

Record of published articles of the Porous Media Group (PMG) 2012-2022

The following is a record of published articles (including review and proceeding papers) of the [PMG at the University of Bergen \(UiB\)](#), within the years 2012-2022.

It contains a list of articles with authors affiliated with the group and [UiB's Department of Mathematics](#) and serves as the basis for the [bibliometric report 2012-2022](#) with a total number of 237 published papers.

List of affiliated authors (permanent and temporary)

I. Berre, J. M. Nordbotten, F. A. Radu, K. Kumar, H. Dahle, E. Keilegavlen, I. Stefansson, O. Duran, J. W. Both, H. Dang-Trung, E. Storvik, E. Ahmed, J. Varela, M. Starnoni, A. Fumagalli, P. Sævik, B. K. Kometa, A. Nissen, M. Sargado, F. Doster, M. Gerritsen, B. Wohlmuth, S. Pop, R. Helmig, X. Hu, I. Aavatsmark, M. Rognes, T. Mannseth, S. Aanonsen, S. Halldorsdottir, N. S. Taki, S. I. Banshoya, V. Lipovac, D. F. Holmen, M. Nevland, Y. Zabegaev, P. von Schultendorff, M. Dugstad, D. Illiano, A. M. Kassa, I. Gjerde, A. Budisa, M. Borregales, R. Berge, D. Landa-Marban, M. Brun, L. Vasilyev, W. Boon, E. Ucar, T. I. Bjørnarå, S. Alyaev, O. Andersen, J. O. Skogestad, C. Bringedal, M. Ashraf, T. H. Sandve, A. Sandvin, E. Hanson, A. Tambue & K. A. Lie

Table 1 Record as extracted from Web of Science for given authors with affiliation "Department of Mathematics, University of Bergen", for the period 2012-2022.

Author Full Names	Article Title	DOI Link
Boon, W. M.; Nordbotten, J. M.	Mixed-dimensional poromechanical models of fractured porous media	http://dx.doi.org/10.1007/s00707-022-03378-1
Dang, Hau Trung; Berre, Inga; Keilegavlen, Eirik	Two-level simulation of injection-induced fracture slip and wing-crack propagation in poroelastic media	http://dx.doi.org/10.1016/j.iirmms.2022.105248
Causemann, Marius; Vinje, Vegard; Rognes, Marie E.	Human intracranial pulsatility during the cardiac cycle: a computational modelling framework	http://dx.doi.org/10.1186/s12987-022-00376-2
Hornkjøl, Martin; Valnes, Lars Magnus; Ringstad, Geir; Rognes, Marie E.; Eide, Per-Kristian; Mardal, Kent-Andre; Vinje, Vegard	CSF circulation and dispersion yield rapid clearance from intracranial compartments	http://dx.doi.org/10.3389/fbioe.2022.932469
Seus, David; Radu, Florin A.; Rohde, Christian	Towards hybrid two-phase modelling using linear domain decomposition	http://dx.doi.org/10.1002/num.22906
Berge, Runar L.; Gasda, Sarah E.; Keilegavlen, Eirik; Sandve, Tor Harald	Impact of deformation bands on fault-related fluid flow in field-scale simulations	http://dx.doi.org/10.1016/j.ijggc.2022.103729
Suciu, Nicolae; Radu, Florin A.	Global random walk solvers for reactive transport and biodegradation processes in heterogeneous porous media	http://dx.doi.org/10.1016/j.advwatres.2022.104268
Daversin-Catty, Cecile; Gjerde, Ingeborg G.; Rognes, Marie E.	Geometrically Reduced Modelling of Pulsatile Flow in Perivascular Networks	http://dx.doi.org/10.3389/fphy.2022.882260
Sanei, Manouchehr; Duran, Omar; Devloo, Philippe R. B.; Santos, Erick S. R.	Evaluation of the impact of strain-dependent permeability on reservoir productivity using iterative coupled reservoir geomechanical modeling	http://dx.doi.org/10.1007/s40948-022-00344-y
Dugstad, Martin; Kumar, Kundan	Dimensional reduction of a fractured medium for a two-phase flow	http://dx.doi.org/10.1016/j.advwatres.2022.104140

