

LIST OF PUBLICATIONS

Books in international publishers

1. **M. Kohr**, I. Pop, *Viscous Incompressible Flow for Low Reynolds Numbers*, WIT Press: Computational Mechanics Publications, Southampton (UK), Boston, 2004, 448 pp. ISBN: 1-85312-991-7.
2. **M. Kohr**, S.E. Mikhailov, V. Nistor, W.L. Wendland, *Stationary Stokes and Navier-Stokes Equations with Variable Coefficients*, Springer Nature, Cham, Switzerland. Accepted for publication, 2024.

Books in Romanian publishers

1. **M. Kohr**, *Modern Problems in Viscous Fluid Mechanics* (2 vols), Cluj University Press, 2000 (in Romanian):
vol.1, 255 pp. ISBN 973-595-077-4
vol.2, 452 pp. ISBN 973-595-078-2.
2. **M. Kohr**, *The Study of Some Viscous Fluid Flows by Boundary Integral Methods*, Cluj University Press, Cluj-Napoca, 1997, 346 pp. ISBN 973-9261-38-8 (in Romanian).

Textbooks

1. **M. Kohr**, *Special Chapters of Mechanics*, Cluj University Press, 2005, 479 pp. ISBN: 973-610-386-2 (in Romanian).
2. A. Turcu, **M. Kohr-Ile**, *Problems in Theoretical Mechanics*, Lito. Univ. Babeş-Bolyai, Cluj-Napoca, 1993, 342 pp. (in Romanian).

Relevant scientific papers (selective list)

ISI publications

1. I. Graham, H. Hamada, **G. Kohr**, **M. Kohr**, *Loewner PDE in Infinite Dimensions*, [Computational Methods and Function Theory](#), **25** (2025), 151–171.
2. **M. Kohr**, V. Nistor, W.L. Wendland, *The Stokes operator on manifolds with cylindrical ends*, [Journal of Differential Equations](#), **407** (2024), 345–373.
3. N. Grosse, **M. Kohr**, V. Nistor, *The L^2 -unique continuation property on manifolds with bounded geometry and the deformation operator*, [Forum Mathematicum](#), to appear.
4. **M. Kohr**, R. Precup, *Localization of energies in Navier-Stokes models with reaction terms*, [Analysis and Applications](#), **22** (2024), 1053–1073.
5. **M. Kohr**, R. Precup, *Analysis of Navier-Stokes models for flows in bidisperse porous media*, [Journal of Mathematical Fluid Mechanics](#), **25**:38 (2023), 16 pages.
6. I. Graham, H. Hamada, **G. Kohr**, **M. Kohr**, *Fekete-Szegő problem for univalent mappings in one and higher dimensions*, [Journal of Mathematical Analysis and Applications](#), **516**:126526 (2022), 22 pages.
7. **M. Kohr**, V. Nistor, *Sobolev spaces and ∇ -differential operators on manifolds I: basic properties and weighted spaces*, [Annals of Global Analysis and Geometry](#), **61** (2022), 721–758.
8. I. Graham, H. Hamada, **G. Kohr**, **M. Kohr**, *g -Loewner chains, Bloch functions and extension operators into the family of locally biholomorphic mappings in infinite dimensional spaces*, [Stud. Univ. Babeş-Bolyai Math.](#), 67 (2022), No. 2, 219–236.

9. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Non-homogeneous Dirichlet-transmission problems for the anisotropic Stokes and Navier-Stokes systems in Lipschitz domains with transversal interfaces*, [Calculus of Variations and Partial Differential Equations](#), **61**:198 (2022), 47 pages.
10. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *On some mixed-transmission problems for the anisotropic Stokes and Navier-Stokes systems in Lipschitz domains with transversal interfaces*, [Journal of Mathematical Analysis and Applications](#), **516**:126464 (2022), 28 pag.
11. H. Hamada, **G. Kohr**, **M. Kohr**, *The Fekete-Szegő problem for starlike mappings and nonlinear resolvents of the Carathéodory family on the unit balls of complex Banach spaces*, [Analysis and Mathematical Physics](#), **11**:115 (2021), 1–22.
12. **M. Kohr**, S. Labrunie, H. Mohsen, V. Nistor, *Polynomial estimates for solutions of parametric elliptic equations on complete manifolds*, [Stud. Univ. Babeş-Bolyai Math.](#), **67** (2022), No. 2, 369–382.
13. I. Graham, H. Hamada, **G. Kohr**, **M. Kohr**, *g -Loewner chains, Bloch functions and extension operators in complex Banach spaces*, [Analysis and Mathematical Physics](#), **10**:5 (2020), 28 pag., doi.org/10.1007/s13324-019-00352-4.
14. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Dirichlet and transmission problems for anisotropic Stokes and Navier-Stokes systems with L_∞ tensor coefficient under relaxed ellipticity condition*, [Discrete and Continuous Dynamical Systems](#), **41** (2021), 4421–4460.
15. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Layer potential theory for the anisotropic Stokes system with variable L_∞ symmetrically elliptic tensor coefficient*, [Mathematical Methods in the Applied Sciences](#), **44** (2021), 9641–9674.
16. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Potentials and transmission problems in weighted Sobolev spaces for anisotropic Stokes and Navier–Stokes systems with L_∞ strongly elliptic coefficient tensor*, [Complex Variables and Elliptic Equations](#), **65** (2020), 109–140.
17. **M. Kohr**, W.L. Wendland, *Boundary value problems for the Brinkman system with L^∞ coefficients in Lipschitz domains on compact Riemannian manifolds. A variational approach*, [Journal de Mathématiques Pures et Appliquées](#), **131** (2019), 17–63.
18. **M. Kohr**, W.L. Wendland, *Variational approach for the Stokes and Navier-Stokes systems with nonsmooth coefficients in Lipschitz domains on compact Riemannian manifolds*, [Calculus of Variations and Partial Differential Equations](#), **57**:165 (2018), 1-41.
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20. **M. Kohr**, W.L. Wendland, *Layer potentials and Poisson problems for the nonsmooth coefficient Brinkman system in Sobolev and Besov spaces*, [Journal of Mathematical Fluid Mechanics](#), **20** (2018), 1921–1965.
21. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Transmission problems for the Navier-Stokes and Darcy-Forchheimer-Brinkman systems in Lipschitz domains on compact Riemannian manifolds*, [Journal of Mathematical Fluid Mechanics](#), **19** (2017), 203-238.
22. **M. Kohr**, M. Lanza de Cristoforis, S.E. Mikhailov, W.L. Wendland, *Integral potential method for transmission problem with Lipschitz interface in \mathbb{R}^3 for the Stokes and Darcy-Forchheimer-Brinkman PDE systems*, [Zeitschrift für Angewandte Mathematik und Physik](#), **67**:116, no. 5, 1-30, 2016.

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25. **M. Kohr**, M. Lanza de Cristoforis, W.L. Wendland, *On the Robin-transmission boundary value problems for the nonlinear Darcy-Forchheimer-Brinkman and Navier-Stokes systems*, [Journal of Mathematical Fluid Mechanics](#), **18** (2016), 293-329.
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27. R. Gutt, **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *On the mixed problem for the semilinear Darcy-Forchheimer-Brinkman PDE system in Besov spaces on creased Lipschitz domains*, [Mathematical Methods in the Applied Sciences](#), **40** (2017), 7780-7829.
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32. **M. Kohr**, C. Pinteá, W.L. Wendland, *Poisson-transmission problems for L^∞ perturbations of the Stokes system on Lipschitz domains in compact Riemannian manifolds*, [Journal of Dynamics and Differential Equations](#), **27** (2015), 823-839.
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34. **M. Kohr**, C. Pinteá, W.L. Wendland, *Layer potential analysis for pseudodifferential matrix operators in Lipschitz domains on compact Riemannian manifolds: Applications to pseudodifferential Brinkman operators*, [International Mathematics Research Notices](#), **2013**, No. 19, 4499-4588.
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37. **M. Kohr**, C. Pinteá, W.L. Wendland, *Dirichlet-transmission problems for pseudodifferential Brinkman operators on Sobolev and Besov spaces associated to Lipschitz domains in Riemannian manifolds*, [ZAMM - Zeitschrift für Angewandte Mathematik und Mechanik](#), **93** (2013), No. 6-7, 446-458.
38. D. Fericean, T. Groşan, **M. Kohr**, W.L. Wendland, *Interface boundary value problems of Robin-transmission type for the Stokes and Brinkman systems on n -dimensional Lipschitz domains. Applications*, [Mathematical Methods in the Applied Sciences](#), **36** (2013), 1631-1648.

