

CURRICULUM VITAE

JONG-SHENQ GUO

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EDUCATION

National Taiwan Normal University, B.S., Mathematics, 1980
Purdue University, M.S., Mathematics, 1987
University of Minnesota, Ph.D., Mathematics, 1989

RESEARCH INTERESTS

Partial Differential Equations, Applied Mathematics, Mathematical Biology,
Wave Propagation

WORK EXPERIENCE

Chair Professor, Department of Mathematics,
Tamkang University, Taiwan, 8/1/2011 - present
Visiting Professor, MIMS,
Meiji University, Japan, 9/20/2010 - 3/31/2012
Professor, Department of Mathematics,
Tamkang University, Taiwan, 8/1/2010 - 7/31/2011
Dean, College of Science,
National Taiwan Normal University, Taiwan, 8/1/2007 - 7/31/2010
Visiting Scholar, MBI,
Ohio State University, USA, 6/20/2004 - 8/31/2004
Chairman, Department of Mathematics,
National Taiwan Normal University, Taiwan, 8/1/2001 - 7/31/2003
Professor, Department of Mathematics,
National Taiwan Normal University, Taiwan, 8/1/1995 - 7/31/2010
Professor, Institute of Applied Mathematics,
National Tsing Hua University, Taiwan, 8/1/1994 - 7/31/1995
Visiting Scholar, IMA,
University of Minnesota, USA, 8/1/1992 - 7/31/1993
Associate Professor, Institute of Applied Mathematics,
National Tsing Hua University, Taiwan, 8/1/1989 - 7/31/1994

EDITORIAL BOARDS

Associate Editor, Japan J. Industrial and Applied Mathematics, 10/1/2004 - 12/31/2009
 Associate Editor, Taiwanese Journal of Mathematics, 1/1/2007 - 12/31/2010
 Editor-in-Chief, Taiwanese Journal of Mathematics, 1/1/2011 - 7/31/2014
 Editor-in-Chief, Tamkang Journal of Mathematics, 8/1/2013 - present

AWARDS and HONORS

Honor Researcher for Theoretical Sciences, Mathematics Division,
 National Center for Theoretic Sciences (Taipei Office), 8/1/2008-7/31/2009
 Outstanding Research Award, National Science Council, Taiwan, 2010
 Outstanding Research Award, Ministry of Science and Technology, Taiwan, 2016

NATIONAL BOARDS

President, Mathematical Society of R.O.C. (Taiwan), 2018 - present
 Chair, Institutional Accreditation in Mathematics and Statistics,
 Higher Education Evaluation & Accreditation Council of Taiwan, 2009-2010
 Advisory Committee, Mathematics Division, National Science Council, 2008-2010
 Grant Panel, Mathematics Division, National Science Council, 1996-1998, 2002-2004

SERVICES AS PhD ADVISOR

Sheng-Chen Fu, National Taiwan Normal University, 2003
 Je-Chiang Tsai, National Taiwan Normal University, 2004
 Chin-Chin Wu, National Taiwan Normal University, 2007
 Chang-Hong Wu, National Taiwan Normal University, 2010
 Ying-Chih Lin, National Taiwan Normal University, 2012
 Chia-Tung Ling, National Taiwan Normal University, 2012
 Chih-Hong Yao, Tamkang University, 2018

PROFESSIONAL ACTIVITIES

I. Organized Conferences

- (1) International Workshop on Differential Equations and Scientific Computations, National Taiwan Normal University, Taipei, Taiwan, January 15-18, 1998. (organized with S.-B. Hsu and K.-M. Hui)
- (2) 1998 International Mathematics Conference, National Taiwan Normal University, Taipei, Taiwan, December 18-21, 1998. (organized with T.-H. Kuo et al.)
- (3) Second Korea-Taiwan Joint Workshop on Partial Differential Equations, Seoul National University, Seoul, Korea, January 28-30, 1999. (organized with M. Kwak et al.)
- (4) International Conference on Mathematical Analysis and its Applications, 2000 (ICMAA2000), National Sun Yat-sen University, Kaohsiung, Taiwan, January 17-21, 2000. (organized with N.-C. Wong et al.)

