

Louis J Durlowsky

List of Publications by Year in descending order

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140
papers

7,676
citations

46984

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56687

83
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142
all docs

142
docs citations

142
times ranked

3168
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | A two-stage optimization strategy for large-scale oil field development. Optimization and Engineering, 2022, 23, 361-395. | 1.3 | 9 |
| 2 | Multigroup strategy for well control optimization. Journal of Petroleum Science and Engineering, 2022, 214, 110448. | 2.1 | 7 |
| 3 | Deep-learning-based coupled flow-geomechanics surrogate model for CO2 sequestration. International Journal of Greenhouse Gas Control, 2022, 118, 103692. | 2.3 | 22 |
| 4 | Use of low-fidelity models with machine-learning error correction for well placement optimization. Computational Geosciences, 2022, 26, 1189-1206. | 1.2 | 6 |
| 5 | Effective treatment of geometric constraints in derivative-free well placement optimization. Journal of Petroleum Science and Engineering, 2022, 215, 110635. | 2.1 | 6 |
| 6 | Data-space inversion using a recurrent autoencoder for time-series parameterization. Computational Geosciences, 2021, 25, 411-432. | 1.2 | 14 |
| 7 | 3D CNN-PCA: A deep-learning-based parameterization for complex geomodels. Computers and Geosciences, 2021, 148, 104676. | 2.0 | 29 |
| 8 | Field development optimization using a sequence of surrogate treatments. Computational Geosciences, 2021, 25, 35-65. | 1.2 | 11 |
| 9 | Deep-learning-based surrogate flow modeling and geological parameterization for data assimilation in 3D subsurface flow. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113636. | 3.4 | 64 |
| 10 | A Recurrent Neural Network-Based Proxy Model for Well-Control Optimization with Nonlinear Output Constraints. SPE Journal, 2021, 26, 1837-1857. | 1.7 | 33 |
| 11 | Data-Space Inversion With a Recurrent Autoencoder for Naturally Fractured Systems. Frontiers in Applied Mathematics and Statistics, 2021, 7, . | 0.7 | 7 |
| 12 | Computational optimization of solar thermal generation with energy storage. Sustainable Energy Technologies and Assessments, 2021, 47, 101342. | 1.7 | 5 |
| 13 | Treatment of model error in subsurface flow history matching using a data-space method. Journal of Hydrology, 2021, 603, 127063. | 2.3 | 7 |
| 14 | History Matching Complex 3D Systems Using Deep-Learning-Based Surrogate Flow Modeling and CNN-PCA Geological Parameterization. , 2021, , . | | 4 |
| 15 | A data-space inversion procedure for well control optimization and closed-loop reservoir management. Computational Geosciences, 2020, 24, 361-379. | 1.2 | 15 |
| 16 | Multifidelity framework for uncertainty quantification with multiple quantities of interest. Computational Geosciences, 2020, 24, 761-773. | 1.2 | 2 |
| 17 | Well control optimization using a two-step surrogate treatment. Journal of Petroleum Science and Engineering, 2020, 187, 106565. | 2.1 | 13 |
| 18 | Reduced-Order Modeling of Coupled Flow and Quasistatic Geomechanics. SPE Journal, 2020, 25, 326-346. | 1.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Multilevel Strategies and Geological Parameterizations for History Matching Complex Reservoir Models. SPE Journal, 2020, 25, 081-104. | 1.7 | 16 |
