

# Andrey Kuznetsov

## List of Publications by Year in descending order

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195  
papers

3,503  
citations

196777

29  
h-index

223390

49  
g-index

202  
all docs

202  
docs citations

202  
times ranked

1615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Can the lack of fibrillar form of alpha-synuclein in Lewy bodies be explained by its catalytic activity?. <i>Mathematical Biosciences</i> , 2022, 344, 108754.	0.9	2
2	An analytical solution simulating growth of Lewy bodies. <i>Mathematical Medicine and Biology</i> , 2022, 39, 299-312.	0.8	1
3	Prediction of pore-scale-property dependent natural convection in porous media at high Rayleigh numbers. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107635.	2.6	3
4	Bidirectional, unlike unidirectional transport, allows transporting axonal cargos against their concentration gradient. <i>Journal of Theoretical Biology</i> , 2022, 546, 111161.	0.8	7
5	The evolution of turbulent micro-vortices and their effect on convection heat transfer in porous media. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	3
6	EFFECT OF MICROSCALE TURBULENT STRUCTURES DYNAMICS ON FORCED CONVECTION IN TURBULENT POROUS MEDIA FLOW. , 2021, , .		1
7	A macroscopic two-length-scale model for natural convection in porous media driven by a species-concentration gradient. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	1.4	12
8	Simulation of a sudden drop in distal dense core vesicle concentration in <i>Drosophila</i> type <i>scp</i> motoneuron terminals. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3523.	1.0	0
9	Symmetry breaking of turbulent flow in porous media composed of periodically arranged solid obstacles. <i>Journal of Fluid Mechanics</i> , 2021, 929, .	1.4	4
10	Model of Drug Delivery to Populations Composed of Two Cell Types. <i>Journal of Theoretical Biology</i> , 2021, 534, 110947.	0.8	0
11	Modeling tau transport in the axon initial segment. <i>Mathematical Biosciences</i> , 2020, 329, 108468.	0.9	5
12	How old are dense-core vesicles residing in <i>en passant</i> boutons: simulation of the mean age of dense-core vesicles in axonal arbours accounting for resident and transiting vesicle populations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200454.	1.0	8
13	Numerical Modeling of Momentum Dispersion in Porous Media Based on the Pore Scale Prevalence Hypothesis. <i>Transport in Porous Media</i> , 2020, 133, 271-292.	1.2	8
14	Effects of pore scale on the macroscopic properties of natural convection in porous media. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	1.4	18
15	A Novel Porcine Model for the Study of Cerebrospinal Fluid Dynamics: Development and Preliminary Results. <i>Frontiers in Neurology</i> , 2019, 10, 1137.	1.1	8
16	Modelling transport and mean age of dense core vesicles in large axonal arbours. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190284.	1.0	8
17	Marangoni convection of a viscous fluid over a vibrating plate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190214.	1.0	0
18	Investigating sensitivity coefficients characterizing the response of a model of tau protein transport in an axon to model parameters. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 71-83.	0.9	25

