

SPECIAL TOPICS & REVIEWS IN POROUS MEDIA

AN INTERNATIONAL JOURNAL

VOLUME 8 CONTENTS, 2017

Page Range of Issues

Issue 1: 1–90; Issue 2: 91–166; Issue 3: 167–261; Issue 4: 263–353

ISSUE 1

Analytical Investigation of Laminar Forced Convection in a Channel Filled with Porous Material Subjected to Constant Wall Heat Flux <i>D. Bhargavi & J.S. Kumar Reddy</i>	1
Effects of Alternating Current Electric Field and Thermal Non-Equilibrium on the Brinkman–Bénard Instability <i>I.S. Shivakumara, M. Ravisha, M. Akkanagamma, & A.L. Mamatha</i>	17
Analytical Solution of the Flow in a Composite Cylindrical Channel Partially Filled with a Porous Medium in the Presence of Magnetic Field <i>V.K. Verma & A.K. Gupta</i>	39
Investigation of the Effect of Nanoclay on Xanthan-Cr (III) Nanocomposite Gel Structure and Stability <i>M. Nasiri & I. Jafari</i>	49
Entropy Generation of Cu–Water Nanofluids through Non-Darcy Porous Medium over a Cone with Convective Boundary Condition and Viscous Dissipation Effects <i>A. Mahdy, M.A. Mansour, S.E. Ahmed, & S.S. Mohamed</i>	59
Mixed Convection Boundary-Layer Flow over a Semi-Infinite Vertical Surface Implanted in a Permeable Medium <i>C.N. Guled & B.B. Singh</i>	73

ISSUE 2

Preface: The 2nd EWAS International Conference on Efficient & Sustainable Water Systems toward Worth Living Development <i>E. Keramatis</i>	v
Numerical Simulation of Convective Currents in Aquatic Canopies using a Macroscopic Model <i>M. Tsakiri & P. Prinos</i>	91
A Study of Flow in Open Channels with Vegetation: Experiments and Numerical Models <i>E. Keramatis, D. Kasiteropoulou, A. Liakopoulos, N. Michalolias, & G. Pechlivanidis</i>	109
Uncertainties in Porous Flow Models <i>S. Stevoić, Z. Nestorović, & M. Lutovac</i>	121
Numerical Study of Particle Transport in a River with a Lateral Harbor Basin <i>Y. Savvidis & E. Keramatis</i>	127
The Impact of the Instrument in Velocity Measurements in an Open Channel with a Porous Bed <i>E. Keramatis</i>	137
Artificial Neural Network for Bed Load Transport Rate in Nestos River, Greece <i>T. Papalaskaris & P. Dimitriadou</i>	145
The Influence of Different Types of Permeable Bed (Flexible Vegetation and Inflexible Rod Bundle) in Gravity Currents <i>E. Keramatis</i>	159

ISSUE 3

Brinkman Flow in an Annular Region between Two Coaxial Translating Cylinders Filled with a Porous Medium <i>V.K. Verma & P.K. Dixit</i>	167
Influence of Variable Properties and Double Dispersion on Mixed Convection in a Power-Law Fluid-Saturated Non-Darcy Porous Medium <i>J. Pranitha, G. Venkata Suman, & D. Srinivasacharya</i>	177
Theoretical Investigation of the Instability of Convection in a Horizontal Porous Layer <i>N.C. Roy</i>	197
A Spectral Method Approach for Role of Soret and Viscous Dissipation over a Truncated Cone in Micropolar Fluid Saturated Non-Darcy Porous Medium with Magnetic Field Effect <i>Ch. RamReddy & T. Pradeepa</i>	211
Flow Past a Porous Sphere of Radially Varying Permeability Embedded in Another Porous Medium <i>V.K. Verma & P.K. Dixit</i>	231
Density Maximum Effect of Double-Diffusive Mixed Convection Heat Transfer in a Two-Sided Lid-Driven Porous Cavity <i>N. Nithyadevi, M. Rajarathinam, & N. Suresh</i>	245