| 20 | Deep-learning-based surrogate model for reservoir simulation with time-varying well controls. Journal of Petroleum Science and Engineering, 2020, 192, 107273. | 2.1 | 65 |
| 21 | A deep-learning-based surrogate model for data assimilation in dynamic subsurface flow problems. Journal of Computational Physics, 2020, 413, 109456. | 1.9 | 150 |
| 22 | A Deep-Learning-Based Geological Parameterization for History Matching Complex Models. Mathematical Geosciences, 2019, 51, 725-766. | 1.4 | 70 |
| 23 | Reduced-Order Modeling of Coupled Flow-Geomechanics Problems. , 2019, , . | | 3 |
| 24 | Multilevel Strategies and Geological Parameterizations for History Matching Complex Reservoir Models. , 2019, , . | | 3 |
| 25 | Implementation and detailed assessment of a GNAT reduced-order model for subsurface flow simulation. Journal of Computational Physics, 2019, 379, 192-213. | 1.9 | 20 |
| 26 | Data-space approaches for uncertainty quantification of CO2 plume location in geological carbon storage. Advances in Water Resources, 2019, 123, 234-255. | 1.7 | 32 |
| 27 | Joint Optimization of Economic Project Life and Well Controls. SPE Journal, 2018, 23, 482-497. | 1.7 | 16 |
| 28 | A General Modeling Framework for Simulating Complex Recovery Processes in Fractured Reservoirs at Different Resolutions. SPE Journal, 2018, 23, 598-613. | 1.7 | 34 |
| 29 | Reduced-order modeling of CO2 storage operations. International Journal of Greenhouse Gas Control, 2018, 68, 49-67. | 2.3 | 29 |
| 30 | Gradient-based Pareto optimal history matching for noisy data of multiple types. Computational Geosciences, 2018, 22, 1465-1485. | 1.2 | 8 |
| 31 | Machine-learning-based modeling of coarse-scale error, with application to uncertainty quantification. Computational Geosciences, 2018, 22, 1093-1113. | 1.2 | 19 |
| 32 | Optimal design and operation of integrated solar combined cycles under emissions intensity constraints. Applied Energy, 2018, 226, 979-990. | 5.1 | 25 |
| 33 | Use of reduced-order models in well control optimization. Optimization and Engineering, 2017, 18, 105-132. | 1.3 | 66 |
| 34 | Joint Optimization of Economic Project Life and Well Controls. , 2017, , . | | 0 |
| 35 | A New Data-Space Inversion Procedure for Efficient Uncertainty Quantification in Subsurface Flow Problems. Mathematical Geosciences, 2017, 49, 679-715. | 1.4 | 56 |
| 36 | Error modeling for surrogates of dynamical systems using machine learning. International Journal for Numerical Methods in Engineering, 2017, 112, 1801-1827. | 1.5 | 49 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Production forecasting and uncertainty quantification for naturally fractured reservoirs using a new data-space inversion procedure. <i>Computational Geosciences</i> , 2017, 21, 1443-1458. | 1.2 | 34 |
| 38 | Operational optimization of an integrated solar combined cycle under practical time-dependent constraints. <i>Energy</i> , 2017, 141, 1569-1584. | 4.5 | 27 |
| 39 | Multilevel Field Development Optimization Under Uncertainty Using a Sequence of Upscaled Models. <i>Mathematical Geosciences</i> , 2017, 49, 307-339. | 1.4 | 31 |
| 40 | Local-Global Upscaling for Compositional Subsurface Flow Simulation. <i>Transport in Porous Media</i> , 2016, 111, 701-730. | 1.2 | 9 |
| 41 | Assessment of advanced solvent-based post-combustion CO2 capture processes using a bi-objective optimization technique. <i>Applied Energy</i> , 2016, 179, 1209-1219. | 5.1 | 18 |