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19	A Numerical Study of Sensitivity Coefficients for a Model of Amyloid Precursor Protein and Tubulin-Associated Unit Protein Transport and Agglomeration in Neurons at the Onset of Alzheimer's Disease. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	5
20	The Onset of Convection in an Anisotropic Heterogeneous Porous Medium: A New Hydrodynamic Boundary Condition. <i>Transport in Porous Media</i> , 2019, 127, 549-558.	1.2	8
21	Effect of Microscopic Vortices Caused by Flow Interaction With Solid Obstacles on Heat Transfer in Turbulent Porous Media Flows. , 2019, , .		1
22	How the formation of amyloid plaques and neurofibrillary tangles may be related: a mathematical modelling study. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170777.	1.0	18
23	Simulating Reversibility of Dense Core Vesicles Capture in En Passant Boutons: Using Mathematical Modeling to Understand the Fate of Dense Core Vesicles in En Passant Boutons. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	4
24	A new mechanism for buoyancy driven convection in pulsating viscous flows: A theoretical study. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 340-348.	2.5	2
25	Simulating the effect of formation of amyloid plaques on aggregation of tau protein. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180511.	1.0	18
26	A STUDY OF THE EFFECTS OF THE PORE SIZE ON TURBULENCE INTENSITY AND TURBULENCE LENGTH SCALE IN FORCED CONVECTION FLOW IN POROUS MEDIA. , 2018, , .		2
27	What mechanisms of tau protein transport could be responsible for the inverted tau concentration gradient in degenerating axons?. <i>Mathematical Medicine and Biology</i> , 2017, 34, dqv041.	0.8	5
28	Utilization of the bootstrap method for determining confidence intervals of parameters for a model of MAP1B protein transport in axons. <i>Journal of Theoretical Biology</i> , 2017, 419, 350-361.	0.8	11
29	Turbulence modeling for flows in wall bounded porous media: An analysis based on direct numerical simulations. <i>Physics of Fluids</i> , 2017, 29, .	1.6	45
30	Simulating tubulin-associated unit transport in an axon: using bootstrapping for estimating confidence intervals of best-fit parameter values obtained from indirect experimental data. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170045.	1.0	15
31	Using Resampling Residuals for Estimating Confidence Intervals of the Effective Viscosity and Forchheimer Coefficient. <i>Transport in Porous Media</i> , 2017, 119, 451-459.	1.2	3
32	Free Convection: Cavities and Layers. , 2017, , 1-43.		0
33	The Effect of Spatially Nonuniform Internal Heating on the Onset of Convection in a Horizontal Fluid Layer. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	7
34	A direct numerical simulation study on the possibility of macroscopic turbulence in porous media: Effects of different solid matrix geometries, solid boundaries, and two porosity scales. <i>Physics of Fluids</i> , 2016, 28, .	1.6	42
35	What can trigger the onset of Parkinson's disease – A modeling study based on a compartmental model of $\alpha$ -synuclein transport and aggregation in neurons. <i>Mathematical Biosciences</i> , 2016, 278, 22-29.	0.9	19
36	Modeling of submicron particle filtration in an electret monolith filter with rectangular cross-section microchannels. <i>Aerosol Science and Technology</i> , 2016, 50, 1033-1043.	1.5	3

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37	Do Isoflux Boundary Conditions Inhibit Oscillatory Double-Diffusive Convection?. <i>Transport in Porous Media</i> , 2016, 112, 609-618.	1.2	11
38	The Onset of Convection in a Sloping Layered Porous Medium: Effects of Local Thermal Non-equilibrium and Heterogeneity. <i>Transport in Porous Media</i> , 2016, 114, 87-97.	1.2	12
39	Can numerical modeling help understand the fate of tau protein in the axon terminal?. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 115-125.	0.9	12
40	Unstable Forced Convection in a Plane Porous Channel With Variable-Viscosity Dissipation. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	8
41	The Effect of Pulsating Throughflow on the Onset of Convection in a Horizontal Porous Layer. <i>Transport in Porous Media</i> , 2016, 111, 731-740.	1.2	6
42	The Onset of Convection in a Horizontal Porous Layer with Spatially Non-Uniform Internal Heating. <i>Transport in Porous Media</i> , 2016, 111, 541-553.	1.2	16
43	Mathematical models of $\beta$ -synuclein transport in axons. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 515-526.	0.9	12
44	Numerical investigation of the possibility of macroscopic turbulence in porous media: a direct numerical simulation study. <i>Journal of Fluid Mechanics</i> , 2015, 766, 76-103.	1.4	82
45	Modeling neuropeptide transport in various types of nerve terminals containing en passant boutons. <i>Mathematical Biosciences</i> , 2015, 261, 27-36.	0.9	8
46	The Effect of Vertical Throughflow on Thermal Instability in a Porous Medium Layer Saturated by a Nanofluid: A Revised Model. <i>Journal of Heat Transfer</i> , 2015, 137, .	1.2	19
47	A coupled model of fast axonal transport of organelles and slow axonal transport of tau protein. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1485-1494.	0.9	12
48	Can an increase in neuropeptide production in the soma lead to DCV circulation in axon terminals with type III en passant boutons?. <i>Mathematical Biosciences</i> , 2015, 267, 61-78.	0.9	6
49	Modelling organelle transport after traumatic axonal injury. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 583-591.	0.9	4
50	Can a death signal half-life be used to sense the distance to a lesion site in axons?. <i>Journal of Biological Physics</i> , 2015, 41, 23-35.	0.7	0
51	Local Thermal Non-equilibrium and Heterogeneity Effects on the Onset of Double-Diffusive Convection in an Internally Heated and Solute Porous Medium. <i>Transport in Porous Media</i> , 2015, 109, 393-409.	1.2	12
52	The Effects of Double Diffusion and Local Thermal Non-equilibrium on the Onset of Convection in a Layered Porous Medium: Non-oscillatory Instability. <i>Transport in Porous Media</i> , 2015, 107, 261-279.	1.2	18
53	A comparison between the diffusion-reaction and slow axonal transport models for predicting tau distribution along an axon. <i>Mathematical Medicine and Biology</i> , 2015, 32, 263-283.	0.8	21
54	LOCAL THERMAL NON-EQUILIBRIUM AND HETEROGENEITY EFFECTS ON THE ONSET OF CONVECTION IN A LAYERED POROUS MEDIUM WITH VERTICAL THROUGHFLOW. <i>Journal of Porous Media</i> , 2015, 18, 125-136.	1.0	9