- (5) 2001 International Mathematics Conference, National Chung Hsing University, Taichung, Taiwan, November 23-25, 2001. (organized with H.-J. Kuo et al.)
- (6) Workshop on BioMathematics and Partial Differential Equations, National Taiwan Normal University, Taipei, Taiwan, December 13, 2002.
- (7) Workshop on Nonlinear Partial Differential Equations, National Taiwan Normal University, Taipei, Taiwan, December 22-23, 2003. (organized with Y.-H. Chang and Y.-J. Lin Guo)
- (8) Workshop on Partial Differential Equations and Dynamic Systems, National Taiwan Normal University, Taipei, Taiwan, December 7, 2004. (organized with Y.-H. Chang and Y.-J. Lin Guo)
- (9) France-Taiwan Joint Conference on Nonlinear Partial Differential Equations and Related Topics, National Taiwan University, Taipei, Taiwan, July 18-22, 2005. (organized with Chiun-Chuan Chen, Thierry Gallay, Francois Hamel, Tai-Chia Lin, and Lih-Chung Wang)
- (10) International Conference on Progress of the Applied Analysis, Hawaii Tokai International College, Hawaii, USA, August 29 - September 2, 2005. (organized with H. Imai, N. Ishimura, T. Itoh, T. Narazaki, and T. Suzuki)
- (11) Workshop on Computer-Aided Analysis and Reaction-Diffusion Systems, National Taiwan Normal University and National Taiwan University, Taipei, Taiwan, September 13-14, 2005. (organized with C.-C. Chen)
- (12) Workshop on Asymptotic Analysis, National Taiwan Normal University, Taipei, Taiwan, December 13, 2005. (organized with Y.-J. Lin Guo)
- (13) Special Session on Qualitative Properties of Evolution Equations in the AIMS' Sixth International Conference on Dynamical Systems and Differential Equations, University of Poitiers, Poitiers, France, June 25-28, 2006. (organized with M. Kirane and A. Rougirel)
- (14) Workshop on Reaction-Diffusion: Theory and Applications, National Taiwan Normal University, Taipei, Taiwan, December 1-2, 2006. (organized with C.-C. Chen)
- (15) France-Taiwan Joint Conference on Nonlinear Partial Differential Equations, CIRM, Marseille, France, March 25-28, 2008. (organized with T. Gallay, F. Hamel, J.-M. Roquejoffre)
- (16) International Workshop on Mathematical Biology: Modeling and Analysis, National Taiwan Normal University, Taipei, Taiwan, December 15-16, 2008. (organized with Y. Lou and J.-C. Tsai)
- (17) Japan-Taiwan Joint Workshop for Graduate Students in Applied Mathematics, National Taiwan Normal University, Taipei, Taiwan, February 28 - March 1, 2010. (organized with H. Ninomiya)
- (18) Workshop on PDE Models of Biological Processes, NCTS, National Tsing Hua University, Hsinchu, Taiwan, December 13-17, 2010. (Organized with S.-B. Hsu, A. Friedman, Y. Lou, C.-C. Chen and C.-W. Shih)
- (19) Second Japan-Taiwan Joint Workshop for Graduate Students in Applied Mathematics, Meiji University, Tokyo, Japan, February 25-27, 2011. (organized with H. Ninomiya)
- (20) The 20th Annual Workshop on Differential Equations, Tamkang University, Tamsui, New Taipei City, Taiwan, January 6-8, 2012. (organized with Whei-Ching Chan, Chuan-Jen Chyan, Chung-Tsun Shieh and Ting-Hui Yang)

