

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. **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](#), doi.org/10.1016/j.matpur.2019.04.002, to appear.
2. **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.
3. **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](#), doi:10.1080/17476933.2019.1631293, to appear.
4. **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.
5. 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.
6. **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.

7. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Support points and extreme points for mappings with A -parametric representation in \mathbb{C}^n* , [Journal of Geometric Analysis](#), **26** (2016), 1560-1595.
8. **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.
9. **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.
10. **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.
11. **M. Kohr**, P. Curt, *Some geometrical properties of free boundaries in the Hele-Shaw flows*, [Applied Mathematics and Computation](#), **323** (2018), 86–94.
12. 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.
13. **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.
14. **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.
15. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Extremal properties associated with univalent subordination chains in \mathbb{C}^n* , [Mathematische Annalen](#), **359** (2014), 61-99.
16. **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.
17. **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.
18. **M. Kohr**, M. Lanza de Cristoforis, W.L. Wendland, *Nonlinear Neumann-transmission problems for Stokes and Brinkman equations on Euclidean Lipschitz domains*, [Potential Analysis](#), **38** (2013), 1123-1171.
19. **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.
20. 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.
21. 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.
22. **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.

23. 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.
24. **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.
25. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Extreme points, support points and the Loewner variation in several complex variables*, [Sci. China Math.](#), **55** (2012), no.7, 1353-1366.
26. **M. Kohr**, C. Pinteá, W.L. Wendland, *Dirichlet - transmission problems for general Brinkman operators on Lipschitz and C^1 domains in Riemannian manifolds*, [Discrete and Continuous Dynamical Systems B](#), **15** (2011), no.4, 999-1018.
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28. **M. Kohr**, C. Pinteá, W.L. Wendland, *Brinkman-type operators on Riemannian manifolds: Transmission Problems in Lipschitz and C^1 domains*, [Potential Analysis](#), **32** (2010), 229-273.
29. 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.
30. **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.
31. **M. Kohr**, G.P. Raja Sekhar, M.E. Ului, W.L. Wendland, *Two-dimensional Stokes-Brinkman cell model - A boundary integral formulation*, [Applicable Analysis](#), **91** (2012), 251-275.
32. 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.
33. **M. Kohr**, W.L. Wendland, *Boundary integral equations for a three-dimensional Brinkman flow problem*, [Mathematische Nachrichten](#), **282** (2009), No. 9, 1305-1333.
34. **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.
35. **M. Kohr**, G.P. Raja Sekhar, W.L. Wendland, *Boundary integral equations for a three-dimensional Stokes-Brinkman cell model*, [Mathematical Models and Methods in Applied Sciences](#), **18** (2008), No.12, 2055-2085.
36. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Spirallike mappings and univalent subordination chains in \mathbb{C}^n* , [Annali della Scuola Normale Superiore di Pisa, Classe di Scienze](#), **7** (2008), No. 4, 717-740.
37. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Asymptotically spirallike mappings in several complex variables*, [Journal d' Analyse Mathématique](#), **105** (2008), 267-302.
38. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Parametric representation and asymptotic starlikeness in \mathbb{C}^n* , [Proceedings of the American Mathematical Society](#), **136** (2008), 3963-3973.
39. **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.

40. **M. Kohr**, G.P. Raja Sekhar, J.R. Blake, *Green's function of the Brinkman equation in a 2D anisotropic case*, [IMA Journal of Applied Mathematics](#), **73**(2)(2008), 374-392.
41. **M. Kohr**, J. Prakash, G.P. Raja Sekhar, W.L. Wendland, *Expansions at small Reynolds numbers for the flow past a porous circular cylinder*, [Applicable Analysis](#), **88** (2009), 1093-1114.
42. **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.
43. **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.
44. **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.
45. **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.
46. **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.
47. **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.
48. 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.
49. **M. Kohr**, *Boundary integral method for a Stokes flow past a solid sphere and a viscous drop*, [Computer Methods in Applied Mechanics and Engineering](#), **190** (2001), No. 42, 5529-5542.
50. **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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52. **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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53. **M. Kohr**, W.L. Wendland, *Variational boundary integral equations for the Stokes system*, [Applicable Analysis](#), 85(2006), no. 11, 1343-1372.
54. **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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56. **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.
57. **M. Kohr**, *Some existence result for a Stokes flow between two arbitrarily closed curves*, [Archives of Mechanics](#), **48**, No.6, 973-984, 1996.

58. **M. Kohr-Ile**, *On the existence of solutions for two dimensional Stokes flows past rigid obstacles*, Archives of Mechanics, **48**, No.2, 385-394, 1996.

Chapters/articles in books/proceedings

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.
2. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Loewner chains and extremal problems for mappings with A-parametric representation in \mathbb{C}^n* , in: Proceedings of the Springer series of INDAM meeting Cortona - "Geometric function theory in higher dimension", September 2016.
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.
5. I. Graham, H. Hamada, G. Kohr, **M. Kohr**, *Univalent Subordination Chains in Reflexive Complex Banach Spaces*, *Contemporary Mathematics* (AMS), **591** (2013), 83-111.
6. I. Graham, G. Kohr, **M. Kohr**, *Basic properties of Loewner chains in several complex variables*, In: *Geometric Function Theory in Several Complex Variables*, 165-181, World Sci. Publishing, River Edge, NJ, 2004. ISBN 981-256-023-8
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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1. **M. Kohr**, G. Kohr, W.L. Wendland, *Boundary integral equations for viscous incompressible flows in porous media or past porous bodies*, Proceedings in Applied Mathematics and Mechanics (PAMM), 8(2008), no.1, 10891-10892.
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.
3. H. Hamada, G. Kohr, **M. Kohr**, *Parametric representation and extension operators for biholomorphic mappings on some Reinhardt domains*, Complex Variables Theory Appl., 50(2005), 507-519.
4. **M. Kohr**, *An application of the method of matched asymptotic expansions for low Reynolds number flow past a cylinder of arbitrary cross section*, Int. J. Math. Math. Sci., 47(2004), 2525-2535.
5. **M. Kohr**, *An indirect boundary integral method for an oscillatory Stokes flow problem*, Int. J. Math. Math. Sci., 47(2003), 2961-2976.
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9. **M. Kohr**, *An indirect boundary integral equation method to Stokes flow past rigid obstacles in a tunnel*, Journal of Theoretical and Applied Fluid Mechanics, vol.2, no. 1-2, 51-66, 1999-2000.
10. S. Kanas, G. Kohr, **M. Kohr**, *Uniformly starlike and uniformly convex mappings in several complex variables*, Tr. Petrozavodsk. Gos. Univ. Ser. Mat., nr. 7(2000), 29-41.
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**Papers in journals of Romanian Academy indexed in data bases
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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.
2. **M. Kohr**, *A second-kind integral equation method for Stokes flow past smooth obstacles in a channel*, Mathematica (Cluj), 47(70), no. 2 (2005), 165-178.
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14. **M. Kohr-Ile**, G. Kohr, *Some sufficient conditions of univalence for complex functions in the class C^1* , Mathematica (Cluj), vol.37(60), nr.1-2, 123-129, 1995.

Papers published in other journals
(selective list)

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.
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.