| 42 | Trajectory piecewise quadratic reduced-order model for subsurface flow, with application to PDE-constrained optimization. <i>Journal of Computational Physics</i> , 2016, 326, 446-473. | 1.9 | 44 |
| 43 | Analytical approximations for effective relative permeability in the capillary limit. <i>Water Resources Research</i> , 2016, 52, 7645-7667. | 1.7 | 27 |
| 44 | Regularized kernel PCA for the efficient parameterization of complex geological models. <i>Journal of Computational Physics</i> , 2016, 322, 859-881. | 1.9 | 43 |
| 45 | A general method to select representative models for decision making and optimization under uncertainty. <i>Computers and Geosciences</i> , 2016, 96, 109-123. | 2.0 | 63 |
| 46 | Use of above-zone pressure data to locate and quantify leaks during carbon storage operations. <i>International Journal of Greenhouse Gas Control</i> , 2016, 52, 32-43. | 2.3 | 17 |
| 47 | Upscaling for Compositional Reservoir Simulation. <i>SPE Journal</i> , 2016, 21, 0873-0887. | 1.7 | 21 |
| 48 | A new carbon capture proxy model for optimizing the design and time-varying operation of a coal-natural gas power station. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 234-252. | 2.3 | 18 |
| 49 | Ensemble level upscaling for compositional flow simulation. <i>Computational Geosciences</i> , 2016, 20, 525-540. | 1.2 | 17 |
| 50 | Closed-Loop Field Development Optimization Under Uncertainty. , 2015, , . | | 24 |
| 51 | Closed-Loop Field Development Under Uncertainty by Use of Optimization With Sample Validation. <i>SPE Journal</i> , 2015, 20, 908-922. | 1.7 | 58 |
| 52 | Developing and Validating Simplified Predictive Models for CO2 Geologic Sequestration. , 2015, , . | | 7 |
| 53 | Multilevel Field-Development Optimization Using a Sequence of Upscaled Models. , 2015, , . | | 14 |
| 54 | Optimization of carbon-capture-enabled coal-gas-solar power generation. <i>Energy</i> , 2015, 79, 149-162. | 4.5 | 39 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Upscaling for Compositional Reservoir Simulation. , 2015, , . | | 7 |
| 56 | Upscaling of CO2 injection into brine with capillary heterogeneity effects. Journal of Petroleum Science and Engineering, 2015, 134, 60-75. | 2.1 | 46 |
| 57 | Data assimilation and uncertainty assessment for complex geological models using a new PCA-based parameterization. Computational Geosciences, 2015, 19, 747-767. | 1.2 | 54 |
| 58 | Comprehensive framework for gradient-based optimization in closed-loop reservoir management. Computational Geosciences, 2015, 19, 877-897. | 1.2 | 48 |
| 59 | Fluid flow through porous sandstone with overprinting and intersecting geological structures of various types. Geological Society Special Publication, 2014, 374, 187-209. | 0.8 | 4 |
| 60 | A New Differentiable Parameterization Based on Principal Component Analysis for the Low-Dimensional Representation of Complex Geological Models. Mathematical Geosciences, 2014, 46, 775-813. | 1.4 | 103 |
| 61 | Biobjective optimization for general oil field development. Journal of Petroleum Science and Engineering, 2014, 119, 123-138. | 2.1 | 75 |
| 62 | Adjoint formulation and constraint handling for gradient-based optimization of compositional reservoir flow. Computational Geosciences, 2014, 18, 117-137. | 1.2 | 49 |
| 63 | Optimizing heat integration in a flexible coal-natural gas power station with CO2 capture. International Journal of Greenhouse Gas Control, 2014, 31, 138-152. | 2.3 | 23 |