- (21) Mini-Workshop on Applied Mathematics, Tamkang University, Tamsui, New Taipei City, Taiwan, March 23, 2012.
- (22) The 3rd Japan-Taiwan Joint Workshop for Young Scholars in Applied Mathematics, National Taiwan University, Taipei, Taiwan, February 27-28, 2012. (organized with Chiun-Chuan Chen, Jann-Long Chern, Chun-Hsiung Hsia, Shu-Ichi Kinoshita, Yoshihisa Morita, Hirokazu Ninomiya)
- (23) The 4th Japan-Taiwan Joint Workshop for Young Scholars in Applied Mathematics, Ryukoku University, Kyoto, Japan, February 28 - March 2, 2013. (organized with Chiun-Chuan Chen, Jann-Long Chern, Kota Ikeda, Junta Matsukidaira, Yoshihisa Morita, Hirokazu Ninomiya, Toshiyuki Ogawa, Nobuhiko Suematsu, Yoshikazu Yamagishi, Shoji Yotsutani)
- (24) 2013 One-day Workshop on Applied Mathematics, Tamkang University, Tamsui, New Taipei City, Taiwan, March 28, 2013.
- (25) France-Taiwan Joint Conference on Partial Differential Equations, CASTS, National Taiwan University, Taipei, Taiwan, October 21-25, 2013. (organized with Henri Berestycki, Francois Hamel, Chang-Shou Lin, Benoit Perthame, Horng-Tzer Yau)
- (26) The 5th Taiwan-Japan Joint Workshop for Young Scholars in Applied Mathematics, NCTS, National Tsing Hua University, Hsinchu, Taiwan, February 27 - March 1, 2014. (organized with Chiun-Chuan Chen et al.)
- (27) The 6th Taiwan-Japan Joint Workshop for Young Scholars in Applied Mathematics, Meiji University, Tokyo, Japan, February 27 - March 1, 2015. (organized with H. Ninomiya, Chiun-Chuan Chen et al.)
- (28) 2015 NCTS Workshop on Applied Mathematics, Tamkang University, Tamsui, New Taipei City, Taiwan, March 5, 2015.
- (29) 2015 NCTS Workshop on Applied Mathematics at Tainan, National University of Tainan, Tainan, Taiwan, June 15, 2015. (organized with Chang-Hong Wu)
- (30) The 7th Taiwan-Japan Joint Workshop for Young Scholars in Applied Mathematics, National Cheng Kung University, Tainan, Taiwan, February 27-29, 2016. (organized with C.-C. Chen et al.)
- (31) 2016 NCTS Workshop on Applied Mathematics at Tainan, National University of Tainan, Tainan, Taiwan, March 28, 2016. (organized with Tetsuya Ishiwata, Chang-Hong Wu and Tzung-Shin Yeh)
- (32) 2017 NCTS Workshop on Applied Mathematics at Tainan, National University of Tainan, Tainan, Taiwan, March 6, 2017. (organized with Yin-Liang Huang, Tetsuya Ishiwata, Chang-Hong Wu and Tzung-Shin Yeh)
- (33) ReaDiNet 2017: International Conference on Mathematical Biology, NCTS, National Taiwan University, Taipei, Taiwan, October 12-14, 2017. (organized with C.-C. Chen et al.)
- (34) International Conference on Nonlinear Analysis and its Applications, Tamkang University, New Taipei City, Taiwan, March 23-24, 2018. (organized with Francois Hamel, Wei-Ming Ni and Eiji Yanagida)

II. Invited Talks in International Conferences

- (1) Meeting on Similarity Solutions of Differential Equations, University of Pittsburgh, Pittsburgh, USA, April 26-28, 1991.

- (2) First International Conference on Dynamic Systems and Applications, Morehouse College, Atlanta, USA, May 26-29, 1993.
- (3) Second Sino-Japan Conference on Nonlinear PDEs and Applications, Kyoto University, Kyoto, Japan, January 10-14, 1994.
- (4) Second International Conference on Dynamic Systems and Applications, Morehouse College, Atlanta, USA, May 24-27, 1995.
- (5) Second World Congress of Nonlinear Analysts, University of Athens, Athens, Greece, July 10-17, 1996.
- (6) 3rd Workshop on Differential Equations, Chonnam National University, Kwangju, Korea, May 16-17, 1997.
- (7) Hiroshima Workshop '98 (Part II), Reaction-Diffusion Systems: Theories and Applications, Hiroshima University, Higashi-Hiroshima, Japan, November 27, 1998.
- (8) Workshop on Singularities Arising in Nonlinear Problems 1998, Kansai Seminar House, Kyoto, Japan, November 30 - December 2, 1998.
- (9) Conference on Blow-up, Breakdown, and Related Topics in Nonlinear PDEs, in honor of Professor H. Fujita's 70th birthday, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, December 9-11, 1998.
- (10) Second Korea-Taiwan Joint Workshop on Partial Differential Equations, Seoul National University, Seoul, Korea, January 28-30, 1999.
- (11) International Conference on Partial Differential Equations, Hannam University, Taejon, Korea, July 26, 1999.
- (12) 4th Workshop on Differential Equations, in honor of Kiyoshi Mochizuki on the occasion of his 60th birthday, Chonnam National University, Kwangju, Korea, July 27-29, 1999.
- (13) Conference on Nonlinear Diffusive Systems - Dynamics and Asymptotics, RIMS, Kyoto University, Kyoto, Japan, May 30 - June 2, 2000.
- (14) RIMS Conference on Reaction-Diffusion Systems: Theory and Applications, RIMS, Kyoto University, Kyoto, Japan, February 5-8, 2001.
- (15) Workshop on Nonlinear PDEs at Sendai, Tohoku University, Sendai, Japan, November 1-2, 2001.
- (16) Third East Asia Symposium on PDE, National Chung Cheng University, Chiayi, Taiwan, September 4-7, 2002.
- (17) Dynamics of Patterns in Reaction-Diffusion Systems and the Related Topics, RIMS, Kyoto University, Kyoto, Japan, November 25-28, 2002.
- (18) Trilateral Workshop on Analysis and Applications, Murramarang Resort, South Durras, New South Wales, Australia, February 3-7, 2003.
- (19) Conference on Partial Differential Equations and Applications, University of Notre Dame, Notre Dame, Indiana, USA, August 14-17, 2003.
- (20) Workshop on Singularities Arising in Nonlinear Problems 2003, Kansai Seminar House, Kyoto, Japan, November 25-27, 2003.
- (21) International Conference on Elliptic and Parabolic Problems: Recent Advances, NCTS, National Tsing Hua University, Hsinchu, Taiwan, February 16-20, 2004.
- (22) Fifth Northeastern Symposium on Mathematical Analysis, Sapporo Convention Center, Sapporo, Japan, February 23-24, 2004.
- (23) Workshop on Reaction-Diffusion Equations and Related Topics, NCTS, National Tsing Hua University, Hsinchu, Taiwan, May 26-31, 2004.