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55	The Onset of Convection in an Internally Heated Nanofluid Layer. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	14
56	Modeling anterograde and retrograde transport of short mobile microtubules from the site of axonal branch formation. <i>Journal of Biological Physics</i> , 2014, 40, 41-53.	0.7	3
57	Local Thermal Non-Equilibrium and Heterogeneity Effects on the Onset of Convection in a Layered Porous Medium. <i>Transport in Porous Media</i> , 2014, 102, 1-13.	1.2	17
58	Local Thermal Non-equilibrium and Heterogeneity Effects on the Onset of Convection in an Internally Heated Porous Medium. <i>Transport in Porous Media</i> , 2014, 102, 15-30.	1.2	12
59	Approximate modelling of the leftward flow and morphogen transport in the embryonic node by specifying vorticity at the ciliated surface. <i>Journal of Fluid Mechanics</i> , 2014, 738, 492-521.	1.4	5
60	A two population model of prion transport through a tunnelling nanotube. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1705-1715.	0.9	2
61	What tau distribution maximizes fast axonal transport toward the axonal synapse?. <i>Mathematical Biosciences</i> , 2014, 253, 19-24.	0.9	7
62	Sorting of cargos between axons and dendrites: modelling of differences in cargo transport in these two types of neurites. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 792-799.	0.9	3
63	Deep Saline Fluids in Geologic Basins: The Possible Role of the Soret Effect. <i>Transport in Porous Media</i> , 2013, 99, 297-305.	1.2	1
64	Optimization of Forced Convection Heat Transfer in a Composite Porous Medium Channel. <i>Transport in Porous Media</i> , 2013, 99, 349-357.	1.2	5
65	The Effect of Vertical Throughflow on the Onset of Convection Induced by Internal Heating in a Layered Porous Medium. <i>Transport in Porous Media</i> , 2013, 100, 101-114.	1.2	10
66	The Effect of Heterogeneity on the Onset of Double-Diffusive Convection Induced by Internal Heating in a Porous Medium: A Layered Model. <i>Transport in Porous Media</i> , 2013, 100, 83-99.	1.2	19
67	Onset of Convection with Internal Heating in a Porous Medium Saturated by a Nanofluid. <i>Transport in Porous Media</i> , 2013, 99, 73-83.	1.2	33
68	The Effect of Strong Heterogeneity on the Onset of Convection Induced by Internal Heating in a Porous Medium: A Layered Model. <i>Transport in Porous Media</i> , 2013, 99, 85-100.	1.2	27
69	Onset of Convection with Internal Heating in a Weakly Heterogeneous Porous Medium. <i>Transport in Porous Media</i> , 2013, 98, 543-552.	1.2	22
70	The Effect of Pulsating Deformation on the Onset of Convection in a Porous Medium. <i>Transport in Porous Media</i> , 2013, 98, 713-724.	1.2	8
71	The Onset of Convection in a Layered Porous Medium with Vertical Throughflow. <i>Transport in Porous Media</i> , 2013, 98, 363-376.	1.2	19
72	Protein transport in the connecting cilium of a photoreceptor cell: Modeling the effects of bidirectional protein transitions between the diffusion-driven and motor-driven kinetic states. <i>Computers in Biology and Medicine</i> , 2013, 43, 758-764.	3.9	2