| 64 | A derivative-free methodology with local and global search for the constrained joint optimization of well locations and controls. Computational Geosciences, 2014, 18, 463-482. | 1.2 | 138 |
| 65 | Reduced-order modeling for thermal recovery processes. Computational Geosciences, 2014, 18, 401-415. | 1.2 | 20 |
| 66 | Reduced-Order Modeling for Compositional Simulation by Use of Trajectory Piecewise Linearization. SPE Journal, 2014, 19, 858-872. | 1.7 | 63 |
| 67 | Generalized Field-Development Optimization With Derivative-Free Procedures. SPE Journal, 2014, 19, 891-908. | 1.7 | 93 |
| 68 | Reduced-order flow modeling and geological parameterization for ensemble-based data assimilation. Computers and Geosciences, 2013, 55, 54-69. | 2.0 | 47 |
| 69 | Optimal Heat Integration in a Coal-Natural Gas Energy Park with CO2 Capture. Energy Procedia, 2013, 37, 2715-2726. | 1.8 | 3 |
| 70 | Optimization of shale gas field development using direct search techniques and reduced-physics models. Journal of Petroleum Science and Engineering, 2013, 108, 304-315. | 2.1 | 66 |
| 71 | Generalized Field Development Optimization Using Derivative-Free Procedures. , 2013, , . | | 21 |
| 72 | Reduced-Order Modeling for Compositional Simulation Using Trajectory Piecewise Linearization. , 2013, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Optimal Well Placement Under Uncertainty Using a Retrospective Optimization Framework. SPE Journal, 2012, 17, 112-121. | 1.7 | 108 |
| 74 | Joint optimization of oil well placement and controls. Computational Geosciences, 2012, 16, 1061-1079. | 1.2 | 141 |
| 75 | A fully-coupled flow-reactive-transport formulation based on element conservation, with application to CO2 storage simulations. Advances in Water Resources, 2012, 42, 47-61. | 1.7 | 46 |
| 76 | Optimization of well placement, CO2 injection rates, and brine cycling for geological carbon sequestration. International Journal of Greenhouse Gas Control, 2012, 10, 100-112. | 2.3 | 63 |
| 77 | Uncertainty Quantification for Subsurface Flow Problems Using Coarse-Scale Models. Lecture Notes in Computational Science and Engineering, 2012, , 163-202. | 0.1 | 30 |
| 78 | New models for heater wells in subsurface simulations, with application to the in situ upgrading of oil shale. Computational Geosciences, 2012, 16, 519-533. | 1.2 | 16 |
| 79 | Near-well upscaling for three-phase flows. Computational Geosciences, 2012, 16, 55-73. | 1.2 | 13 |
| 80 | Use of outcrop observations, geostatistical analysis, and flow simulation to investigate structural controls on secondary hydrocarbon migration in the Anacacho Limestone, Uvalde, Texas. AAPG Bulletin, 2011, 95, 1181-1206. | 0.7 | 17 |
| 81 | Application of derivative-free methodologies to generally constrained oil production optimisation problems. International Journal of Mathematical Modelling and Numerical Optimisation, 2011, 2, 134. | 0.1 | 57 |
| 82 | Use of Approximate Dynamic Programming for Production Optimization. , 2011, , . | | 6 |
| 83 | Optimal Well Placement under Uncertainty using a Retrospective Optimization Framework. , 2011, , . | | 15 |
| 84 | Enhanced linearized reduced-order models for subsurface flow simulation. Journal of Computational Physics, 2011, 230, 8313-8341. | 1.9 | 64 |
| 85 | Optimal operation of an integrated energy system including fossil fuel power generation, CO2 capture and wind. Energy, 2011, 36, 6806-6820. | 4.5 | 69 |