- (24) AIMS' Fifth International Conference on Dynamical Systems and Differential Equations, California State Polytechnic University, Pomona, California, USA, June 16-19, 2004.
- (25) Mini-Workshop on Dynamics of Nonlinear Waves, CIRM, Luminy, Marseille, France, October 18-22, 2004.
- (26) Workshop on Autonomous Formation of Spatial Structures in Parabolic Equations, Tohoku University, Sendai, Japan, November 18-20, 2004.
- (27) Workshop on Singularities Arising in Nonlinear Problems 2004, Kansai Seminar House, Kyoto, Japan, November 24-26, 2004.
- (28) 7th International Workshop on Differential Equations, Chonnam National University, Kwangju, Korea, May 19-21, 2005.
- (29) Ryukoku Workshop on Mathematical Aspects of Pattern Formation and Dynamics in Dissipative Systems, Ryukoku University, Seta, Japan, June 2-4, 2005.
- (30) International Conference on Hot Topics in Current Applied and Industrial Mathematics, Guizhou University, Guiyang, China, July 13-16, 2005.
- (31) International Conference on Progress of the Applied Analysis, Hawaii Tokai International College, Hawaii, USA, August 29 - September 2, 2005.
- (32) International Conference on Applied Mathematics, Tamkang University, Taipei, Taiwan, December 3-4, 2005.
- (33) Workshop on Reaction-Diffusion and Free Boundary Problems, Banff International Research Station, Banff, Canada, March 19-23, 2006.
- (34) Sixth East Asia Partial Differential Equations Conference, Wuhan University, Wuhan, China, May 15-19, 2006.
- (35) AIMS' Sixth International Conference on Dynamical Systems and Differential Equations, University of Poitiers, Poitiers, France, June 25-28, 2006.
- (36) Second Euro-Japanese Workshop on Blow-up, Satellite Conference to ICM2006, El Escorial, Madrid, Spain, September 4-8, 2006.
- (37) International Conference on Nonlinear Analysis, National Center for Theoretical Sciences, Hsinchu, Taiwan, November 20-25, 2006.
- (38) Workshop on Reaction-Diffusion: Theory and Applications, National Taiwan Normal University, Taipei, Taiwan, December 1-2, 2006.
- (39) Workshop on Singularities Arising in Nonlinear Problems 2006, Kansai Seminar House, Kyoto, Japan, December 4-6, 2006.
- (40) Workshop on Modeling, Analysis, and Computations for Biological Applications, National Chiao Tung University, Hsinchu, Taiwan, December 14-15, 2006.
- (41) 32nd Sapporo Symposium on Partial Differential Equations, Hokkaido University, Sapporo, Japan, August 24-26, 2007.
- (42) Conference on Integrating Differential Equations with Math Biology, Mathematical Bioscience Institute (MBI), Ohio State University, Columbus, Ohio, USA, November 15-18, 2007.
- (43) Workshop on Singularities Arising in Nonlinear Problems 2007, Kansai Seminar House, Kyoto, Japan, November 26-28, 2007.
- (44) Ryukoku Workshop on Recent Advances on Nonlinear Parabolic and Elliptic Differential Equations, Ryukoku University, Seta, Japan, December 3-5, 2007.
- (45) France-Taiwan Joint Conference on Nonlinear Partial Differential Equations, CIRM, Marseille, France, March 25-28, 2008.

