



[Intelligent System Engineering](#) > NAGAMINE Yuko



NAGAMINE Yuko

Organization	Intelligent System Engineering
Position	Associate Professor
Academic Title	Doctor(Engineering)
Research Fields	Nonlinear phenomena

<< Research Subjects >>

1. [Spatiotemporal patterns on the electrode surface under the Ag and Sb co-electrodeposition system](#)
2. [Nonlinear phenomena emerging during synchronous process between collective oscillators](#)
3. [Interaction between an oscillating candle flame and air flow](#)

<< Academic Activities >>

Papers and Notes

1. [Yong-Jun Chen, Yuko Nagamine, Tomohiko Yamaguchi, Kenichi Yoshikawa: "Anomalous roughening of curvature-driven growth with a variable interface window", Physical Review E, Vol.82, pp.021604/1-5 \(2010\)](#)
2. [Yuko Nagamine, Kenichi Yoshikawa: "Contribution of convection to spatiotemporal stripe patterns formed by Ag and Sb coelectrodeposition", Chaos: An Interdisciplinary Journal of Nonlinear Science, Vol.20, pp.023117/1-11 \(2010\)](#)
3. [Yong-Jun Chen, Yuko Nagamine, Kenichi Yoshikawa: "Dynamic labyrinthine pattern in an active liquid film", Physical Review E, Vol.80, pp.056310/1-8 \(2009\)](#)
4. [Yong-Jun Chen, Yuko Nagamine, Kenichi Yoshikawa: "Self-propelled motion of a droplet induced by Marangoni-driven spreading", Physical Review E, Vol.80, pp.016303/1 – 7 \(2009\)](#)
5. [Yuko Nagamine, Masahiko Hara: "Freezing of phase separation in spatiotemporal stripe patterns formed by Ag and Sb co-electrodeposition", Surface Science, Vol.601, pp.803-809 \(2007\)](#)
6. [Yuko Nagamine, Masahiko Hara: "Surface element analysis of spatiotemporal stripe patterns formed by Ag and Sb co-Electrodeposition", Physical Review E, Vol.72, pp.016201/1 – 14 \(2005\)](#)
7. [Yuko Nagamine, Osamu Haruta, Masahiko Hara: "Surface morphology of spatiotemporal stripe patterns formed by Ag/Sb co-electrodeposition", Surface Science, Vol.575, pp.17-28 \(2005\)](#)
8. [Yuko Nagamine, Nobuhito Kurono, Masahiko Hara: "Electric stability of spatiotemporal stripe patterns formed by Silver and Antimony co-electrodeposition under the constant current mode", Thin Solid Films, Vol.460, pp.87-93 \(2004\)](#)
9. [Yuko Nagamine, Masahiko Hara: "Bifurcations of spatiotemporal stripe patterns formed by Ag/Sb co-electrodeposition", Physica A: Statistical Mechanics and its Applications, Vol.327, pp.249-263 \(2003\)](#)
10. [Yuko Nagamine, Kohzo Ito, Reinosuke Hayakawa: "Low- and high-frequency electric birefringence relaxations in linear polyelectrolyte solutions", Langmuir, Vol.15, pp.4135-4138 \(1999\)](#)
11. [Yuko Nagamine, Kohzo Ito, Reinosuke Hayakawa: "Low- and high-frequency relaxations in linear polyelectrolyte solutions with different counter-ion species", COLLOIDS AND SURFACES, A: Physicochemical and Engineering Aspects, Vol.148, pp.149-153 \(1999\)](#)

Presentations

1. [Yuko Nagamine: "Phase-separation behaviors in the mixed system of conductive and insulative materials under the constant current and voltage modes", The 2nd German-Japanese Workshop on "Nonlinear Sciences and KANSEI-Informatics", abstract book, pp.31, Yamaguchi\(Japan\), Aug.29 \(2013\)](#)
2. [Yuko Nagamine: "Phase-separation between conductive and insulative materials under the static electric field: Modeling for Ag and Sb spatiotemporal patterns on the electrode surface", Engineering of Chemical Complexity, Rostock-Warnemünde\(Germany\), June 11 \(2013\)](#)
3. [Hiroyuki Zuiki, Koki Otaka, Yuko Nagamine, Hidetoshi Miike, Atsushi Osa: "Descending motion of vortex associated with](#)