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73	Modeling of Flow Through a Sandwiched Monolith Filter. Particulate Science and Technology, 2013, 31, 226-233.	1.1	0
74	Modeling transport of a pulse of radiolabeled organelles in a Drosophila unipolar motor neuron. Journal of Biological Physics, 2013, 39, 145-158.	0.7	0
75	A Note on Modeling High Speed Flow in a Bidisperse Porous Medium. Transport in Porous Media, 2013, 96, 495-499.	1.2	38
76	Analytical comparison between Nixon's "Logvinenko's" and Jung's "Brown's" theories of slow neurofilament transport in axons. Mathematical Biosciences, 2013, 245, 331-339.	0.9	4
77	Numerical investigation of axonal cargo rerouting in a dendrite: A three kinetic state model. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 428-443.	1.0	2
78	Modelling of axonal cargo rerouting in a dendrite. Mathematical Medicine and Biology, 2013, 30, 273-285.	0.8	5
79	An analytical solution describing the propagation of positive injury signals in an axon: effect of dynein velocity distribution. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 699-706.	0.9	10
80	An exact solution of transient equations describing slow axonal transport. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 1232-1239.	0.9	3
81	A compartmental model of neuropeptide circulation and capture between the axon soma and nerve terminals. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 574-585.	1.0	9
82	Analytical modelling of retrograde transport of nerve growth factors in an axon: a transient problem. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 95-102.	0.9	5
83	Modeling Prion Transport in a Tunneling Nanotube. , 2013, , .		0
84	An exact solution describing slow axonal transport of cytoskeletal elements: the effect of a finite half-life. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3384-3397.	1.0	7
85	Heterogeneity and Onset of Instability in Darcy's Flow With a Prescribed Horizontal Temperature Gradient. Journal of Heat Transfer, 2012, 134, .	1.2	17
86	A THREE-KINETIC-STATE MODEL OF AXONAL TRANSPORT DRUG DELIVERY. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250044.	0.3	3
87	MODELING OF ORGANELLE ENTRY IN AN AXON AND DENDRITE. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250026.	0.3	1
88	Modeling of Cross-Flow Across an Electrostatically Charged Monolith Filter. Particulate Science and Technology, 2012, 30, 461-473.	1.1	3
89	Modeling of Transient Transport of Soluble Proteins in the Connecting Cilium of a Photoreceptor Cell. Journal of Nanotechnology in Engineering and Medicine, 2012, 3, .	0.8	1
90	A minimal model of prion transport through a tunneling nanotube. Nanotube Therapy, 2012, 1, .	0.0	2

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91	The Onset of Double-Diffusive Convection in a Vertical Cylinder Occupied by a Heterogeneous Porous Medium with Vertical Throughflow. <i>Transport in Porous Media</i> , 2012, 95, 327-336.	1.2	20
92	Modelling transport of layered double hydroxide nanoparticles in axons and dendrites of cortical neurons. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 1263-1271.	0.9	3
93	Symmetry analysis and self-similar forms of fluid flow and heat-mass transfer in turbulent boundary layer flow of a nanofluid. <i>Physics of Fluids</i> , 2012, 24, .	1.6	44
94	Error correction in intracellular transport: Numerical investigation of rerouting of a pulse of misdirected axonal cargos in a dendrite. <i>Computers in Biology and Medicine</i> , 2012, 42, 1196-1203.	3.9	0
95	A model of axonal transport drug delivery: effects of diffusivity. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 1083-1092.	1.0	3
96	A model of axonal transport drug delivery. <i>Open Physics</i> , 2012, 10, .	0.8	3
97	Effect of kinesin velocity distribution on slow axonal transport. <i>Open Physics</i> , 2012, 10, .	0.8	0
98	Nanofluid bioconvection: interaction of microorganisms oxytactic upswimming, nanoparticle distribution, and heating/cooling from below. <i>Theoretical and Computational Fluid Dynamics</i> , 2012, 26, 291-310.	0.9	49
99	The Effect of Strong Heterogeneity and Strong Throughflow on the Onset of Convection in a Porous Medium: Non-Periodic Global Variation. <i>Transport in Porous Media</i> , 2012, 91, 927-938.	1.2	7
100	The Effect of Strong Heterogeneity and Strong Throughflow on the Onset of Convection in a Porous Medium: Periodic and Localized Variation. <i>Transport in Porous Media</i> , 2012, 92, 289-298.	1.2	4
101	The Onset of Convection in a Layer of a Porous Medium Saturated by a Nanofluid: Effects of Conductivity and Viscosity Variation and Cross-Diffusion. <i>Transport in Porous Media</i> , 2012, 92, 837-846.	1.2	32
102	Method of modelling intracellular transport in branching neurites: application to axons and dendrites of <i>Drosophila</i> sensory neurons. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 239-251.	0.9	3
103	Modeling bidirectional transport of quantum dot nanoparticles in membrane nanotubes. <i>Mathematical Biosciences</i> , 2011, 232, 101-109.	0.9	7
104	A four kinetic state model of fast axonal transport: Model formulation and perturbation solution. <i>Open Physics</i> , 2011, 9, .	0.8	2
105	Analytical solution of equations describing slow axonal transport based on the stop-and-go hypothesis. <i>Open Physics</i> , 2011, 9, .	0.8	5
106	Effect of cytoskeletal element degradation on merging of concentration waves in slow axonal transport. <i>Open Physics</i> , 2011, 9, 898-908.	0.8	5
107	Analytical investigation of various regimes of retrograde trafficking of neurotropic viruses in axons. <i>Open Physics</i> , 2011, 9, .	0.8	7
108	Merging of viral concentration waves in retrograde viral transport in axons. <i>Open Physics</i> , 2011, 9, .	0.8	2



