

# Rostislav Vodňák

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8031609/publications.pdf>

Version: 2024-02-01

9  
papers

42  
citations

1937685

4  
h-index

1720034

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g-index

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all docs

10  
docs citations

10  
times ranked

47  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the incompatibility of Richards' equation and finger-like infiltration in unsaturated homogeneous porous media. <i>Water Resources Research</i> , 2009, 45, .	4.2	19
2	A semi-continuum model of saturation overshoot in one dimensional unsaturated porous media flow. <i>Scientific Reports</i> , 2019, 9, 8390.	3.3	6
3	Behaviour of weak solutions of compressible Navier-Stokes equations for isothermal fluids with a nonlinear stress tensor. <i>Journal of Evolution Equations</i> , 2004, 4, 213.	1.1	5
4	Asymptotic Analysis of Steady and Nonsteady Navier-Stokes Equations for Barotropic Compressible Flow. <i>Acta Applicandae Mathematicae</i> , 2010, 110, 991-1009.	1.0	5
5	Measurement of saturation overshoot under grass cover. <i>Biologia (Poland)</i> , 2020, 75, 841-849.	1.5	3
6	Justification of Asymptotic Two-dimensional Model for Steady Navier-Stokes Equations for Incompressible Flow. <i>Acta Applicandae Mathematicae</i> , 2010, 112, 21-33.	1.0	1
7	Compressible Nonlinearly Viscous Fluids: Asymptotic Analysis in a 3D Curved Domain. <i>Journal of Mathematical Fluid Mechanics</i> , 2019, 21, 1.	1.0	1
8	Asymptotic analysis of three dimensional Navier-Stokes equations for compressible nonlinearly viscous fluids. <i>Dynamics of Partial Differential Equations</i> , 2008, 5, 29-311.	0.9	1
9	Mathematical Analysis of an Approximation Model for a Spherical Cloud of Cavitation Bubbles. <i>Acta Applicandae Mathematicae</i> , 2018, 154, 43-57.	1.0	0