| 86 | Statistical assignment of upscaled flow functions for an ensemble of geological models. Computational Geosciences, 2011, 15, 35-51. | 1.2 | 17 |
| 87 | A multi-resolution workflow to generate high-resolution models constrained to dynamic data. Computational Geosciences, 2011, 15, 545-563. | 1.2 | 18 |
| 88 | Derivative-Free Optimization for Oil Field Operations. Studies in Computational Intelligence, 2011, , 19-55. | 0.7 | 31 |
| 89 | From outcrop to flow simulation: Constructing discrete fracture models from a LIDAR survey. AAPG Bulletin, 2011, 95, 1883-1905. | 0.7 | 54 |
| 90 | Global variable compact multipoint methods for accurate upscaling with full-tensor effects. Computational Geosciences, 2010, 14, 65-81. | 1.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Application of a particle swarm optimization algorithm for determining optimum well location and type. Computational Geosciences, 2010, 14, 183-198. | 1.2 | 367 |
| 92 | Accurate Representation of Near-well Effects in Coarse-Scale Models of Primary Oil Production. Transport in Porous Media, 2010, 83, 741-770. | 1.2 | 18 |
| 93 | Linearized reduced-order models for subsurface flow simulation. Journal of Computational Physics, 2010, 229, 681-700. | 1.9 | 110 |
| 94 | Use of retrospective optimization for placement of oil wells under uncertainty. , 2010, , . | | 7 |
| 95 | Multiscale Mixed-Finite-Element Modeling of Coupled Wellbore/Near-Well Flow. SPE Journal, 2009, 14, 78-87. | 1.7 | 7 |
| 96 | Use of Reduced-Order Modeling Procedures for Production Optimization. , 2009, , . | | 6 |
| 97 | Detailed Near-Well Darcy-Forchheimer Flow Modeling and Upscaling on Unstructured 3D Grids. , 2009, , . | | 3 |
| 98 | Adaptive Local-Global VCMP Methods for Coarse-Scale Reservoir Modeling. , 2009, , . | | 6 |
| 99 | Nonlinear two-point flux approximation for modeling full-tensor effects in subsurface flow simulations. Computational Geosciences, 2008, 12, 317-335. | 1.2 | 38 |
| 100 | Kernel Principal Component Analysis for Efficient, Differentiable Parameterization of Multipoint Geostatistics. Mathematical Geosciences, 2008, 40, 3-32. | 1.4 | 188 |
| 101 | Ensemble-Level Upscaling for Efficient Estimation of Fine-Scale Production Statistics. SPE Journal, 2008, 13, 400-411. | 1.7 | 26 |
| 102 | Upscaling Discrete Fracture Characterizations to Dual-Porosity, Dual-Permeability Models for Efficient Simulation of Flow With Strong Gravitational Effects. SPE Journal, 2008, 13, 58-67. | 1.7 | 120 |
| 103 | Production Optimization With Adjoint Models Under Nonlinear Control-State Path Inequality Constraints. SPE Reservoir Evaluation and Engineering, 2008, 11, 326-339. | 1.1 | 109 |
| 104 | A New Approach to Automatic History Matching Using Kernel PCA. , 2007, , . | | 42 |
| 105 | Permeability upscaling of fault zones in the Aztec Sandstone, Valley of Fire State Park, Nevada, with a focus on slip surfaces and slip bands. Hydrogeology Journal, 2007, 15, 1239-1250. | 0.9 | 21 |
| 106 | Efficient Incorporation of Global Effects in Upscaled Models of Two-Phase Flow and Transport in Heterogeneous Formations. Multiscale Modeling and Simulation, 2006, 5, 445-475. | 0.6 | 31 |
| 107 | Efficient 3D Implementation of Local-Global Upscaling for Reservoir Simulation. SPE Journal, 2006, 11, 443-453. | 1.7 | 40 |
| 108 | Sequentially Adapted Flow-Based PEBI Grids for Reservoir Simulation. SPE Journal, 2006, 11, 317-327. | 1.7 | 45 |