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109	The Onset of Convection in a Strongly Heterogeneous Porous Medium with Transient Temperature Profile. <i>Transport in Porous Media</i> , 2011, 86, 851-865.	1.2	14
110	The Effect of Vertical Throughflow on Thermal Instability in a Porous Medium Layer Saturated by a Nanofluid. <i>Transport in Porous Media</i> , 2011, 87, 765-775.	1.2	77
111	The Onset of Convection in a Heterogeneous Porous Medium with Vertical Throughflow. <i>Transport in Porous Media</i> , 2011, 88, 347-355.	1.2	21
112	The Effects of Combined Horizontal and Vertical Heterogeneity on the Onset of Convection in a Porous Medium with Vertical Throughflow. <i>Transport in Porous Media</i> , 2011, 90, 465-478.	1.2	16
113	Onset of Convection in a Porous Medium with Strong Vertical Throughflow. <i>Transport in Porous Media</i> , 2011, 90, 883-888.	1.2	10
114	The Effect of Vertical Throughflow on the Onset of Convection in a Porous Medium in a Rectangular Box. <i>Transport in Porous Media</i> , 2011, 90, 993-1000.	1.2	21
115	Nanofluid bioconvection in water-based suspensions containing nanoparticles and oxytactic microorganisms: oscillatory instability. <i>Nanoscale Research Letters</i> , 2011, 6, 100.	3.1	193
116	Investigation of the role of diffusivity on spreading, rate, and merging of the bell-shaped waves in slow axonal transport. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 1040-1053.	1.0	10
117	Coupling a dynein transport model with a model of anterograde and retrograde transport of intracellular organelles. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 833-837.	2.9	1
118	Forced Convection in a Channel Partly Occupied by a Bidisperse Porous Medium: Symmetric Case. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	35
119	Special Issue on Heat and Mass Transfer in Biosystems. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	0
120	Transverse Heterogeneity Effects in the Dissipation-Induced Instability of a Horizontal Porous Layer. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	15
121	Modelling active transport in <i>Drosophila</i> unipolar motor neurons. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 1117-1131.	0.9	4
122	Comparison Between Numerically Simulated and Experimentally Measured Flowfield Quantities Behind a Pulsejet. <i>Flow, Turbulence and Combustion</i> , 2010, 84, 653-667.	1.4	22
123	Modeling organelle transport in branching dendrites with a variable cross-sectional area. <i>Journal of Biological Physics</i> , 2010, 36, 385-403.	0.7	2
124	The Effect of Strong Heterogeneity on the Onset of Convection in a Porous Medium: Periodic and Localized Variation. <i>Transport in Porous Media</i> , 2010, 81, 123-139.	1.2	16
125	Thermal Instability in a Porous Medium Layer Saturated by a Nanofluid: Brinkman Model. <i>Transport in Porous Media</i> , 2010, 81, 409-422.	1.2	218
126	Effect of Local Thermal Non-equilibrium on the Onset of Convection in a Porous Medium Layer Saturated by a Nanofluid. <i>Transport in Porous Media</i> , 2010, 83, 425-436.	1.2	166