Ellingsrud, Ada J.; Dukefoss, Didrik B.; Enger, Rune; Halnes, Geir; Pettersen, Klas; Rognes, Marie E.	<i>Validating a Computational Framework for Ionic Electrodiffusion with Cortical Spreading Depression as a Case Study</i>	http://dx.doi.org/10.1523/ENEURO.0408-21.2022
Singh, Tanu; Gupta, Shubhangi; Chiogna, Gabriele; Krause, Stefan; Wohlmuth, Barbara	<i>Impacts of Peak-Flow Events on Hyporheic Denitrification Potential</i>	http://dx.doi.org/10.1029/2021WR031407
Nezhadali, Mohammad; Bhakta, Tuhin; Fossum, Kristian; Mannseth, Trond	<i>Iterative multilevel assimilation of inverted seismic data</i>	http://dx.doi.org/10.1007/s10596-021-10125-3
Kassa, A. M.; Gasda, S. E.; Landa-Marban, D.; Sandve, T. H.; Kumar, K.	<i>Field-scale impacts of long-term wettability alteration in geological CO2 storage</i>	http://dx.doi.org/10.1016/j.ijggc.2021.103556
Brun, Mats K.; Ahmed, Elyes; Nordbotten, Jan M.; Stenseth, Nils Chr.	<i>MODELING THE PROCESS OF SPECIATION USING A MULTISCALE FRAMEWORK INCLUDING A POSTERIORI ERROR ESTIMATES</i>	http://dx.doi.org/10.1137/21M1405228
Eder, S. D.; Hellner, S. K.; Forti, S.; Nordbotten, J. M.; Manson, J. R.; Coletti, C.; Holst, B.	<i>Temperature-Dependent Bending Rigidity of AB-Stacked Bilayer Graphene</i>	http://dx.doi.org/10.1103/PhysRevLett.127.266102
Burman, Erik; Duran, Omar; Ern, Alexandre	<i>Unfitted hybrid high-order methods for the wave equation</i>	http://dx.doi.org/10.1016/j.cma.2021.114366
Storvik, Erlend; Both, Jakub Wiktor; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>A Cahn-Hilliard-Biot system and its generalized gradient flow structure</i>	http://dx.doi.org/10.1016/j.aml.2021.107799
Qohar, Ulin Nuha A.; Munthe-Kaas, Antonella Zanna; Nordbotten, Jan Martin; Hanson, Erik Andreas	<i>A nonlinear multi-scale model for blood circulation in a realistic vascular system</i>	http://dx.doi.org/10.1098/rsos.201949
Both, Jakub Wiktor; Pop, Iuliu Sorin; Yotov, Ivan	<i>Global existence of weak solutions to unsaturated poroelasticity</i>	http://dx.doi.org/10.1051/m2an/2021063
Both, J. W.; Barnafi, N. A.; Radu, F. A.; Zunino, P.; Quarteroni, A.	<i>Iterative splitting schemes for a soft material poromechanics model</i>	http://dx.doi.org/10.1016/j.cma.2021.114183
Bittner, Daniel; Engel, Michael; Wohlmuth, Barbara; Labat, David; Chiogna, Gabriele	<i>Temporal Scale-Dependent Sensitivity Analysis for Hydrological Model Parameters Using the Discrete Wavelet Transform and Active Subspaces</i>	http://dx.doi.org/10.1029/2020WR028511
Stefansson, Ivar; Keilegavlen, Eirik; Halldorsdottir, Saeunn; Berre, Inga	<i>Numerical Modelling of Convection-Driven Cooling, Deformation and Fracturing of Thermo-Poroelastic Media</i>	http://dx.doi.org/10.1007/s11242-021-01676-1
Keilegavlen, Eirik; Duboeuf, Laure; Dichiarante, Anna Maria; Halldorsdottir, Saeunn; Stefansson, Ivar; Naumann, Marcel; Guonason, Egill Arni; Agustsson, Kristjan; Eggertsson, Guojon Helgi; Oye, Volker; Berre, Inga	<i>Hydro-mechanical simulation and analysis of induced seismicity for a hydraulic stimulation test at the Reykjanes geothermal field, Iceland</i>	http://dx.doi.org/10.1016/j.geothermics.2021.102223
Stefansson, Ivar; Berre, Inga; Keilegavlen, Eirik	<i>A fully coupled numerical model of thermo- hydro-mechanical processes and fracture contact mechanics in porous media</i>	http://dx.doi.org/10.1016/j.cma.2021.114122
Vinje, Vegard; Bakker, Erik N. T. P.; Rognes, Marie E.	<i>Brain solute transport is more rapid in periarterial than perivenous spaces</i>	http://dx.doi.org/10.1038/s41598-021-95306-x
Dugstad, Martin; Kumar, Kundan; Pettersen, Oystein	<i>Dimensional reduction of a fractured medium for a polymer EOR model</i>	http://dx.doi.org/10.1007/s10596-021-10075-w

