical mesopores: A Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 2021, 154, 114706.	1.2	3
6	Adsorption from binary liquid solutions into mesoporous silica: a capacitance isotherm on 5CB nematogen/cyclohexane mixtures. <i>Molecular Physics</i> , 2021, 119, .	0.8	1
7	Adsorption-induced deformation of hierarchical organised carbon materials with ordered, non-convex mesoporosity. <i>Molecular Physics</i> , 2021, 119, .	0.8	5
8	Force Fields for Molecular Modeling of Sarin and its Simulants: DMMP and DIMP. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4086-4098.	1.2	18
9	Elastic properties of confined fluids from molecular modeling to ultrasonic experiments on porous solids. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	14
10	Molecular Simulations of Vapor-Liquid Equilibrium of Isocyanates. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12528-12538.	1.2	2
11	Density Functional Theory Model for Adsorption-Induced Deformation of Mesoporous Materials with Nonconvex Pore Geometry. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20046-20054.	1.5	10
12	Capillary bridge formation between hexagonally ordered carbon nanorods. <i>Adsorption</i> , 2020, 26, 563-578.	1.4	4
13	Compressibility of a Simple Fluid in Cylindrical Confinement: Molecular Simulation and Equation of State Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8393-8402.	1.8	3
14	Compressibility of Supercritical Methane in Nanopores: A Molecular Simulation Study. <i>Energy & Fuels</i> , 2020, 34, 1506-1513.	2.5	10
15	Adsorption-induced deformation of mesoporous materials with corrugated cylindrical pores. <i>Journal of Chemical Physics</i> , 2020, 153, 194703.	1.2	10
16	In Situ Small-Angle Neutron Scattering Investigation of Adsorption-Induced Deformation in Silica with Hierarchical Porosity. <i>Langmuir</i> , 2019, 35, 11590-11600.	1.6	11
17	Pore-Size Distribution of Silica Colloidal Crystals from Nitrogen Adsorption Isotherms. <i>Langmuir</i> , 2019, 35, 14975-14982.	1.6	13
18	Mechanical Characterization of Hierarchical Structured Porous Silica by in Situ Dilatometry Measurements during Gas Adsorption. <i>Langmuir</i> , 2019, 35, 2948-2956.	1.6	12

#	ARTICLE	IF	CITATIONS
19	Modeling elastic properties of Vycor glass saturated with liquid and solid adsorbates. <i>Adsorption</i> , 2019, 25, 973-982.	1.4	5
20	Porous Structure of Silica Colloidal Crystals. <i>Langmuir</i> , 2019, 35, 2230-2235.	1.6	15
21	Effect of pore geometry on the compressibility of a confined simple fluid. <i>Journal of Chemical Physics</i> , 2018, 148, 054503.	1.2	23
22	Gassmann Theory Applies to Nanoporous Media. <i>Geophysical Research Letters</i> , 2018, 45, 146-155.	1.5	27
23	Molecular Simulations Shed Light on Potential Uses of Ultrasound in Nitrogen Adsorption Experiments. <i>Langmuir</i> , 2018, 34, 15650-15657.	1.6	12
24	Single Parameter for Predicting the Morphology of Atmospheric Black Carbon. <i>Environmental Science & Technology</i> , 2018, 52, 14169-14179.	4.6	19
25	Sorption-Induced Deformation and Elastic Weakening of Bentheim Sandstone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8589-8601.	1.4	29
26	Elastocapillarity in nanopores: Sorption strain from the actions of surface tension and surface stress. <i>Physical Review Materials</i> , 2018, 2, .	0.9	18
27	Adsorption-induced deformation of nanoporous materials—A review. <i>Applied Physics Reviews</i> , 2017, 4, .	5.5	189
28	Adsorption-Induced Deformation of Hierarchically Structured Mesoporous Silica—Effect of Pore-Level Anisotropy. <i>Langmuir</i> , 2017, 33, 5592-5602.	1.6	47
29	Bulk Modulus of Not-So-Bulk Fluid. , 2017, , .		4
30	Modulus—pressure equation for confined fluids. <i>Journal of Chemical Physics</i> , 2016, 145, 164505.	1.2	26
31	Adsorption-Induced Surface Stresses of the Water/Quartz Interface: Ab Initio Molecular Dynamics Study. <i>Langmuir</i> , 2016, 32, 5259-5266.	1.6	18
32	Deformation of Microporous Carbons during N ₂ , Ar, and CO ₂ Adsorption: Insight from the Density Functional Theory. <i>Langmuir</i> , 2016, 32, 8265-8274.	1.6	49
33	Revisiting Bangham's law of adsorption-induced deformation: changes of surface energy and surface stress. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9788-9798.	1.3	50
34	Elastic response of mesoporous silicon to capillary pressures in the pores. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	64
35	Relation between pore size and the compressibility of a confined fluid. <i>Journal of Chemical Physics</i> , 2015, 143, 194506.	1.2	38
36	Non-covalent interactions of nitrous oxide with aromatic compounds: Spectroscopic and computational evidence for the formation of 1:1 complexes. <i>Journal of Chemical Physics</i> , 2014, 140, 144304.	1.2	10

#	ARTICLE	IF	CITATIONS
37	Adsorption Stress Changes the Elasticity of Liquid Argon Confined in a Nanopore. Langmuir, 2014, 30, 13564-13569.	1.6	35