- [candle flame oscillation: Convective flow visualization, motion enhancement, and velocimetry](#)", Engineering of Chemical Complexity, Rostock-Warnemünde(Germany), June 11 (2013)
4. [Shun Takemoto, Yuko Nagamine, Hidetoshi Miike, Atsuhisa Osa: "Computer simulation of synchronous flashing of fireflies considering effect of random walk and dependence on interaction distance"](#), Engineering of Chemical Complexity, Rostock-Warnemünde(Germany), June 11 (2013)
 5. [Shun Takemoto, Yuko Nagamine, Hidetoshi Miike, Atsuhisa Osa: "Effect of random walk and dependence on coupling length for synchronous flashing of fireflies in computer simulation"](#), Spatiotemporal Organization in Non-equilibrium Systems, document-collection book, pp.67-68, Hakata(Japan), Feb.23 (2013)
 6. [Hiroyuki Zuiki, Yuko Nagamine, Hidetoshi Miike, Atsuhisa Osa: "Comparison of velocities between convection induced by candle flame oscillation and upward current of steam of hot water surface"](#), Spatiotemporal Organization in Non-equilibrium Systems, document-collection book, pp.69-70, Hakata(Japan), Feb.23 (2013)
 7. [Yuko Nagamine: "Dynamics of micro-phase segregation under non-equilibrium system: co-electrodeposition with Ag and Sb"](#), 9th iCeMS International Symposium, Kyoto(Japan), Dec.2 (2010)
 8. [Yuko Nagamine: "Dynamics of micro-phase segregation under thermodynamic open condition: Co-electrodeposition with Ag and Sb"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Lucca(Italy), July 7-8 (2010)
 9. [Yuko Nagamine: "Spatiotemporal stripe pattern as a product of cross talk between reaction-diffusion and phase-separation in Ag and Sb co-electrodeposition system"](#), Dynamic Days Asia Pacific 5: The 5th International Conference on Nonlinear Science, Nara(Japan), Sep.12 (2008)
 10. [Yuko Nagamine: "Spatiotemporal stripe pattern as a product of cross talk between reaction-diffusion and phase-separation in Ag and Sb co-electrodeposition system"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Waterville(USA), July 17 (2008)
 11. [Yuko Nagamine: "Characteristics of dynamic patterns formed by Ag and Sb co-electrodeposition"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Oxford(UK), Aug.2 (2006)
 12. [Yuko Nagamine and Masahiko Hara: "Chemical reaction in an internal of an electrodeposition film formed underneath dynamic patterns by Ag and Sb co-electrodeposition"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Oxford(UK), Aug.2 (2006)
 13. [Yuko Nagamine, Masahiko Hara: "Time-evolution of stripe wavelength in the spatiotemporal stripe pattern formed by Ag and Sb co-electrodeposition"](#), International Symposium on Physics of Non-equilibrium Systems, Nishinomiya and Kyoto(Japan), Oct.6 (2005)
 14. [Yuko Nagamine, Masahiko Hara: "Contribution of convection flow to dynamic patterns formed by Ag and Sb co-electrodeposition"](#), GRC: Nonlinear Science, Waterville(USA), June 29-30 (2005)
 15. [Yuko Nagamine, Masahiko Hara: "Time-evolution of the stripe wavelength in the spatiotemporal stripe pattern formed by Ag and Sb co-electrodeposition"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Lewiston(USA), July 21-22 (2004)
 16. [Yuko Nagamine, Masahiko Hara: "Morphology analysis of spatiotemporal stripe patterns formed by Ag/Sb co-electrodeposition"](#), Gordon Research Conference Nonlinear Science, Tilton(USA), Aug.7 (2003)
 17. [Yuko Nagamine, Masahiko Hara: "Voltage behaviours of spatiotemporal stripe patterns formed by Ag/Sb co-electrochemical deposition under the constant current mode"](#), Gordon Research Conference Oscillations and Dynamic Instabilities in Chemical Systems, Oxford(UK), July 29 (2002)
 18. [Yuko Nagamine, Nobuhito Kurono, Masahiko Hara: "Electrochemical characteristics of spatio-temporal stripe patterns formed by the Ag/Sb co-electrodeposition"](#), Faraday Discussion 121 The Dynamic Electrode Surface, Berlin(Germany), Apr.15 (2002)
 19. [Yuko Nagamine, Masahiko Hara: "Bifurcation of spatio-temporal stripe patterns formed by the Ag/Sb co-electrodeposition"](#), Faraday Discussion 120 Nonlinear Chemical Kinetics: Complex Dynamics and Spatiotemporal Patterns, Manchester(UK), Sep.10 (2001)
 20. [Yuko Nagamine, Kohzo Ito, Reinosuke Hayakawa: "Dependence of low- and high-frequency relaxations on counterions species in linear polyelectrolyte solutions"](#), proceedings of 2nd International Symposium on Polyelectrolytes: POLYELECTROLYTES'98, pp.163-166, Inuyama(Japan), June 2 (1998)
 21. [Yuko Nagamine, Kohzo Ito, Reinosuke Hayakawa: "Significant conformational change of linear polyions in solutions with different species of counterions"](#), VIII International Symposium on Colloid and Molecular Electrooptics: ELECTROOPTO'97, abstract book, pp.29, Sanct Petersburg(Russia), July 1 (1997)