- (46) 9th International Workshop on Differential Equations, Chonnam National University, Kwangju, Korea, May 29-31, 2008.
- (47) Fifth East China Conference on Partial Differential Equations, Nanjing University, Nanjing, China, July 7-11, 2008.
- (48) Mathematical Understanding of Complex Systems arising in Biology and Medicine, Meiji University, Tokyo, Japan, October 27-29, 2008.
- (49) Workshop on Singularities Arising in Nonlinear Problems (SNP2008), Kansai Seminar House, Kyoto, Japan, December 1-3, 2008.
- (50) International Workshop on Nonlinear Dynamics in Biological Systems & Soft-Matter Biophysics Days 2009, Academia Sinica, Taipei, Taiwan, January 16-20, 2009.
- (51) International Conference on Reaction-Diffusion Systems and Viscosity Solutions, Providence University in Taiwan, Taichung, Taiwan, July 13-18, 2009.
- (52) Workshop on Singularities Arising in Nonlinear Problems (SNP2009), Kansai Seminar House, Kyoto, Japan, November 30 - December 2, 2009.
- (53) International Workshop on Differential Equations and Their Applications, National Cheng Kung University, Tainan, Taiwan, December 18-21, 2009.
- (54) 27th Kyushu Symposium on Partial Differential Equations, Kyushu University, Fukuoka, Japan, January 25-27, 2010.
- (55) 10th International Workshop on Differential Equations, Chonnam National University, Kwangju, Korea, March 18-20, 2010.
- (56) 2010 NCTS Workshop on Calculus of Variations and Related Topics, NCTS, National Tsing Hua University, Hsinchu, Taiwan, May 6-8, 2010.
- (57) 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Dresden University of Technology, Dresden, Germany, May 25-28, 2010.
- (58) Tutorial Lectures and International Workshop on Singular Diffusion and Evolving Interfaces, Hokkaido University, Sapporo, Japan, August 2-6, 2010.
- (59) Workshop on Interface Motion and Traveling Waves in Reaction Diffusion Equations, Tongji University, Shanghai, China, October 13-14, 2010.
- (60) RIMS Symposium on Structures of Attractors in Dissipative Systems, RIMS, Kyoto University, November 15-17, 2010.
- (61) Workshop on PDE Models of Biological Processes, NCTS, National Tsing Hua University, Hsinchu, Taiwan, December 13-17, 2010.
- (62) Conference in Honor of the 60th Birthday of Dr. Chang-Shou Lin, NCTS/TPE, National Taiwan University, Taipei, Taiwan, July 8-9, 2011.
- (63) Workshop on Mathematical and Numerical Analysis for Interface Motion Arising in Nonlinear Phenomena, RIMS, Kyoto University, Kyoto, Japan, July 12-14, 2011.
- (64) One Forum, Two Cities: Aspect of Nonlinear PDEs, TIMS, National Taiwan University, Taipei, Taiwan, August 29 - September 1, 2011.
- (65) International Workshop on Modeling and Analysis of PDE Systems of Biological Processes, School of Mathematical Sciences, Capital Normal University, Beijing, China, October 18-21, 2011.
- (66) Workshop on Singularities Arising in Nonlinear Problems (SNP2011), Kansai Seminar House, Kyoto, Japan, December 3-4, 2011.
- (67) Reaction-Diffusion Systems Mini-Workshop 2012, MIMS, Meiji University, Tokyo, Japan, February 1, 2012.

