

Siarhei Khirevich

List of Publications by Year in descending order

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26
papers

1,181
citations

394421

19
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Fracture Geometry and Topology on the Connectivity and Flow Properties of Stochastic Fracture Networks. <i>Water Resources Research</i> , 2021, 57, e2020WR028652.	4.2	24
2	Fault Traces: Generation of Fault Segments and Estimation of Their Fractal Dimension. <i>Lithosphere</i> , 2021, 2021, .	1.4	2
3	Comment on "A periodic grain consolidation model of porous media" [Phys. Fluids A 1, 38 (1989)]. <i>Physics of Fluids</i> , 2019, 31, 109101.	4.0	2
4	Three-dimensional simulation of tracer transport dynamics in formations with high-permeability channels or fractures: Estimation of oil saturation. <i>Physics of Fluids</i> , 2019, 31, .	4.0	8
5	Finite-difference method Stokes solver (FDMSS) for 3D pore geometries: Software development, validation and case studies. <i>Computers and Geosciences</i> , 2018, 114, 41-58.	4.2	70
6	Behavior of numerical error in pore-scale lattice Boltzmann simulations with simple bounce-back rule: Analysis and highly accurate extrapolation. <i>Physics of Fluids</i> , 2018, 30, 093604.	4.0	23
7	Percolation Properties of Stochastic Fracture Networks in 2D and Outcrop Fracture Maps. , 2018, , .		3
8	Computational investigation of longitudinal diffusion, eddy dispersion, and trans-particle mass transfer in bulk, random packings of core-shell particles with varied shell thickness and shell diffusion coefficient. <i>Journal of Chromatography A</i> , 2015, 1407, 139-156.	3.7	50
9	Coarse- and fine-grid numerical behavior of MRT/TRT lattice-Boltzmann schemes in regular and random sphere packings. <i>Journal of Computational Physics</i> , 2015, 281, 708-742.	3.8	109
10	Impact of microstructure on the effective diffusivity in random packings of hard spheres. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	63
11	Longitudinal and transverse dispersion in flow through random packings of spheres: A quantitative comparison of experiments, simulations, and models. <i>Physical Review E</i> , 2014, 89, 053023.	2.1	19
12	Pore-size entropy of random hard-sphere packings. <i>Soft Matter</i> , 2013, 9, 3361.	2.7	39
13	Comparison of first and second generation analytical silica monoliths by pore-scale simulations of eddy dispersion in the bulk region. <i>Journal of Chromatography A</i> , 2013, 1303, 28-38.	3.7	45
14	Validation of Pore-Scale Simulations of Hydrodynamic Dispersion in Random Sphere Packings. <i>Communications in Computational Physics</i> , 2013, 13, 801-822.	1.7	41
15	From random sphere packings to regular pillar arrays: Analysis of transverse dispersion. <i>Journal of Chromatography A</i> , 2012, 1257, 98-115.	3.7	85
16	Geometrical and topological measures for hydrodynamic dispersion in confined sphere packings at low column-to-particle diameter ratios. <i>Journal of Chromatography A</i> , 2012, 1262, 77-91.	3.7	39
17	Influence of the Particle Size Distribution on Hydraulic Permeability and Eddy Dispersion in Bulk Packings. <i>Analytical Chemistry</i> , 2011, 83, 3903-3910.	6.5	96
18	Transient and asymptotic dispersion in confined sphere packings with cylindrical and non-cylindrical conduit geometries. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2485-2493.	3.4	12

#	ARTICLE	IF	CITATIONS
19	Structure-transport correlation for the diffusive tortuosity of bulk, monodisperse, random sphere packings. <i>Journal of Chromatography A</i> , 2011, 1218, 6489-6497.	3.7	51
20	From random sphere packings to regular pillar arrays: Effect of the macroscopic confinement on hydrodynamic dispersion. <i>Journal of Chromatography A</i> , 2011, 1218, 8231-8248.	3.7	64
21	Statistical analysis of packed beds, the origin of short-range disorder, and its impact on eddy dispersion. <i>Journal of Chromatography A</i> , 2010, 1217, 4713-4722.	3.7	114
22	Time and Length Scales of Eddy Dispersion in Chromatographic Beds. <i>Analytical Chemistry</i> , 2009, 81, 7057-7066.	6.5	67
23	Large-Scale Simulation of Flow and Transport in Reconstructed HPLC-Microchip Packings. <i>Analytical Chemistry</i> , 2009, 81, 4937-4945.	6.5	38
24	Structure-transport analysis for particulate packings in trapezoidal microchip separation channels. <i>Lab on A Chip</i> , 2008, 8, 1801.	6.0	15
25	Pore-Scale Dispersion in Electrokinetic Flow through a Random Sphere Packing. <i>Analytical Chemistry</i> , 2007, 79, 113-121.	6.5	37
26	Impact of Conduit Geometry and Bed Porosity on Flow and Dispersion in Noncylindrical Sphere Packings. <i>Analytical Chemistry</i> , 2007, 79, 9340-9349.	6.5	63