Gennady Gor

List of Publications by Year
in descending order

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37	817	567281	501196
papers	citations	15	28
		h-index	g-index

38	38	38	701
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption-induced deformation of nanoporous materialsâ€"A review. Applied Physics Reviews, 2017, 4, .	11.3	189
2	Elastic response of mesoporous silicon to capillary pressures in the pores. Applied Physics Letters, 2015, 106, .	3.3	64
3	Revisiting Bangham's law of adsorption-induced deformation: changes of surface energy and surface stress. Physical Chemistry Chemical Physics, 2016, 18, 9788-9798.	2.8	50
4	Deformation of Microporous Carbons during N₂, Ar, and CO₂ Adsorption: Insight from the Density Functional Theory. Langmuir, 2016, 32, 8265-8274.	3.5	49
5	Adsorption-Induced Deformation of Hierarchically Structured Mesoporous Silicaâ€"Effect of Pore-Level Anisotropy. Langmuir, 2017, 33, 5592-5602.	3.5	47
6	Relation between pore size and the compressibility of a confined fluid. Journal of Chemical Physics, 2015, 143, 194506.	3.0	38
7	Adsorption Stress Changes the Elasticity of Liquid Argon Confined in a Nanopore. Langmuir, 2014, 30, 13564-13569.	3.5	35
8	Sorptionâ€Induced Deformation and Elastic Weakening of Bentheim Sandstone. Journal of Geophysical Research: Solid Earth, 2018, 123, 8589-8601.	3.4	29
9	Gassmann Theory Applies to Nanoporous Media. Geophysical Research Letters, 2018, 45, 146-155.	4.0	27
10	Modulusâ€"pressure equation for confined fluids. Journal of Chemical Physics, 2016, 145, 164505.	3.0	26
11	Effect of pore geometry on the compressibility of a confined simple fluid. Journal of Chemical Physics, 2018, 148, 054503.	3.0	23
12	Single Parameter for Predicting the Morphology of Atmospheric Black Carbon. Environmental Science & Technology, 2018, 52, 14169-14179.	10.0	19
13	Adsorption-Induced Surface Stresses of the Water/Quartz Interface: Ab Initio Molecular Dynamics Study. Langmuir, 2016, 32, 5259-5266.	3.5	18
14	Force Fields for Molecular Modeling of Sarin and its Simulants: DMMP and DIMP. Journal of Physical Chemistry B, 2021, 125, 4086-4098.	2.6	18
15	Elastocapillarity in nanopores: Sorption strain from the actions of surface tension and surface stress. Physical Review Materials, 2018, 2, .	2.4	18
16	Porous Structure of Silica Colloidal Crystals. Langmuir, 2019, 35, 2230-2235.	3.5	15
17	Elastic properties of confined fluids from molecular modeling to ultrasonic experiments on porous solids. Applied Physics Reviews, 2021, 8, .	11.3	14
18	Pore-Size Distribution of Silica Colloidal Crystals from Nitrogen Adsorption Isotherms. Langmuir, 2019, 35, 14975-14982.	3.5	13

#	Article	IF	Citations
19	Molecular Simulations Shed Light on Potential Uses of Ultrasound in Nitrogen Adsorption Experiments. Langmuir, 2018, 34, 15650-15657.	3.5	12
20	Mechanical Characterization of Hierarchical Structured Porous Silica by in Situ Dilatometry Measurements during Gas Adsorption. Langmuir, 2019, 35, 2948-2956.	3.5	12
21	In Situ Small-Angle Neutron Scattering Investigation of Adsorption-Induced Deformation in Silica with Hierarchical Porosity. Langmuir, 2019, 35, 11590-11600.	3.5	11
22	Non-covalent interactions of nitrous oxide with aromatic compounds: Spectroscopic and computational evidence for the formation of 1:1 complexes. Journal of Chemical Physics, 2014, 140, 144304.	3.0	10
23	Density Functional Theory Model for Adsorption-Induced Deformation of Mesoporous Materials with Nonconvex Pore Geometry. Journal of Physical Chemistry C, 2020, 124, 20046-20054.	3.1	10
24	Compressibility of Supercritical Methane in Nanopores: A Molecular Simulation Study. Energy & Fuels, 2020, 34, 1506-1513.	5.1	10
25	Adsorption-induced deformation of mesoporous materials with corrugated cylindrical pores. Journal of Chemical Physics, 2020, 153, 194703.	3.0	10
26	Models of adsorption-induced deformation: ordered materials and beyond. Journal of Physics Condensed Matter, 2022, 34, 063002.	1.8	9
27	Solvation pressure in spherical mesopores: Macroscopic theory and molecular simulations. AICHE Journal, 2021, 67, e16542.	3.6	7
28	Modeling elastic properties of Vycor glass saturated with liquid and solid adsorbates. Adsorption, 2019, 25, 973-982.	3.0	5
29	Adsorption-induced deformation of hierarchical organised carbon materials with ordered, non-convex mesoporosity. Molecular Physics, 2021, 119, .	1.7	5
30	Bulk Modulus of Not-So-Bulk Fluid. , 2017, , .		4
31	Capillary bridge formation between hexagonally ordered carbon nanorods. Adsorption, 2020, 26, 563-578.	3.0	4
32	Kinetic model for competitive condensation of vapor between concave and convex surfaces in a soot aggregate. Aerosol Science and Technology, 2021, 55, 302-315.	3.1	4
33	Compressibility of a Simple Fluid in Cylindrical Confinement: Molecular Simulation and Equation of State Modeling. Industrial & Engineering Chemistry Research, 2020, 59, 8393-8402.	3.7	3
34	The effect of interconnections on gas adsorption in materials with spherical mesopores: A Monte Carlo simulation study. Journal of Chemical Physics, 2021, 154, 114706.	3.0	3
35	Molecular Simulations of Vaporâ€“Liquid Equilibrium of Isocyanates. Journal of Physical Chemistry B, 2021, 125, 12528-12538.	2.6	2
36	Adsorption from binary liquid solutions into mesoporous silica: a capacitance isotherm on 5CB nematogen/cyclohexane mixtures. Molecular Physics, 2021, 119, .	1.7	1

#	Article	IF	Citations
37	Molecular Simulation of Benzene Adsorption in Graphitic and Amorphous Carbon Slit Pores. Journal of Chemical & Engineering Data, 2022, 67, 1765-1778.	1.9	1