Mykhaylo Petryk

List of Publications by Year
in descending order

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23	158	1307594	1199594
papers	citations	7 h-index	12 g-index

23	23	23	50
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of solving algorithms for a mathematical model of filtration-diffusion transfer in the medium of spherical moisture-saturated microporous particles. Scientific Journal of the Ternopil National Technical University, 2021, 1, 15-21.	0.3	0
2	Theory of the shear acoustic phonons spectrum and their interaction with electrons due to the piezoelectric potential in AlN/GaN nanostructures of plane symmetry. Low Temperature Physics, 2021, 47, 141-154.	0.6	3
3	High-Performance Supercomputer Technologies of Simulation and Identification of Nanoporous Systems with Feedback for n-Component Competitive Adsorption. Cybernetics and Systems Analysis, 2021, 57, 316-328.	0.7	1
4	Software Algorithms for a Mathematical Model of Filtration-Diffusion Mass Transfer in the Medium of Microporous Particles. , 2021, , .		0
5	Mathematical Model of the Capacitor Based on Zeolite Material. , 2021, , .		0
6	High-Performance Supercomputer Technologies of Simulation of Nanoporous Feedback Systems for Adsorption Gas Purification. Cybernetics and Systems Analysis, 2020, 56, 835-847.	0.7	7
7	Competitive Adsorption and Diffusion of Gases in a Microporous Solid. , 2020, , .		4
8	High-performance Analyzing Methods for Tremorobjects Abnormal States of Neuro-biosystems with Cognitive Feedbacks. , 2020, , .		0
9	Spectrum and normalized modes of acoustic phonons in multilayer nitride-based nanostructure. European Physical Journal B, 2020, 93, 1.	1.5	7
10	Hybrid Artificial Intelligence Systems for Complex Neural Network Analysis of Abnormal Neurological Movements with Multiple Cognitive-nodes Signal. , 2020, , .		0
11	Modern Hardware and Software Solution for Identification of Abnormal Neurological Movements of Patients with Essential Tremor. , 2019, , .		6
12	Mathematical Modeling of Hydrocarbons Adsorption in Nanoporous Catalyst Media using Nonlinear Langmuirâ€™s Isotherm using Activation Energy. , 2019, , .		3
13	Experimental and computer simulation studies of dehydration on microporous adsorbent of natural gas used as motor fuel. Fuel, 2019, 239, 1324-1330.	6.4	28
14	Shear Acoustic Phonons in Multilayer Arsenide Semiconductor Nanostructures. Journal of Nano- and Electronic Physics, 2019, 11, 01019-1-01019-6.	0.5	0
15	Influence of the Space Charge on Tunneling of Electrons and Their Conductivity by the Resonance Tunneling Structures in the Constant Electric Field. Journal of Nano- and Electronic Physics, 2017, 9, 03030-1-03030-8.	0.5	1
16	Competitive Diffusion of Gases in a Zeolite Bed: NMR and Slice Selection Procedure, Modeling, and Parameter Identification. Journal of Physical Chemistry C, 2015, 119, 26519-26525.	3.1	19
17	Highly Efficient Methods of the Identification of Competitive Diffusion Parameters in Inhomogeneous Media of Nanoporous Particles. Cybernetics and Systems Analysis, 2015, 51, 529-546.	0.7	8
18	Numerical and analytical modeling of solidâ€“liquid expression from soft plant materials. AICHE Journal, 2013, 59, 4762-4771.	3.6	20

#	Article	IF	Citations
19	Competitive diffusion of gases in a zeolite using proton NMR and a slice selection procedure. Catalysis Today, 2012, 187, 104-107.	4.4	14
20	Identifying kinetic parameters of mass transfer in components of multicomponent heterogeneous nanoporous media of a competitive diffusion system. Cybernetics and Systems Analysis, 2011, 47, 705-723.	0.7	6
21	Modeling of gas transport in a microporous solid using a slice selection procedure: Application to the diffusion of benzene in ZSM5. Catalysis Today, 2008, 139, 234-240.	4.4	17
22	Liquid flowing from porous particles during the pressing of biological materials. Computers and Chemical Engineering, 2007, 31, 1336-1345.	3.8	12
23	Mathematical modeling of mass transfer in symmetric heterogeneous and nanoporous media with a system of n-interface interactions. Cybernetics and Systems Analysis, 2007, 43, 94-111.	0.7	2