Fritz, Marvin; Jha, Prashant K.; Koeppl, Tobias; Oden, J. Tinsley; Wagner, Andreas; Wohlmuth, Barbara	<i>Modeling and simulation of vascular tumors embedded in evolving capillary networks</i>	http://dx.doi.org/10.1016/j.cma.2021.113975
Nezhadali, Mohammad; Bhakta, Tuhin; Fossum, Kristian; Mannseth, Trond	<i>Multilevel Assimilation of Inverted Seismic Data With Correction for Multilevel Modeling Error</i>	http://dx.doi.org/10.3389/fams.2021.673077
Suciu, Nicolae; Illiano, Davide; Prechtel, Alexander; Radu, Florin A.	<i>Global random walk solvers for fully coupled flow and transport in saturated/unsaturated porous media</i>	
Both, Jakub Wiktor	<i>On the rate of convergence of alternating minimization for non-smooth non-strongly convex optimization in Banach spaces</i>	http://dx.doi.org/10.1007/s11590-021-01753-w
Starnoni, Michele; Berre, Inga; Keilegavlen, Eirik; Nordbotten, Jan Martin	<i>Modeling and discretization of flow in porous media with thin, full-tensor permeability inclusions</i>	http://dx.doi.org/10.1002/nme.6744
Suciu, Nicolae; Illiano, Davide; Prechtel, Alexander; Radu, Florin A.	<i>Global random walk solvers for fully coupled flow and transport in saturated/unsaturated porous media</i>	http://dx.doi.org/10.1016/j.advwatres.2021.103935
Kumar, Kundan; Kyas, Svetlana; Nordbotten, Jan Martin; Repin, Sergey	<i>Guaranteed and computable error bounds for approximations constructed by an iterative decoupling of the Biot problem</i>	http://dx.doi.org/10.1016/j.camwa.2020.05.005
Storvik, Erlend; Both, Jakub Wiktor; Sargado, Juan Michael; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>An accelerated staggered scheme for variational phase-field models of brittle fracture</i>	http://dx.doi.org/10.1016/j.cma.2021.113822
Kassa, Abay Molla; Gasda, Sarah E.; Kumar, Kundan; Radu, Florin A.	<i>Modeling of relative permeabilities including dynamic wettability transition zones</i>	http://dx.doi.org/10.1016/j.petrol.2021.108556
Anand, Shashank Kumar; Hooshyar, Milad; Nordbotten, Jan Martin; Porporato, Amilcare	<i>A minimalist model for coevolving supply and drainage networks</i>	http://dx.doi.org/10.1098/rsos.201407
Landa-Marban, D.; Tveit, S.; Kumar, K.; Gasda, S. E.	<i>Practical approaches to study microbially induced calcite precipitation at the field scale</i>	http://dx.doi.org/10.1016/j.ijggc.2021.103256
Bastidas, Manuela; Bringedal, Carina; Pop, Iuliu Sorin; Radu, Florin Adrian	<i>Numerical homogenization of non-linear parabolic problems on adaptive meshes</i>	http://dx.doi.org/10.1016/j.icp.2020.109903
Ahmed, Elyes; Fumagalli, Alessio; Budisa, Ana; Keilegavlen, Eirik; Nordbotten, Jan M.; Radu, Florin A.	<i>ROBUST LINEAR DOMAIN DECOMPOSITION SCHEMES FOR REDUCED NONLINEAR FRACTURE FLOW MODELS</i>	http://dx.doi.org/10.1137/19M1268392
Berre, Inga; Boon, Wietse M.; Flemisch, Bernd; Fumagalli, Alessio; Glaeser, Dennis; Keilegavlen, Eirik; Scotti, Anna; Stefansson, Ivar; Tatomir, Alexandru; Brenner, Konstantin; Burbulla, Samuel; Devloo, Philippe; Duran, Omar; Favino, Marco; Hennicker, Julian; Lee, I-Hsien; Lipnikov, Konstantin; Masson, Roland; Mosthaf, Klaus; Nestola, Maria Giuseppina Chiara; Ni, Chuen-Fa; Nikitin, Kirill; Schadle, Philipp; Svyatskiy, Daniil;	<i>Verification benchmarks for single-phase flow in three-dimensional fractured porous media</i>	http://dx.doi.org/10.1016/j.advwatres.2020.103759