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| 109 | Unstructured grid optimization for improved monotonicity of discrete solutions of elliptic equations with highly anisotropic coefficients. <i>Journal of Computational Physics</i> , 2006, 216, 337-361. | 1.9 | 66 |
| 110 | Adaptive Local-Global Upscaling for General Flow Scenarios in Heterogeneous Formations. <i>Transport in Porous Media</i> , 2006, 62, 157-185. | 1.2 | 171 |
| 111 | Efficient real-time reservoir management using adjoint-based optimal control and model updating. <i>Computational Geosciences</i> , 2006, 10, 3-36. | 1.2 | 231 |
| 112 | Optimization of nonconventional wells under uncertainty using statistical proxies. <i>Computational Geosciences</i> , 2006, 10, 389-404. | 1.2 | 91 |
| 113 | Two-Stage Upscaling of Two-Phase Flow: From Core to Simulation Scale. <i>SPE Journal</i> , 2006, 11, 304-316. | 1.7 | 45 |
| 114 | Development and Application of a New Technique for Upscaling Miscible Displacements. <i>SPE Reservoir Evaluation and Engineering</i> , 2005, 8, 189-195. | 1.1 | 12 |
| 115 | Efficient Closed-loop Production Optimization Under Uncertainty. , 2005, , . | | 42 |
| 116 | Drift-Flux Parameters for Three-Phase Steady-State Flow in Wellbores. <i>SPE Journal</i> , 2005, 10, 130-137. | 1.7 | 78 |
| 117 | Optimizing the performance of smart wells in complex reservoirs using continuously updated geological models. <i>Journal of Petroleum Science and Engineering</i> , 2005, 48, 254-264. | 2.1 | 65 |
| 118 | Unstructured 3D gridding and upscaling for coarse modelling of geometrically complex reservoirs. <i>Petroleum Geoscience</i> , 2005, 11, 339-345. | 0.9 | 61 |
| 119 | Drift-Flux Modeling of Two-Phase Flow in Wellbores. <i>SPE Journal</i> , 2005, 10, 24-33. | 1.7 | 210 |
| 120 | MODELING FLUID FLOW IN OIL RESERVOIRS. <i>Annual Review of Fluid Mechanics</i> , 2005, 37, 211-238. | 10.8 | 211 |
| 121 | Upscaled models of flow and transport in faulted sandstone: boundary condition effects and explicit fracture modelling. <i>Petroleum Geoscience</i> , 2004, 10, 173-181. | 0.9 | 32 |
| 122 | Development and Application of a New Technique for Upscaling Miscible Processes. , 2004, , . | | 3 |
| 123 | Accurate Subgrid Models for Two-Phase Flow in Heterogeneous Reservoirs. <i>SPE Journal</i> , 2004, 9, 219-226. | 1.7 | 26 |
| 124 | Calculation of Well Index for Nonconventional Wells on Arbitrary Grids. <i>Computational Geosciences</i> , 2003, 7, 61-82. | 1.2 | 39 |
| 125 | Optimization of Nonconventional Well Type, Location, and Trajectory. <i>SPE Journal</i> , 2003, 8, 200-210. | 1.7 | 252 |
| 126 | Modeling Flow in Geometrically Complex Reservoirs Using Hexahedral Multiblock Grids. <i>SPE Journal</i> , 2002, 7, 149-157. | 1.7 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Title is missing!. Computational Geosciences, 2002, 6, 29-47. | 1.2 | 12 |
| 128 | Approximate Finite Difference Modeling of the Performance of Horizontal Wells in Heterogeneous Reservoirs. , 2000, , . | | 3 |
| 129 | An Approximate Model for Well Productivity in Heterogeneous Porous Media. Mathematical Geosciences, 2000, 32, 421-438. | 0.9 | 30 |
| 130 | Use of Higher Moments for the Description of Upscaled, Process Independent Relative Permeabilities. SPE Journal, 1997, 2, 474-484. | 1.7 | 30 |
| 131 | A nonuniform coarsening approach for the scale-up of displacement processes in heterogeneous porous media. Advances in Water Resources, 1997, 20, 335-347. | 1.7 | 170 |
| 132 | Accuracy of mixed and control volume finite element approximations to Darcy velocity and related quantities. Water Resources Research, 1994, 30, 965-973. | 1.7 | 175 |
| 133 | A Triangle Based Mixed Finite Element-Finite Volume Technique for Modeling Two Phase Flow through Porous Media. Journal of Computational Physics, 1993, 105, 252-266. | 1.9 | 150 |
| 134 | Modeling Fluid Flow Through Complex Reservoir Beds. SPE Formation Evaluation, 1992, 7, 315-322. | 0.5 | 24 |
| 135 | Representation of grid block permeability in coarse scale models of randomly heterogeneous porous media. Water Resources Research, 1992, 28, 1791-1800. | 1.7 | 59 |
| 136 | Triangle based adaptive stencils for the solution of hyperbolic conservation laws. Journal of Computational Physics, 1992, 98, 64-73. | 1.9 | 130 |
| 137 | Numerical calculation of equivalent grid block permeability tensors for heterogeneous porous media. Water Resources Research, 1991, 27, 699-708. | 1.7 | 658 |
| 138 | Dynamic simulation of bounded suspensions of hydrodynamically interacting particles. Journal of Fluid Mechanics, 1989, 200, 39-67. | 1.4 | 91 |
| 139 | The sedimentation rate of disordered suspensions. Physics of Fluids, 1988, 31, 717. | 1.4 | 102 |
| 140 | On rotating disk flow. Journal of Fluid Mechanics, 1987, 175, 363. | 1.4 | 107 |