39. **M. Kohr**, C. Pinteá, W.L. Wendland, *Neumann-transmission problems for pseudodifferential Brinkman operators on Lipschitz domains in compact Riemannian manifolds*, [Communications on Pure and Applied Analysis](#), **13** (2014), 175-202.
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44. P. Curt, G. Kohr, **M. Kohr**, *Homeomorphic extension of strongly spirallike mappings in \mathbb{C}^n* , [Science China Mathematics](#), **53** (2010), No.1, 87-100.
45. **M. Kohr**, G.P. Raja Sekhar, W.L. Wendland, *Rigorous estimates for the 2D Oseen-Brinkman transmission problem in terms of the Stokes-Brinkman expansion*, [Mathematical Methods in the Applied Sciences](#), **33** (2010), No. 18, 2225-2239.
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47. J. Prakash, G.P. Raja Sekhar, **M. Kohr**, *Stokes flow of an assemblage of porous particles-stress jump condition*, [Z. Angew. Math. Phys.](#), **62** (2011), 1027-1046.
48. **M. Kohr**, W.L. Wendland, *Boundary integral equations for a three-dimensional Brinkman flow problem*, [Mathematische Nachrichten](#), **282** (2009), No. 9, 1305-1333.
49. **M. Kohr**, W.L. Wendland, G.P. Raja Sekhar, *Boundary integral equations for two-dimensional low Reynolds number flow past a porous body*, [Mathematical Methods in the Applied Sciences](#), **32** (2009), No.8, 922-962.
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54. **M. Kohr**, G.P. Raja Sekhar, W.L. Wendland, *Boundary integral method for Stokes flow past a porous body*, [Mathematical Methods in the Applied Sciences](#), **31**(9) (2008), 1065-1097.
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58. **M. Kohr**, *The interior Neumann problem for the Stokes resolvent system in a bounded domain in \mathbb{R}^n* , [Archives of Mechanics](#), 59(2007), No.3, 283-304.
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60. **M. Kohr**, *Boundary value problems for a compressible Stokes system in bounded domains in \mathbb{R}^n* , [Journal of Computational and Applied Mathematics](#), **201** (2007), No. 1, 128-145.
61. **M. Kohr**, *The Dirichlet problems for the Stokes resolvent equations in bounded and exterior domains in \mathbb{R}^n* , [Mathematische Nachrichten](#), **280** (2007), No. 56, 534-559.
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67. **M. Ile-Kohr**, I. Stan, Z. Kasa, *Numerical analysis for tension gradient flow on the liquid obstacles*, [ZAMM - Zeitschrift für Angewandte Mathematik und Mechanik](#), vol.75, 337-338, 1995. ISSN 0044-2267

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68. **M. Kohr**, W.L. Wendland, *Variational boundary integral equations for the Stokes system*, [Applicable Analysis](#), 85(2006), no. 11, 1343-1372.
69. **M. Kohr**, *Existence and uniqueness result for Stokes flows in a half-plane*, [Archives of Mechanics](#), **50**, No.4, 791-803, 1998.
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71. **M. Kohr**, *Boundary element method to the study of a Stokes flow past an obstacle in a channel*, [Archives of Mechanics](#), **49**, No.1, 129-142, 1997.
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Chapters/articles in books/proceedings

1. **M. Kohr**, V. Nistor, W.L. Wendland, *Layer potentials and essentially translation invariant pseudodifferential operators on manifolds with cylindrical ends*, in: Postpandemic Operator Theory, Conference Proceedings of OT28 (Timișoara, June 27-July 1, 2022), 61-116, 2024, Theta Series in Advanced Mathematics (D. Gașpar, W.T. Ross, D. Timotin, F-H. Vasilescu eds), ISBN 978-606-8443-13-3.
2. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Newtonian and single layer potentials for the Stokes system with L_∞ coefficients and the exterior Dirichlet problem*, in: Analysis as a Life. Dedicated to Prof. H.Begehr. S. Rogosin and A.O. Çelebi, eds. Springer (Birkhüauser), ISBN 978-3-030-02650-9, (2019), 237-260.
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8. **M. Kohr**, *A boundary integral method for an oscillatory Stokes flow past two bodies*, *Proceedings of the 3rd International ISAAC Congress*, Berlin, 2001, World Sci. Publ., 2003, 1215-1222. ISBN 981-238-572-X

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2. G.P. Raja Sekhar, J. Prakash, **M. Kohr**, *Steady and oscillatory analysis of porous catalysts in fluidized beds*, Proceedings in Applied Mathematics and Mechanics (PAMM), 8(2008), no.1, 10613-10614.
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1. **M. Kohr**, C. Pinteă, W.L. Wendland, *On mapping properties of layer potential operators for Brinkman equations on Lipschitz domains in Riemannian manifolds*, Mathematica (Cluj), 52(75), no. 1 (2010), 31-45.
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1. **M. Kohr**, G.P. Raja Sekhar, W.L. Wendland, *Rigorous estimates for the 2D Oseen-Brinkman transmission problem in terms of the Stokes-Brinkman expansion*, *Berichte aus dem Institut für Angewandte Analysis und Numerische Simulation, Universität Stuttgart, Germany, Preprint 2009/010, 20 pp.*
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3. **M. Kohr**, W.L. Wendland, *The application of a fast multipole Galerkin boundary element method for the Stokes system*, *Bericht 2006/03 SFB404, Universität Stuttgart, Germany, 34 pp.*