Yanbarisov, Ruslan; Zulian, Patrick		
Gjerde, Ingeborg G.; Kumar, Kundan; Nordbotten, Jan M.	<i>A MIXED APPROACH TO THE POISSON PROBLEM WITH LINE SOURCES</i>	http://dx.doi.org/10.1137/19M1296549
Hodneland, Erlend; Hu, Xiaozhe; Nordbotten, Jan M.	<i>WELL-POSEDNESS AND DISCRETIZATION FOR A CLASS OF MODELS FOR MIXED-DIMENSIONAL PROBLEMS WITH HIGH-DIMENSIONAL GAP</i>	http://dx.doi.org/10.1137/20M1362541
Sargado, Juan Michael; Keilegavlen, Eirik; Berre, Inga; Nordbotten, Jan Martin	<i>A combined finite element-finite volume framework for phase-field fracture</i>	http://dx.doi.org/10.1016/j.cma.2020.113474
Thune, Eveline L.; Kosinski, Pawel; Balakin, Boris V.; Alyaev, Sergey	<i>A numerical study of flow field and particle deposition in nasal channels with deviant geometry</i>	http://dx.doi.org/10.1080/19942060.2020.1863267
Landa-Marban, David; Bodtker, Gunhild; Vik, Bartek Florczyk; Pettersson, Per; Pop, Iuliu Sorin; Kumar, Kundan; Radu, Florin Adrian	<i>Mathematical Modeling, Laboratory Experiments, and Sensitivity Analysis of Bioplug Technology at Darcy Scale</i>	
Ambartsumyan, Ilona; Khattatov, Eldar; Nordbotten, Jan Martin; Yotov, Ivan	<i>A multipoint stress mixed finite element method for elasticity on quadrilateral grids</i>	http://dx.doi.org/10.1002/num.22624
Boon, W. M.; Nordbotten, J. M.	<i>Stable mixed finite elements for linear elasticity with thin inclusions</i>	http://dx.doi.org/10.1007/s10596-020-10013-2
Hau Dang-Trung; Keilegavlen, Eirik; Berre, Inga	<i>Numerical modeling of wing crack propagation accounting for fracture contact mechanics</i>	http://dx.doi.org/10.1016/j.ijsolstr.2020.08.017
Brun, Mats Kirkesaether; Ahmed, Elyes; Berre, Inga; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>Monolithic and splitting solution schemes for fully coupled quasi-static thermo-poroelasticity with nonlinear convective transport</i>	http://dx.doi.org/10.1016/j.camwa.2020.08.022
Keilegavlen, Eirik; Berge, Runar; Fumagalli, Alessio; Starnoni, Michele; Stefansson, Ivar; Varela, Jhabriel; Berre, Inga	<i>PorePy: an open-source software for simulation of multiphysics processes in fractured porous media</i>	http://dx.doi.org/10.1007/s10596-020-10002-5
De Hoop, Maarten, V; Kumar, Kundan; Ye, Ruichao	<i>ANALYSIS OF DYNAMIC RUPTURES GENERATING SEISMIC WAVES IN A SELF-GRAVITATING PLANET: AN ITERATIVE COUPLING SCHEME AND WELL-POSEDNESS</i>	http://dx.doi.org/10.1090/qam/1561
Parsons, Aoife E.; Escobar-Lux, Rosa H.; Saevik, Pal Naeveerlid; Samuelsen, Ole B.; Agnalt, Ann-Lisbeth	<i>The impact of anti-sea lice pesticides, azamethiphos and deltamethrin, on European lobster (Homarus gammarus) larvae in the Norwegian marine environment</i>	http://dx.doi.org/10.1016/j.envpol.2020.114725
Koeppel, Tobias; Vidotto, Ettore; Wohlmuth, Barbara	<i>A3D-1Dcoupled blood flow and oxygen transport model to generate microvascular networks</i>	http://dx.doi.org/10.1002/cnm.3386
Nordbotten, Jan Martin; Bokma, Folmer; Hermansen, Jo Skeie; Stenseth, Nils Chr	<i>The dynamics of trait variance in multi-species communities</i>	http://dx.doi.org/10.1098/rsos.200321
Kassa, Abay Molla; Kumar, Kundan; Gasda, Sarah E.; Radu, Florin A.	<i>Implicit linearization scheme for nonstandard two-phase flow in porous media</i>	http://dx.doi.org/10.1002/flid.4891
Kassa, Abay Molla; Gasda, Sarah Eileen; Kumar, Kundan; Radu, Florin Adrian	<i>Impact of time-dependent wettability alteration on the dynamics of capillary pressure</i>	http://dx.doi.org/10.1016/j.advwatres.2020.103631
Reveron, Manuel Antonio Borregales; Kumar, Kundan; Nordbotten, Jan	<i>Iterative solvers for Biot model under small and large deformations</i>	http://dx.doi.org/10.1007/s10596-020-09983-0