- (68) NTU-Inha 2012 Bilateral Conference on Analysis and Scientific Computing, TIMS, National Taiwan University, Taipei, Taiwan, February 16-17, 2012.
- (69) 9th East China Partial Differential Equations Conference and Shanxi International Conference on Partial Differential Equations, Shanxi University, Taiyuan, Shanxi, China, July 16-19, 2012.
- (70) International Conference on Nonlinear Partial Differential Equations, Dynamical Systems and Their Applications, in honor of Professor Hiroshi Matano on the occasion of his 60th birthday, RIMS, Kyoto University, Kyoto, Japan, September 3-6, 2012.
- (71) 2012 NCTS (Taiwan)-POSTECH (Korea) Joint Workshop on Partial Differential Equations, NCTS, National Tsing Hua University, Hsinchu, Taiwan, November 8-9, 2012.
- (72) Workshop on Lattice and Nonlocal Dynamical Systems and Applications, IMA, University of Minnesota, Minneapolis, Minnesota, USA, December 3-7, 2012.
- (73) Taiwan-Japan Joint Conference on PDE and Analysis, Department of Mathematics, National Taiwan University, Taipei, Taiwan, December 26-28, 2012.
- (74) ICCM2013, TIMS, National Taiwan University, Taipei, Taiwan, July 14-19, 2013.
- (75) Two Days ReaDiLab Workshop, MIMS, Meiji University, Tokyo, Japan, July 23-24, 2013.
- (76) One Forum, Two Cities 2013: Aspect of Nonlinear PDEs, Waseda University, Tokyo, Japan, September 17-20, 2013.
- (77) France-Taiwan Joint Conference on Partial Differential Equations, CASTS, National Taiwan University, Taipei, Taiwan, October 21-25, 2013.
- (78) CASTS-LJLL Workshop on Applied Mathematics and Mathematical Sciences, CASTS, National Taiwan University, Taipei, Taiwan, May 26-29, 2014.
- (79) International Conference on Nonlinear Dynamics with Applications to Biology, NCTS, National Tsing Hua University, Hsinchu, Taiwan, May 28-30, 2014.
- (80) Sixth Euro-Japanese Workshop on Blow-up, Tokyo Institute of Technology, Tokyo, Japan, September 1-5, 2014.
- (81) RIMS Workshop on Shapes and other Properties of the Solutions of PDEs, RIMS, Kyoto University, Kyoto, Japan, November 5-7, 2014.
- (82) International Workshop on Mathematics in the Life and Physical Science, Renmin University of China, Beijing, China, May 19-21, 2015.
- (83) 12th International Workshop on Differential Equations, Chonnam National University, Kwangju, Korea, May 28-30, 2015.
- (84) ICMMA 2015: Self-Organization - Modeling and Analysis, Meiji University, Tokyo, Japan, October 26-29, 2015.
- (85) Nonlinear Analysis and Applications: A ReaDiNet Seminar Afternoon, Universite de Paris-Sud, Paris, France, November 10, 2015.
- (86) Meeting of the ANR NONLOCAL Research Group, INRA, Avignon, France, November 16-18, 2015.
- (87) 2016 NCTS International Workshop on Mathematical Biology, National Tsing Hua University, Hsinchu, Taiwan, May 21-23, 2016.
- (88) GDRI ReaDiNet Conference in Fréjus: Reaction-Diffusion Systems in Mathematics and Biomedicine, Villa Clythia, Fréjus, France, September 19-23, 2016.
- (89) International Conference on Reaction-Diffusion System, Theory and Application, MIMS, Meiji University, Tokyo, Japan, March 17-19, 2017.

- (90) ReaDiNet 2017: International Conference on Mathematical Biology, NCTS, National Taiwan University, Taipei, Taiwan, October 12-14, 2017.
- (91) 2018 NCTS Workshop on Mathematical Biology, National Tsing Hua University, Hsinchu, Taiwan, May 28 - June 1, 2018.
- (92) International Conference of the Honam-Youngnam Mathematical Societies, Jeju, Republic of Korea, June 21-24, 2018.
- (93) ReaDiNet 2018: Recent Progresses in Mathematical Theories for Biological Phenomena, Jeju, Republic of Korea, October 31 - November 3, 2018.
- (94) RIMS Workshop: Qualitative Theory on ODEs and its Applications to Mathematical Modeling, RIMS, Kyoto University, Kyoto, Japan, November 12-14, 2018.
- (95) 9th International Conference on Applied Physics and Mathematics (ICAPM 2019), Chulalongkorn University, Bangkok, Thailand, January 21-23, 2019.

