# 研究業績

### 著書

[A1] 四ツ谷晶二・村井実 : 楕円函数と仲良くなろう- 微分方程式の解の全体像を求めて-,20013 年 12 月, 日本評論社

### 雑誌

[B1] 四ツ谷晶二・村井実 : 楕円函数と友達になろう- 微分方程式の解の全体像を求めて-,20011 年 4 月号~2012 年 4 月号, 数学セミナー, 日本評論社

#### 論文

#### --査読あり--

- [C1] M.Murai, K. Sakamoto and S. Yostutani: Representation formula for traveling waves to a derivative nonlinear schoedinger equation with the periodic boundary condition, Proceedings of the 10th AIMS International Conference, AIMS, to appear
- [C2] M. Murai, W. Mastumoto and S.Yotsutani, Representation formula for the plane elastic closed curve, Dynamical Systems and Differential Equations, DCDS Supplement 2013. Proceedings of the 9th AIMS International Conference, AIMS, (2013), 565-585.
- [C3] W. Mastumoto, M. Murai and S.Yotsutani, One can hear the shapes of some neon-convex drums, More Progress in Analysis Proceeding of the 5th ISACC Congress 2009. World Scientific Publishing, (2009), 863-872
- [C4] W. Mastumoto, M. Murai and S. Yotsutani, What Have We Learned on the Problem: Can One Hear the Shape of a Drum?, Phase Space Analysis of Partial differential Equations, vol. II, CENTRO DE RICERCA MATEM-ATICA ENNIO DE GIORGI, SCUOLA NORMALE SUPERIORE PISA , (2004), 345-361
- [C5] W.Matstumoto, M.Murai and T.Nagase: On the Cauchy-Kowalevskaya theorem of Nagumo type for systems, Proc. Conf. Honor J. Vaillant, ed, V. Anconaet et al., Marcel Dekker, (2003), 145-156

## \_査読なし\_

- [D1] M.Murai, Global structure of plane closed elastic curves, RIMS Kokyuroku, 1856(2013), 34-56
- [D2] 四ツ谷 晶二,村井 実,松本 和一郎 数式処理の微分方程式への応用,RIMS kokyuroku, **1674** (2010), 125-131
- [D3] M.Murai, On the global structure of solutions to the equation of the minimal curvature energy, RIMS Kokyuroku, 1358(2004), 9-13

[D4] W. Mastumoto, M. Murai and S. Yotsutani, By whick kind of sound can one hear the shape of a drum, RIMS Kokyuroku, 1315 (2003), 156-175

# -博士論文-

[E1] 村井 実, Kac の問題と最小曲率 Energy 曲線ついて,龍谷大学大学院 博士 論文 (2007)