

### List of publications and books

- 1) Fan Jishan; Li Fucui; Nakamura Gen, Global strong solution to the 2D density-dependent liquid crystal flows with vacuum, *Nonlinear Analysis*, 97(2014) 185–190.
- 2) Nakamura Gen; Wang Haibing, Linear sampling method for the heat equation with inclusions, *Inverse Problems* 29 104015 doi:10.1088/0266-5611/29/10/104015
- 3) Fan Jishan; Nakamura Gen; Zhou Yong, Blow-up criteria for 3D nematic liquid crystal models in a bounded domain, *Boundary Value Problems* 2013, 2013:176 doi:10.1186/1687-2770-2013-176
- 4) Fan Jishan; Huang Shuxiang; Nakamura Gen, Well-posedness for the axisymmetric incompressible viscous Hall-magnetohydrodynamic equations, *Appl. Math. Letters*, 26(2013) 963-967.
- 5) Lin Ching-Lung; Nakamura Gen, Unique continuation property for the anomalous diffusion and its application, *Journal of Differential Equations*, Online publication complete: 7-FEB-2013, DOI information: 10.1016/j.jde.2013.01.039
- 6) Fan Jishan; Kim Kyoungsun; Nagayasu Sei ; Nakamura Gen, A gradient estimate for solutions to parabolic equations with discontinuous coefficients, *Electron. J. Diff. Equ.*, Vol. 2013 (2013), No. 93, pp. 1-24.
- 7) Zhou Yong; Fan Jishan; Nakamura Gen, Global Strong Solution to the Density-Dependent 2-D Liquid Crystal Flows, *Abstract and Applied Analysis*, vol. 2013 (2013), Online publication, <http://dx.doi.org/10.1155/2013/947291>.
- 8) Yoshikawa Kogo; Nakamura Gen, Model Independent MRE Data Analysis, *Computational and Mathematical Methods in Medicine*, vol. 2013 (2013), Online publication, <http://dx.doi.org/10.1155/2013/912920>
- 9) Fan Jishan; Li Fucui; Nakamura Gen, Global solutions to the Navier–Stokes- $\omega^-$  and related models with rough initial data, *Z. Angew. Math. Phys.* c (2013), DOI 10.1007/s00033-013-0332-2
- 10) Man Chi-Sing; Nakamura Gen; Tanuma Kazumi; Wang Shengzhang, Dispersion of Rayleigh waves in vertically-inhomogeneous prestressed elastic media, *IMA Journal of Applied Mathematics*(2013)pp.1-38, doi:10.1093/imamat/hxt025
- 11) Nakagawa Junichi; Nakamura Gen; Sasayama Satoshi ; Wang Haibing, Local maxima of solutions to some nonsymmetric reaction-diffusion systems, *Mathematical Methods in The Applied Sciences*, DOI: 10.1002/mma.2838 .
- 12) Nakamura Gen; Sasayama Satoshi, Inverse boundary value problem for the heat equation with discontinuous coefficients, *J. Inverse Ill-Posed Probl.* 21 (2013), no. 2, 217–232.

- 13) Nakamura Gen; Wang Haibing, Wang; Inverse scattering for obliquely incident polarized electromagnetic waves, *Inverse Problems* 28 (2012), no. 10, 105004, 24 pp.
- 14) Nakamura, Gen; Wang, Haibing; Direct electromagnetic scattering problem from an imperfectly conducting cylinder at oblique incidence, *J. Math. Anal. Appl.* 397 (2013), no. 1, 142–155.
- 15) Heck, Horst; Nakamura, Gen; Wang, Haibing; Linear sampling method for identifying cavities in a heat conductor. *Inverse Problems*, 28 (2012), No. 7, 075014.
- 16) Kim, Kyoungsun; Nakamura, Gen; Sini, Mourad; The Green function of the interior transmission problem and its applications, *Inverse Probl. Imaging* 6 (2012), no. 3, 487–521.
- 17) Wang, Haibing; Nakamura, Gen; The integral equation method for electromagnetic scattering problem at oblique incidence. *Applied Numerical Mathematics* 62 (2012), no. 7, 860-873.
- 18) Nakamura, Gen; Sleeman, Brian; Wang, Haibing; On uniqueness of an inverse problem in electromagnetic obstacle scattering for an impedance cylinder. *Inverse Problems*. 28 (2012), no. 5, 055012.
- 19) Jin, Liangbing; Fan, Jishan; Nakamura, Gen; Zhou, Yong; Partial vanishing viscosity limit for the 2D Boussinesq system with a slip boundary condition, *Boundary Value Problems* (2012), DOI:10.1186/1687-2770-2012-20.
- 20) Jimbo, Shuichi; Morassi, Antonino; Nakamura, Gen; Shirota, Kenji; A Non-destructive Method for Damage Detection in Steel-Concrete Structures Based on Finite Eigendata, *Inverse Problems in Science and Engineering*. 20 (2012), no. 2, 233--270.
- 21) Honda, Naofumi; Nakamura, Gen; Sini, Mourad; Analytic extension and reconstruction of obstacles from few measurements for elliptic second order operators. *Mathematische Annalen* (2012), DOI: 10.1007/s00208-012-0786-0.
- 22) Fan, Jishan; Nakamura, Gen; Zhou, Yong; A regularity criterion for a fluid system with the linear Soret effect. *Appl. Math. Lett.* 25 (2012), no. 2, 149–152.
- 23) Fan, Jishan; Nakamura, Gen; Zhou, Yong; On the Cauchy problem for a model of electro-kinetic fluid. *Appl. Math. Lett.* 25 (2012), no. 1, 33–37.
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- 25) Jiang, Yu; Fujiwara, Hiroshi; Nakamura, Gen; Approximate steady state models for magnetic resonance elastography, *SIAM Journal on Applied Mathematics*, 71(2011), no. 6 1965-1989.
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