LIST OF PUBLICATIONS (JONG-SHENQ GUO)

- (1) Jong-Shenq Guo, Ken-Ichi Nakamura, Toshiko Ogiwara and Chin-Chin Wu, *Stability and uniqueness of traveling waves for a discrete bistable 3-species competition system*, Journal of Mathematical Analysis and Applications, 472 (2019), 1534-1550.
- (2) Jong-Shenq Guo and Philippe Souplet, *Excluding blowup at zero points of the potential by means of Liouville-type theorems*, Journal of Differential Equations, 265 (2018), 4942-4964.
- (3) Yan-Yu Chen, Jong-Shenq Guo, Hirokazu Ninomiya and Chih-Hong Yao, *Entire solutions originating from monotone fronts to the Allen-Cahn equation*, Physica D: Nonlinear Phenomena, 378-379 (2018), 1-19.
- (4) Arnaud Ducrot, Jong-Shenq Guo and Masahiko Shimojo, *Behaviors of solutions for a singular prey-predator model and its shadow system*, Journal of Dynamics and Differential Equations, 30 (2018), 1063-1079.
- (5) Arnaud Ducrot and Jong-Shenq Guo, *Asymptotic behavior of solutions to a class of diffusive predator-prey systems*, Journal of Evolution Equations, 18 (2018), 755-775.
- (6) Jong-Shenq Guo and Bei Hu, *Quenching rate for a nonlocal problem arising in the micro-electro mechanical system*, Journal of Differential Equations, 264 (2018), 3285-3311.
- (7) Jong-Shenq Guo and Masahiko Shimojo, *Spatio-temporal oscillation for a singular predator-prey model*, Journal of Mathematical Analysis and Applications, 459 (2018), 1-9.
- (8) Yan-Yu Chen, Jong-Shenq Guo and Francois Hamel, *Traveling waves for a lattice dynamical system arising in a diffusive endemic model*, Nonlinearity, 30 (2017), 2334-2359.
- (9) Yan-Yu Chen, Jong-Shenq Guo and Hirokazu Ninomiya, *Existence of rotating spots with spatially dependent feedback in the plane in a wave front interaction model*, Journal of Dynamics and Differential Equations, 29 (2017), 465-483.
- (10) Yan-Yu Chen, Jong-Shenq Guo and Chih-Hong Yao, *Traveling wave solutions for a continuous and discrete diffusive predator-prey model*, Journal of Mathematical Analysis and Applications, 445 (2017), 212-239.
- (11) Jong-Shenq Guo, Yoshihisa Morita and Shoji Yotsutani, *Self-similar solutions for a quenching problem with spatially dependent nonlinearity*, Nonlinear Analysis, 147 (2016), 45-62.

- (12) Sheng-Chen Fu, Jong-Shenq Guo and Chin-Chin Wu, *Traveling wave solutions for a discrete diffusive epidemic model*, Journal of Nonlinear and Convex Analysis, 17 (2016), 1739-1751.
- (13) Jong-Shenq Guo, Hiroshi Matano, Masahiko Shimojo and Chang-Hong Wu, *On a free boundary problem for the curvature flow with driving force*, Archive for Rational Mechanics and Analysis, 219 (2016), 1207-1272.
- (14) Jong-Shenq Guo and Chin-Chin Wu, *The existence of traveling wave solutions for a bistable three-component lattice dynamical system*, Journal of Differential Equations, 260 (2016), 1445-1455.
- (15) Jong-Shenq Guo and Chin-Chin Wu, *On the dead-core problem for the p -Laplace equation with a strong absorption*, Tohoku Mathematical Journal, 67 (2015), 541-551.
- (16) Jong-Shenq Guo, Yi Wang, Chang-Hong Wu and Chin-Chin Wu, *The minimal speed of traveling wave solutions for a diffusive three species competition system*, Taiwanese Journal of Mathematics, 19 (2015), 1805-1829.
- (17) Jong-Shenq Guo and Philippe Souplet, *No touchdown at zero points of the permittivity profile for the MEMS problem*, SIAM Journal on Mathematical Analysis, 47 (2015), 614-625.
- (18) Jong-Shenq Guo and Chang-Hong Wu, *Dynamics for a two-species competition-diffusion model with two free boundaries*, Nonlinearity, 28 (2015), 1-27.
- (19) Jong-Shenq Guo, *Recent developments on a nonlocal problem arising in the micro-electro mechanical system*, Tamkang Journal of Mathematics, 45 (2014), 229-241.
- (20) Jong-Shenq Guo and Bo-Chih Huang, *Hyperbolic quenching problem with damping in the micro-electro mechanical system device*, Discrete and Continuous Dynamical Systems - Series B, 19 (2014), 419-434.
- (21) Jong-Shenq Guo and Xing Liang, *Erratum to: The minimal speed of traveling fronts for the Lotka-Volterra competition system*, Journal of Dynamics and Differential Equations, 25 (2013), 1251-1252.
- (22) Jong-Shenq Guo, *On the dead-core rates for a parabolic equation with strong absorption*, Bulletin of the Institute of Mathematics, Academia Sinica (New Series), 8 (2013), 431-444.
- (23) Jong-Shenq Guo and Ying-Chih Lin, *The sign of the wave speed for the Lotka-Volterra competition-diffusion system*, Communications on Pure and Applied Analysis, 12 (2013), 2083-2090.
- (24) Jong-Shenq Guo and Ying-Chih Lin, *Entire solutions for a discrete diffusive equation with bistable convolution type nonlinearity*, Osaka Journal of Mathematics, 50 (2013), 607-629.
- (25) Jong-Shenq Guo, Hirokazu Ninomiya, Masahiko Shimojo and Eiji Yanagida, *Convergence and blow-up of solutions for a complex-valued heat equation with a quadratic nonlinearity*, Transactions of the American Mathematical Society, 365 (2013), 2447-2467.
- (26) Jong-Shenq Guo and Chia-Tung Ling, *Dynamics for a complex-valued heat equation with an inverse nonlinearity*, Journal of Mathematical Analysis and Applications, 400 (2013), 153-160.