ISSUE 4

Preface: Special Issue of Flow and Multiphysical Transport in Porous Media	v
A Mathematical Model of Microbial Enhanced Oil Recovery in Porous Media <i>J. Xiu, T. Wang, Y. Guo, Q. Chi, L. Huang, Y. Ma, & W. Zhu</i>	263
Fluid Flow Path Preferential Selection Algorithm Based on Topological Network Model of Porous Media <i>D. Zhang, Y. Ju, & P. Liu</i>	273
Research on Dynamic Change of Reservoir Permeability Based on Coupled Pore Fluid Flow and Stress Analysis <i>J. Han, D. Ma, Y. Ju, K. Zhao, Y. Xu, & S. Gao</i>	287
Electrokinetic Coupling Model for Porous Flow in Tight Oil Reservoirs <i>X. Qianhua, Y. Zhengming, L. Xiangiu, X. Wei, & H. Yanzhang</i>	295
A Heat and Mass Transfer Coupling Model for Transition Interface of Expanding Solvent Steam-Assisted Gravity Drainage <i>H. Liu, L. Cheng, Y. Du, Q. Huang, & P. Xiao</i>	307
Study of Waterflooding Performance in Low Permeability Reservoirs using Stream-Tube Method <i>H. Yin, X. Li, H. Zhong, & Z. Xu</i>	325
Multiple Scenarios Integrated Upscaling with Full Tensor Effects of Fractured Reservoirs <i>Z. Lei, J. Li, & S. Wu</i>	337

SPECIAL TOPICS & REVIEWS IN POROUS MEDIA
AN INTERNATIONAL JOURNAL

AUTHOR INDEX VOLUME 8

Page Range of Issues

Issue 1: 1–90; Issue 2: 91–166; Issue 3: 167–261; Issue 4: 263–353

Ahmed, S.E., 59	Liu, H., 307	Shivakumara, I.S., 17
Akkanagamma, M., 17	Liu, P., 273	Singh, B.B., 73
Bhargavi, D., 1	Lutovac , M., 121	Srinivasacharya, D., 177
Cheng, L., 307	Ma, D., 287	Stevović, S., 121
Chi, Q., 263	Ma, Y., 263	Suresh, N., 245
Dimitriadou, P., 145	Mahdy, A., 59	Tsakiri, M., 91
Dixit, P.K., 167, 231	Mamatha, A.L., 17	Venkata Suman, G., 177
Du, Y., 307	Mansour, M.A., 59	Verma, V.K., 39,167, 231
Gao, S., 287	Michalolias, N., 109	Wang, T., 263
Guled, C.N., 73	Mohamed, S.S., 59	Wei, X., 295
Guo, Y., 263	Nasiri, M., 49	Wu, S., 337
Gupta, A.K., 39	Nestorović, Z., 121	Xiangiu, L., 295
Han, J., 287	Nithyadevi, N., 245	Xiao, P., 307
Huang, L., 263	Papalaskaris, T., 145	Xiu, J., 263
Huang, Q., 307	Pechlivanidis, G.,109	Xu, Y., 287
Jafari, I., 49	Pradeepa, T., 211	Xu, Z., 325
Ju, Y., 273, 287	Pranitha, J., 177	Yanzhang, H., 295
Kasiteropoulou, D., 109	Prinos, P., 91	Yin, H., 325
Keramaris, E., 109, 127, 137, 159	Qianhua, X., 295	Zhang, D., 273
Lei, Z., 337	Rajarathinam, M., 245	Zhao, K., 287
Li, J., 337	RamReddy, Ch., 211	Zhengming, Y.,295
Li, X., 325	Ravisha, M., 17	Zhong, H., 325
Liakopoulos, A., 109	Reddy, J.S.K., 1Roy, N.C., 197	Zhu, W., 263
	Savvidis, Y.,127	

