

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.

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](#), to appear.
2. **M. Kohr**, R. Precup, *Localization of energies in Navier-Stokes models with reaction terms*, [Analysis and Applications](#), to appear.
3. **M. Kohr**, R. Precup, *Analysis of Navier-Stokes models for flows in bidisperse porous media*, [Journal of Mathematical Fluid Mechanics](#), **25**:38 (2023) doi.org/10.1007/s00021-023-00784-w.
4. 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 pag.
5. **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.
6. 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.
7. **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 pag.

8. **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.
9. H. Hamada, **G. Kohr**, **M. Kohr**, *The Fekete-Szegő problem for starlike mappings and non-linear resolvents of the Carathéodory family on the unit balls of complex Banach spaces*, [Analysis and Mathematical Physics](#), **11**:115 (2021), 1–22.
10. **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.
11. 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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.
17. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Bounded support points for mappings with g -parametric representation in C^2* , [Journal of Mathematical Analysis and Applications](#), **454** (2017), 1085–1105.
18. **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.
19. **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.
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22. **M. Kohr**, D. Medková, W.L. Wendland, *On the Oseen-Brinkman flow around an $(m - 1)$ -dimensional solid obstacle*, [Monatshefte für Mathematik](#), **183** (2017), 269-302.

23. **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.
24. **M. Kohr**, P. Curt, *Some geometrical properties of free boundaries in the Hele-Shaw flows*, [Applied Mathematics and Computation](#), **323** (2018), 86–94.
25. 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.
26. **M. Kohr**, C. Pinteá, *On a Hele-Shaw flow problem with free and solid boundary components*, [Complex Analysis and Operator Theory](#), **11** (2017), 1729-1746.
27. **M. Kohr**, M. Lanza de Cristoforis, W.L. Wendland, *Poisson problems for semilinear Brinkman systems on Lipschitz domains in \mathbb{R}^n* , [Zeitschrift für Angewandte Mathematik und Physik](#), **66** (2015), 833-864.
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29. **M. Kohr**, M. Lanza de Cristoforis, W.L. Wendland, *Boundary value problems of Robin type for the Brinkman and Darcy-Forchheimer-Brinkman systems in Lipschitz domains*, [Journal of Mathematical Fluid Mechanics](#), **16** (2014), 595-630.
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32. **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.
33. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Asymptotically spirallike mappings in reflexive complex Banach spaces*, [Complex Analysis and Operator Theory](#) **7** (2013), 1909-1927.
34. T. Groşan, **M. Kohr**, W.L. Wendland, *Dirichlet problem for a nonlinear generalized Darcy-Forchheimer-Brinkman system in Lipschitz domains*, [Mathematical Methods in the Applied Sciences](#), **38** (2015), 3615–3628.
35. **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.
36. 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.
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42. 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.
43. **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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45. 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.
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55. **M. Kohr**, G.P. Raja Sekhar, *Existence and uniqueness result for the problem of viscous flow in a granular material with a void*, [Quarterly of Applied Mathematics](#), **65** (2007), 683-704.

56. **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.
57. **M. Kohr**, G.P. Raja Sekhar, *Existence and uniqueness result for two-dimensional porous media flows with porous inclusions based on Brinkman equation*, [Engineering Analysis with Boundary Elements](#), **31** (2007), No.7, 604613.
58. **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.
59. **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.
60. **M. Kohr**, *A mixed boundary value problem for the unsteady Stokes system in a bounded domain in \mathbb{R}^n* , [Engineering Analysis with Boundary Elements](#), **29** (2005), No. 10, 936-943.
61. I. Graham, G. Kohr, **M. Kohr**, *Loewner chains and parametric representation in several complex variables*, [Journal of Mathematical Analysis and Applications](#), **281** (2003), 425-438.
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63. **M. Kohr**, *An indirect boundary integral method for a Stokes flow problem*, [Computer Methods in Applied Mechanics and Engineering](#), **190** (2000), No.5-7, 487-497.
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65. **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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66. **M. Kohr**, W.L. Wendland, *Variational boundary integral equations for the Stokes system*, [Applicable Analysis](#), 85(2006), no. 11, 1343-1372.
67. **M. Kohr**, *Existence and uniqueness result for Stokes flows in a half-plane*, [Archives of Mechanics](#), **50**, No.4, 791-803, 1998.
68. **M. Kohr**, *A boundary integral equations method for asymmetric Stokes flow between two parallel planes*, [Archives of Mechanics](#), **49**, No.6, 1167-1185, 1997.
69. **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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1. **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 (Birkhäuser), ISBN 978-3-030-02650-9, (2019), 237-260.

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3. **M. Kohr**, M. Lanza de Cristoforis, W. L. Wendland, *Nonlinear Darcy-Forchheimer-Brinkman system with linear Robin boundary conditions in Lipschitz domains*, in Complex Analysis and Potential Theory (T. Aliev Azeroglu, A.Golberg, S.Rogosin eds.), 111–124, Cambridge Scientific Publishers, 2014. ISBN 978-1-908106-40-7
4. **M. Kohr**, C. Pinteá, *On the invertibility of some elliptic operators on manifolds with boundary and cylindrical ends*, in: "Topics in Mathematical Analysis and Applications", Springer volume, **94** (2014), 483-500, Editors: Th. M. Rassias, L. Toth.
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7. **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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7. **M. Kohr**, *A second kind integral equation formulation for the interaction between a solid particle and a compound drop at low Reynolds number*, Applied Mechanics and Engineering, vol.5, nr.3, 557-577, 2000. Zbl 0980.76015
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1. **M. Kohr**, C. Pinteau, 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.
2. **M. Kohr**, W.L. Wendland, *Boundary integral equations for a three-dimensional Brinkman flow problem*, Berichte aus dem Institut für Angewandte Analysis und Numerische Simulation, Preprint 2007/007, Universität Stuttgart, Germany, 38 pp., ISSN 1611-4176.
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