Martin; Radu, Florin Adrian		
Boon, Wietse M.; Nordbotten, Jan M.; Vatne, Jon E.	<i>Functional analysis and exterior calculus on mixed-dimensional geometries</i>	http://dx.doi.org/10.1007/s10231-020-01013-1
Budisa, Ana; Hu, Xiaozhe	<i>Block preconditioners for mixed-dimensional discretization of flow in fractured porous media</i>	http://dx.doi.org/10.1007/s10596-020-09984-z
Illiano, Davide; Pop, Iuliu Sorin; Radu, Florin Adrian	<i>Iterative schemes for surfactant transport in porous media</i>	http://dx.doi.org/10.1007/s10596-020-09949-2
Kumar, Kundan; List, Florian; Pop, Iuliu Sorin; Radu, Florin Adrian	<i>Formal upscaling and numerical validation of unsaturated flow models in fractured porous media</i>	http://dx.doi.org/10.1016/j.jcp.2019.109138
Brun, Mats Kirkesaether; Wick, Thomas; Berre, Inga; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>An iterative staggered scheme for phase field brittle fracture propagation with stabilizing parameters</i>	http://dx.doi.org/10.1016/j.cma.2019.112752
Ye, Ruichao; Kumar, Kundan; de Hoop, Maarten, V; Campillo, Michel	<i>A multi-rate iterative coupling scheme for simulating dynamic ruptures and seismic waves generation in the prestressed earth</i>	http://dx.doi.org/10.1016/j.jcp.2019.109098
Bause, M.; Koecher, U.; Radu, F. A.; Schieweck, F.	<i>POST-PROCESSED GALERKIN APPROXIMATION OF IMPROVED ORDER FOR WAVE EQUATIONS</i>	http://dx.doi.org/10.1090/mcom/3464
Landa-Marban, David; Bodtker, Gunhild; Kumar, Kundan; Pop, Iuliu S.; Radu, Florin A.	<i>An Upscaled Model for Permeable Biofilm in a Thin Channel and Tube</i>	http://dx.doi.org/10.1007/s11242-020-01381-5
Ahmed, Elyes; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>Adaptive asynchronous time-stepping, stopping criteria, and a posteriori error estimates for fixed-stress iterative schemes for coupled poromechanics problems</i>	http://dx.doi.org/10.1016/j.cam.2019.06.028
Ambartsumyan, Ilona; Khattatov, Eldar; Nordbotten, Jan M.; Yotov, Ivan	<i>A MULTIPOINT STRESS MIXED FINITE ELEMENT METHOD FOR ELASTICITY ON SIMPLICIAL GRIDS</i>	http://dx.doi.org/10.1137/18M1229183
Bringedal, Carina; von Wolff, Lars; Pop, Iuliu Sorin	<i>PHASE FIELD MODELING OF PRECIPITATION AND DISSOLUTION PROCESSES IN POROUS MEDIA: UPSCALING AND NUMERICAL EXPERIMENTS</i>	http://dx.doi.org/10.1137/19M1239003
Budisa, Ana; Boon, Wietse M.; Hu, Xiaozhe	<i>MIXED-DIMENSIONAL AUXILIARY SPACE PRECONDITIONERS</i>	http://dx.doi.org/10.1137/19M1292618
List, Florian; Kumar, Kundan; Pop, Iuliu Sorin; Radu, Florin Adrian	<i>RIGOROUS UPSCALING OF UNSATURATED FLOW IN FRACTURED POROUS MEDIA</i>	http://dx.doi.org/10.1137/18M1203754
Gjerde, Ingeborg G.; Kumar, Kundan; Nordbotten, Jan M.	<i>A singularity removal method for coupled 1D-3D flow models</i>	http://dx.doi.org/10.1007/s10596-019-09899-4
Starnoni, M.; Berre, I.; Keilegavlen, E.; Nordbotten, J. M.	<i>Consistent MPFA Discretization for Flow in the Presence of Gravity</i>	http://dx.doi.org/10.1029/2019WR025384
Ahmed, Elyes	<i>Splitting-based domain decomposition methods for two-phase flow with different rock types</i>	http://dx.doi.org/10.1016/j.advwatres.2019.103431
Kokubun, M. A. Endo; Muntean, A.; Radu, F. A.; Kumar, K.; Pop, I. S.; Keilegavlen, E.; Spildo, K.	<i>A pore-scale study of transport of inertial particles by water in porous media</i>	http://dx.doi.org/10.1016/j.ces.2019.06.036
Berge, Runar L.; Berre, Inga; Keilegavlen, Eirik; Nordbotten, Jan M.; Wohlmuth, Barbara	<i>Finite volume discretization for poroelastic media with fractures modeled by contact mechanics</i>	http://dx.doi.org/10.1002/nme.6238
Storvik, Erlend; Both, Jakub W.; Kumar, Kundan;	<i>On the optimization of the fixed-stress splitting for Biot's equations</i>	http://dx.doi.org/10.1002/nme.6130