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127	The Effect of Strong Heterogeneity on the Onset of Convection in a Porous Medium: 2D/3D Localization and Spatially Correlated Random Permeability Fields. <i>Transport in Porous Media</i> , 2010, 83, 465-477.	1.2	24
128	The Onset of Convection in a Heterogeneous Porous Medium with Transient Temperature Profile. <i>Transport in Porous Media</i> , 2010, 85, 691-702.	1.2	16
129	The Onset of Double-Diffusive Nanofluid Convection in a Layer of a Saturated Porous Medium. <i>Transport in Porous Media</i> , 2010, 85, 941-951.	1.2	161
130	Corrigendum to "Forced Convection with Slip-Flow in a Channel Occupied by a Hyperporous Medium Saturated by a Rarefied Gas"™, <i>Transport in Porous Media</i> , 64, 161-170, 2006, and "Thermally Developing Forced Convection in a Porous Medium Occupied by a Rarefied Gas: Parallel Plate Channel or Circular Tube with Walls at Constant Heat Flux"™, <i>Transport in Porous Media</i> , 76, 345-362, 2009. <i>Transport in Porous Media</i> , 2010, 85, 657-658.	1.2	3
131	Effect of the degree of polar mismatching on traffic jam formation in fast axonal transport. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 711-722.	0.9	11
132	MODELING TRAFFIC JAMS IN SLOW AXONAL TRANSPORT. <i>Journal of Mechanics in Medicine and Biology</i> , 2010, 10, 445-465.	0.3	3
133	Effect of strong heterogeneity on the onset of convection in a porous medium: Importance of spatial dimensionality and geologic controls. <i>Water Resources Research</i> , 2010, 46, .	1.7	29
134	Effect of vesicle traps on traffic jam formation in fast axonal transport. <i>Mathematical Biosciences</i> , 2010, 226, 147-155.	0.9	10
135	Comparison of active transport in neuronal axons and dendrites. <i>Mathematical Biosciences</i> , 2010, 228, 195-202.	0.9	5
136	Modeling of particle trajectories in an electrostatically charged channel. <i>Physics of Fluids</i> , 2010, 22, .	1.6	35
137	Forced Convection With Laminar Pulsating Counterflow in a Saturated Porous Channel. <i>Journal of Heat Transfer</i> , 2009, 131, .	1.2	4
138	Thermally Developing Forced Convection in a Porous Medium Occupied by a Rarefied Gas: Parallel Plate Channel or Circular Tube with Walls at Constant Heat Flux. <i>Transport in Porous Media</i> , 2009, 76, 345-362.	1.2	35
139	Forced Convection with Laminar Pulsating Counterflow in a Saturated Porous Circular Tube. <i>Transport in Porous Media</i> , 2009, 77, 447-462.	1.2	8
140	The Effect of Strong Heterogeneity on the Onset of Convection in a Porous Medium. <i>Transport in Porous Media</i> , 2009, 77, 169-186.	1.2	27
141	The effect of a transition layer between a fluid and a porous medium: shear flow in a channel. <i>Transport in Porous Media</i> , 2009, 78, 477-487.	1.2	53
142	A macroscopic model of traffic jams in axons. <i>Mathematical Biosciences</i> , 2009, 218, 142-152.	0.9	27
143	Experimental and numerical investigation of the peeling force required for the detachment of fabric from the forming belt in the hydroentanglement process. <i>Journal of the Textile Institute</i> , 2009, 100, 99-110.	1.0	2
144	Combined numerical and experimental investigation on the effect of jet pressure and forming belt geometry on the hydroentanglement process. <i>Journal of the Textile Institute</i> , 2009, 100, 293-304.	1.0	6

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145	The effects of combined horizontal and vertical heterogeneity on the onset of convection in a porous medium: double diffusive case. <i>Transport in Porous Media</i> , 2008, 72, 157-170.	1.2	36
146	Investigation of a particulate flow containing spherical particles subjected to microwave heating. <i>Heat and Mass Transfer</i> , 2008, 44, 481-493.	1.2	12
147	Analytical investigation of transient molecular-motor-assisted transport in elongated cells. <i>Open Physics</i> , 2008, 6, 45-51.	0.8	3
148	On the evolution of salt lakes: Episodic convection beneath an evaporating salt lake. <i>Water Resources Research</i> , 2008, 44, .	1.7	37
149	The Effect of a Transition Layer Between a Fluid and a Porous Medium: Forced Convection in a Channel. <i>Journal of Heat Transfer</i> , 2008, 130, .	1.2	4
150	Numerical modeling of molecular-motor-assisted transport of adenoviral vectors in a spherical cell. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 215-222.	0.9	7
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