SPECIAL TOPICS & REVIEWS IN POROUS MEDIA

AN INTERNATIONAL JOURNAL

SUBJECT INDEX VOLUME 8

Page Range of Issues

Issue 1: 1–90; Issue 2: 91–166; Issue 3: 167–261; Issue 4: 263–353

Abaqus, 287	full tensor effect, 337	permeability, 287
accumulation, 121	fully developed, 1	permeable medium, 73
annular channel, 167	gel stability, 49	pore structure, 273
artificial neural network (ANN), 145	grass bed, 159	porous bed, 137
bed load transport rate, 145	gravity currents, 159	porous cavity, 245
Bejan number, 59	harbor, 127	porous layer, 197
boundary layer, 73	Hartmaan number, 39	porous media, 91
Brinkman equation, 167	heat and mass transfer, 307	porous medium, 1, 17, 39, 167
bulk strain, 287	heat transfer, 91	porous sphere, 231
composite channel, 39	hot-filmanometry, 137	porous, 121
computational fluid dynamics model, 109	hydrocarbon reservoirs, 49	power-law fluid, 177
computations, 145	hydrodynamics, 127	Rayleigh number, 197
convection, 17, 91	instability, 197	reversible adsorption, 263
convective boundary condition, 211	irreversible adsorption, 263	river, 127
coupled pore fluid flow and stress, 287	low permeability reservoirs, 325	rock mechanics, 287
dam, 121	mathematical model, 263	rock seepage, 273
Darcy-Brinkman equation, 1, 231	matter transport, 127	rod bundle bed, 159
density maximum, 245	MDS, 273	seepage mechanics, 287
DFM, 337	measurements, 145	solutal dispersion, 177
differential transformation method (DTM), 73	MHD flow, 39	spectral quasi-linearization method, 211
DPDK, 337	MHD, 177, 211	steam-assisted gravity drainage, 307
EDL fluid, 295	micro- and nanoscale forces, 295	stream discharge, 14
electric field, 17	microbial flooding, 263	stream line, 231
electrokinetic coupling model, 295	micropolar fluid, 211	stream-tube model, 325
enhanced oil recovery, 263	mixed convection, 73, 177, 245	stream-tube model, 341
entropy generation, 59	multicomponent solvent, 307	surface radiation, 197
excessive water production, 49	nanocomposite gel, 49	surface reaction, 197
experimental analysis, 159	nanofluid, 59	thermal conductivity, 177
five-spot pattern, 325	Navier-Stokes equations, 91	thermal dispersion, 177
flexible vegetation, 109	Nestos River, 145	thermal non-equilibrium, 17
flow models, 121	non-Darcy porous medium, 59, 177, 211	threshold pressure gradient, 325
fluid flow path selection algorithm, 273	numerical models, 127	tight reservoirs, 295
fractured reservoir, 337	open channel flow, 109	topological network model, 273
free convection, 59	Padé approximation, 73	transition interface, 307
front velocity, 159	partially filled with porous medium, 1	truncated cone, 211
	particle image velocimetry (PIV), 109, 137	uncertainty, 121
	permeability parameter, 39	upscaling, 337
	permeability, 167	variable permeability, 231
		variable viscosity, 177

vegetation, 91
velocity distribution, 137
viscosity correction, 295

viscosity correction,
311
viscous flow, 167, 231

water permeability, 49
waterflooding performance,
325

REVIEWERS FOR VOLUME 8

The Editorial Board of the *Special Topics and Reviews in Porous Media – An International Journal* would like to thank the following reviewers for their reviews and their help in establishing a high-quality review process. We add particular thanks to MANY reviewers who did multiple reviews.

Ackerer, P.	Kumar, A.	Verma, V.K.
Akbar, N.	Leong , K.Y.	Wang, M.
Al-Sairafi, A.	Li, Y.	Wang, X.
Aydin, O.	Liu, T.	Yadav, D.
Becker, S.	Mali, S.	Yao, J.
Berg, S.	Martins-Costa, M.L.	Yong, L.
Bianco, V.	Pahlavan, A.A.	Youjun, J.
Bordbar, V.	Prakash, J.	Yu, B.
Cai, J.	Prathapan, S.	Zeidan, D.
Chand, R.	Prosperetti, A.	Song , F.-Q.
Chen, F.	Savvidis, Y.	Zhang, J.
Chen, Z.	Seki, K.	Zhang, L.
Keramaris, E.	Sivaraj, R.	Zhang, L
Khait, A.	Souayeh, B.	Zhao, Y.
Khan, S.U.	Srinivas, S.	Zheng, J.
Khanafer, K.M.		Zou, W.