Nordbotten, Jan M.; Radu, Florin A.		
Berre, Inga; Doster, Florian; Keilegavlen, Eirik	<i>Flow in Fractured Porous Media: A Review of Conceptual Models and Discretization Approaches</i>	http://dx.doi.org/10.1007/s11242-018-1171-6
Gjerde, Ingeborg G.; Kumar, Kundan; Nordbotten, Jan M.; Wohlmuth, Barbara	<i>Splitting method for elliptic equations with line sources</i>	http://dx.doi.org/10.1051/m2an/2019027
Ahmed, Elyes; Fumagalli, Alessio; Budisa, Ana	<i>A multiscale flux basis for mortar mixed discretizations of reduced Darcy-Forchheimer fracture models</i>	http://dx.doi.org/10.1016/j.cma.2019.05.034
Hodneland, Erlend; Keilegavlen, Eirik; Hanson, Erik A.; Andersen, Erling; Monssen, Jan Ankar; Rorvik, Jarle; Leh, Sabine; Marti, Hans-Peter; Lundervold, Arvid; Svarstad, Einar; Nordbotten, Jan M.	<i>In Vivo Detection of Chronic Kidney Disease Using Tissue Deformation Fields From Dynamic MR Imaging</i>	http://dx.doi.org/10.1109/TBME.2018.2879362
Hodneland, Erlend; Hanson, Erik; Svareid, Ove; Naevdal, Geir; Lundervold, Arvid; Solteszova, Veronika; Munthe-Kaas, Antonella Z.; Deistung, Andreas; Reichenbach, Juergen R.; Nordbotten, Jan M.	<i>A new framework for assessing subject-specific whole brain circulation and perfusion using MRI-based measurements and a multi-scale continuous flow model</i>	http://dx.doi.org/10.1371/journal.pcbi.1007073
Liu, Na; Skauge, Tormod; Landa-Marban, David; Hovland, Beate; Thorbjornsen, Bente; Radu, Florin Adrian; Vik, Bartek Florczyk; Baumann, Thomas; Bodtker, Gunhild	<i>Microfluidic study of effects of flow velocity and nutrient concentration on biofilm accumulation and adhesive strength in the flowing and no-flowing microchannels</i>	http://dx.doi.org/10.1007/s10295-019-02161-x
Ahmed, Elyes; Radu, Florin Adrian; Nordbotten, Jan Martin	<i>Adaptive poromechanics computations based on a posteriori error estimates for fully mixed formulations of Biot's consolidation model</i>	http://dx.doi.org/10.1016/j.cma.2018.12.016
Fumagalli, Alessio; Keilegavlen, Eirik	<i>Dual Virtual Element Methods for Discrete Fracture Matrix models</i>	http://dx.doi.org/10.2516/ogst/2019008
Landa-Marban, David; Liu, Na; Pop, Iuliu S.; Kumar, Kundan; Pettersson, Per; Bodtker, Gunhild; Skauge, Tormod; Radu, Florin A.	<i>A Pore-Scale Model for Permeable Biofilm: Numerical Simulations and Laboratory Experiments</i>	http://dx.doi.org/10.1007/s11242-018-1218-8
Nordbotten, J. M.; Boon, W. M.; Fumagalli, A.; Keilegavlen, E.	<i>Unified approach to discretization of flow in fractured porous media</i>	http://dx.doi.org/10.1007/s10596-018-9778-9
Borregales, Manuel; Kumar, Kundan; Radu, Florin Adrian; Rodrigo, Carmen; Jose Gaspar, Francisco	<i>A partially parallel-in-time fixed-stress splitting method for Biot's consolidation model</i>	http://dx.doi.org/10.1016/j.camwa.2018.09.005
Both, Jakub Wiktor; Kumar, Kundan; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>Anderson accelerated fixed-stress splitting schemes for consolidation of unsaturated porous media</i>	http://dx.doi.org/10.1016/j.camwa.2018.07.033
Brun, Mats Kirkesther; Ahmed, Elyes; Nordbotten, Jan Martin; Radu, Florin Adrian	<i>Well-posedness of the fully coupled quasi-static thermo-poroelastic equations with nonlinear convective transport</i>	http://dx.doi.org/10.1016/j.jmaa.2018.10.074

