Sergei A Solovev

List of Publications by Year
in descending order

55	297	840776 11	1058476 14
papers	citations	h-index	g-index

56	56	56	30
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CFD simulation of the ethylbenzene dehydrogenation reaction in the fixed bed reactor with a cylindrical catalyst of various sizes. Chemical Product and Process Modeling, 2022, 17, 583-602.	0.9	9
2	Study of the Influence of Porous Structure on the Efficiency of Emulsion Separation in Wastewater Purification on Transport. Transportation Research Procedia, 2022, 61, 402-409.	1.5	1
3	Numerical Simulation of Heat and Mass Transfer in an Open-Cell Foam Catalyst on Example of the Acetylene Hydrogenation Reaction. ChemEngineering, 2022, 6, 11.	2.4	13
4	Numerical investigation of the thermal conductivity of a composite heat-insulating material with microgranules. Power Engineering Research Equipment Technology, 2022, 24, 86-98.	0.4	3
5	Life Cycle Saving Analysis of an Earth-Coupled Building without and with Roof Evaporative Cooling for Energy Efficient Potato Storage Application. Energies, 2022, 15, 4076.	3.1	6
6	Determination of the effect of the open cell foam material geometry on the value of energy efficiency. Power Engineering Research Equipment Technology, 2022, 24, 55-69.	0.4	1
7	Estimation of energy efficiency factor for models of porous automotive heat exchangers. Transportation Research Procedia, 2022, 63, 1081-1088.	1.5	6
8	Study of the heat transfer efficiency of spring elements for use in transport. Transportation Research Procedia, 2022, 63, 1007-1014.	1.5	1
9	Study of heat transfer in a heat exchanger with porous granules for use in transport. Transportation Research Procedia, 2022, 63, 1205-1210.	1.5	2
10	Study of the influence of the porosity of the fibrous material used in transport on the value of energy efficiency. Transportation Research Procedia, 2022, 63, 1252-1258.	1.5	0
11	Method of the Wastewater Treatment in Transport Using a Porous Material. Transportation Research Procedia, 2021, 54, 712-718.	1.5	3
12	Hydrodynamics and Convective Heat Transfer in Open Cell Foam with Micropores. Transportation Research Procedia, 2021, 54, 64-68.	1.5	3
13	Evaluation of the effective porosity of an open cell foam material for using in heat and mass transfer numerical simulations. E3S Web of Conferences, 2021, 258, 11010.	0.5	12
14	Numerical Simulation of the Aerosol Particle Motion in Granular Filters with Solid and Porous Granules. Processes, 2021, 9, 268.	2.8	4
15	Mathematical Modelling of Heat Transfer in Open Cell Foam of Different Porosities. Advances in Intelligent Systems and Computing, 2021, , 371-382.	0.6	18
16	Numerical Investigation of the Catalyst Granule Shapes Influence on Dehydrogenation Reaction. Advances in Intelligent Systems and Computing, 2021, , 383-390.	0.6	4
17	Determination of the effective porosity of a single filter fiber. Journal of Physics: Conference Series, 2021, 2094, 022075.	0.4	1
18	Analysis of pre-filter models using numerical simulation. IOP Conference Series: Materials Science and Engineering, 2020, 862, 062103.	0.6	4

#	Article	IF	Citations
19	Determination of the particle deposition efficiency value in a granular and open cell foam filter. IOP Conference Series: Materials Science and Engineering, 2020, 709, 033064.	0.6	13
20	Investigation of the gas feeder design for a fluidized bed chemical reactor or combustor. IOP Conference Series: Materials Science and Engineering, 2020, 734, 012204.	0.6	1
21	Numerical simulation and experimental study of the acetylene hydrogenation reaction. IOP Conference Series: Materials Science and Engineering, 2020, 734, 012205.	0.6	7
22	Investigation of hydrodynamics and convection in the porous car heat exchanger. IOP Conference Series: Materials Science and Engineering, 2020, 918, 012169.	0.6	3
23	Mathematical simulation of the reactor for the ethylbenzene to styrene dehydrogenation reaction. Journal of Physics: Conference Series, 2020, 1679, 052094.	0.4	0
24	Improving the efficiency of particle deposition on the filter fiber through its modification. IOP Conference Series: Materials Science and Engineering, 2020, 734, 012181.	0.6	0
25	Numerical simulation of a flow mixer for a radial type chemical reactor. IOP Conference Series: Earth and Environmental Science, 2020, 421, 072017.	0.3	2
26	Numerical simulation of the aerosol particle motion in the model of single- and multi-layer open cell foam filter. AIP Conference Proceedings, 2020, , .	0.4	1
27	Study of the Influence of the Add Ð¾f Micropores on Filtering Characteristics of High Porous Structures. Ecology and Industry of Russia, 2020, 24, 39-43.	0.4	12
28	Investigation of the effect of materialâ€™s cell size with the fixed porosity on the efficiency of aerosol particle deposition. Journal of Physics: Conference Series, 2019, 1158, 042023.	0.4	14
29	Mathematical modeling of isoparaffins dehydrogenation in fluidized bed reactor. IOP Conference Series: Materials Science and Engineering, 2019, 537, 062073.	0.6	4
30	Numerical simulation of aerosol particle aspiration in a passive sampler. IOP Conference Series: Earth and Environmental Science, 2019, 315, 062017.	0.3	0
31	Determination of Effective Diameter of Solid Particles for the Eulerianâ€“Eulerian Modelling Approach of Fluidized Bed.. Journal of Physics: Conference Series, 2019, 1210, 012133.	0.4	4
32	Numerical simulation of gas flow in porous structures of various geometries. Journal of Physics: Conference Series, 2019, 1210, 012134.	0.4	4
33	Investigation of the aerosol particle deposition formation due to the capture of the filter fiber. IOP Conference Series: Earth and Environmental Science, 2019, 288, 012120.	0.3	1
34	Investigation of the influence of fine particles on the discrete phase density in the numerical modelling of a fluidized bed. Journal of Physics: Conference Series, 2019, 1158, 042022.	0.4	5
35	Numerical simulation of the isoparaffins dehydrogenation in a bidisperse fluidized bed. IOP Conference Series: Materials Science and Engineering, 2019, 618, 012095.	0.6	0
36	Determination of the effective thickness of an open cell foam filter using numerical simulation. IOP Conference Series: Materials Science and Engineering, 2019, 560, 012045.	0.6	4

