

List of Publications Robert GUTT

- [1]. **R. Gutt**, Mixed boundary value problems for the Navier-Stokes system on compact Riemannian manifolds, submitted.
- [2]. V. Surducan, E. Surducan, **R. Gutt**, Wide bandwidth rectifying antenna array coupled with new Armstrong step-up micro-converter for harvesting electromagnetic energy, submitted.
- [3]. M. Giloan, **R. Gutt**, Sub-wavelength imaging by space dilation, submitted.
- [4]. **R. Gutt**, BIE and BEM approach for the mixed Dirichlet-Robin boundary value problem for the nonlinear Darcy-Forchheimer-Brinkman system, submitted.
- [5]. **R. Gutt**, *Mixed boundary value problems for the Stokes system on Riemannian manifolds*, *Mathematica*, 60 (83) 152-165, DOI: 10.24293/mathcluj.2018.2.07.
- [6]. **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 (18), 7780-7829, 2017, DOI: 10.1002/mma.4562.
- [7]. M. Giloan, **R. Gutt**, Optical negative index metamaterial based on hexagonal arrays of metallic metaatoms with threefold rotational symmetry, *Journal of the Optical Society of America B*, 33-27, 2016, DOI: 10.1364/JOSAB.33.000027.
- [8]. **R. Gutt**, M. Kohr, C. Pinteau, W.L. Wendland, *On the transmission problem for the Oseen and Brinkman systems on Lipschitz domains in compact Riemannian manifolds*, *Mathematische Nachrichten*, 289 (4), 2015, DOI: 10.1002/mana.201400365.
- [9]. M. Giloan, R. Gutt, G. Saplaçan, Optical chiral metamaterial based on meta-atoms with three-fold rotational symmetry arranged in hexagonal lattice, *Journal of Optics*, 17 (8), 2015, DOI: 10.1088/2040-8978/17/8/085102.
- [10]. **R. Gutt**, T. Groşan, *On the lid-driven problem in a porous cavity. A theoretical and numerical approach*, *Applied Mathematics and Computation*, 266:1070-1082, 2015, DOI: 10.1016/j.amc.2015.06.038.