Dang-Trung, H.; Yang, Dane-Jong; Liu, Y. C.	<i>Improvements in Shear Locking and Spurious Zero Energy Modes Using Chebyshev Finite Element Method</i>	http://dx.doi.org/10.1115/1.4041829
Alyaeu, Sergey; Keilegavlen, Eirik; Nordbotten, Jan M.	<i>A heterogeneous multiscale MPFA method for single-phase flows in porous media with inertial effects</i>	http://dx.doi.org/10.1007/s10596-018-9787-8
Berge, Runar Lie; Klemetsdal, Oystein Strengehagen; Lie, Knut-Andreas	<i>Unstructured Voronoi grids conforming to lower dimensional objects</i>	http://dx.doi.org/10.1007/s10596-018-9790-0
Cerroni, Daniele; Radu, Florin Adrian; Zunino, Paolo	<i>Numerical solvers for a poromechanic problem with a moving boundary</i>	http://dx.doi.org/10.3934/mine.2019.4.824
Fumagalli, Alessio; Keilegavlen, Eirik; Scialo, Stefano	<i>Conforming, non-conforming and non-matching discretization couplings in discrete fracture network simulations</i>	http://dx.doi.org/10.1016/j.jcp.2018.09.048
Kokubun, M. A. Endo; Radu, F. A.; Keilegavlen, E.; Kumar, K.; Spildo, K.	<i>Transport of Polymer Particles in Oil-Water Flow in Porous Media: Enhancing Oil Recovery</i>	http://dx.doi.org/10.1007/s11242-018-1175-2
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