#	Article	IF	Citations
37	Numerical investigation of the granule size effect on the reaction product yield in a catalyst fixed bed. IOP Conference Series: Materials Science and Engineering, 2019, 618, 012096.	0.6	3
38	Software platform for analysis of data in the field of waste management. E3S Web of Conferences, 2019, 124, 05041.	0.5	0
39	Evaluation of the efficiency of prefilter models using numerical simulation. Journal of Physics: Conference Series, 2019, 1399, 022059.	0.4	9
40	The effect of fine particle influence on numerical simulation of bidisperse fluidized bed. IOP Conference Series: Earth and Environmental Science, 2019, 337, 012061.	0.3	0
41	Influence of internal grids on particle motion in the fluidized bed reactor. IOP Conference Series: Materials Science and Engineering, 2019, 560, 012092.	0.6	4
42	Numerical investigation of the ethylbenzene dehydrogenation reaction in a fixed bed reactor with catalyst granules of various sizes. Journal of Physics: Conference Series, 2019, 1399, 055022.	0.4	8
43	Investigation of internal elements impaction on particles circulation in a fluidized bed reactor. Journal of Physics: Conference Series, 2018, 944, 012114.	0.4	7
44	Numerical Simulation of the Motion of Aerosol Particles in Open Cell Foam Materials. Russian Journal of Physical Chemistry A, 2018, 92, 603-606.	0.6	22
45	CFD modeling a fluidized bed large scale reactor with various internal elements near the heated particles feeder. Chemical Engineering Research and Design, 2018, 138, 212-228.	5.6	18
46	Investigation of the influence of the open cell foam models geometry on hydrodynamic calculation. Journal of Physics: Conference Series, 2018, 944, 012113.	0.4	15
47	Effect of the design of a feedstock injection device in a fluidized-bed reactor on the efficiency of the reaction using the dehydrogenation of iso-paraffins in a fluidized chromiaâ€“alumina catalyst bed as an example. Catalysis in Industry, 2016, 8, 48-55.	0.7	13
48	Investigation of the influence of heated catalyst feeding system on the intensity of temperature-dependent chemical reaction in the fluidized bed apparatus. IOP Conference Series: Materials Science and Engineering, 2016, 158, 012086.	0.6	11
49	NUMERICAL SIMULATION OF HEAT AND MASS TRANSFER PROCESSES IN LARGE-SCALE FLUIDIZED BED COMPLEX STRUCTURE APPARATUS AS AN EXAMPLE OF THE REACTOR OF ISOPARAFFINS DEHYDROGENATION. , 2016, , .		0
50	Inertial Deposition of Aerosol Particles in a Periodic Row of Porous Cylinders. Aerosol Science and Technology, 2015, 49, 400-408.	3.1	13
51	Inverse boundary value problem of aerohydrodynamics for an axisymmetric body with blowing from an annular channel. Computational Mathematics and Mathematical Physics, 2012, 52, 465-475.	0.8	1
52	A boundary value problem of aerohydrodynamics in designing an axisymmetric body with jet blowout. Russian Aeronautics, 2010, 53, 182-190.	0.2	1
53	Determining the shape of an axisymmetric body in a viscous incompressible flow on the basis of the pressure distribution on the body surface. Journal of Applied Mechanics and Technical Physics, 2009, 50, 927-935.	0.5	3
54	Combined method for solving an inverse boundary value problem of aerohydrodynamics for an axisymmetric body. Computational Mathematics and Mathematical Physics, 2008, 48, 1234-1242.	0.8	3

#	Article	IF	Citations
55	Investigation of the multi-layer open cell foam filter model using numerical simulation and experimental studies. IOP Conference Series: Earth and Environmental Science, 0, 337, 012059.	0.3	0