- (27) Jong-Shenq Guo, Hirokazu Ninomiya and Chin-Chin Wu, *Existence of a rotating wave pattern in a disk for a wave front interaction model*, Communications on Pure and Applied Analysis, 12 (2013), 1049-1063.
- (28) Jong-Shenq Guo, Chang-Shou Lin and Masahiko Shimojo, *Blow-up for a reaction-diffusion equation with variable coefficient*, Applied Mathematics Letters, 26 (2013), 150-153.
- (29) Jong-Shenq Guo and Chang-Hong Wu, *On a free boundary problem for a two-species weak competition system*, Journal of Dynamics and Differential Equations, 24 (2012), 873-895.
- (30) Jong-Shenq Guo and Chang-Hong Wu, *Recent developments on wave propagation in 2-species competition systems*, Discrete and Continuous Dynamical Systems - Series B, 17 (2012), 2713-2724.
- (31) Yan-Yu Chen, Jong-Shenq Guo and Hirokazu Ninomiya, *Existence and uniqueness of rigidly rotating spiral waves by a wave front interaction model*, Physica D: Nonlinear Phenomena, 241 (2012), 1758-1766.
- (32) Xinfu Chen, Jong-Shenq Guo and Bei Hu, *Dead-core rates for the porous medium equation with a strong absorption*, Discrete and Continuous Dynamical Systems - Series B, 17 (2012), 1761-1774.
- (33) Arnaud Ducrot and Jong-Shenq Guo, *Quenching behavior for a singular predator-prey model*, Nonlinearity, 25 (2012), 2059-2073.
- (34) Jong-Shenq Guo and Francois Hamel, *Propagation and blocking in periodically hostile environments*, Archive for Rational Mechanics and Analysis, 204 (2012), 945-975.
- (35) Jong-Shenq Guo and Chang-Hong Wu, *Traveling wave front for a two-component lattice dynamical system arising in competition models*, Journal of Differential Equations, 252 (2012), 4357-4391.
- (36) Jong-Shenq Guo and Nikos Kavallaris, *On a nonlocal parabolic problem arising in electrostatic MEMS control*, Discrete and Continuous Dynamical Systems, 32 (2012), 1723-1746.
- (37) Jong-Shenq Guo and Ying-Chih Lin, *Traveling wave solution for a lattice dynamical system with convolution type nonlinearity*, Discrete and Continuous Dynamical Systems, 32 (2012), 101-124.
- (38) Jong-Shenq Guo, Yung-Jen Lin Guo and Bei Hu, *Global existence of solution to a nonlocal parabolic problem modeling linear friction welding*, Taiwanese Journal of Mathematics, 16 (2012), 107-112.
- (39) Jong-Shenq Guo and Xing Liang, *The minimal speed of traveling fronts for the Lotka-Volterra competition system*, Journal of Dynamics and Differential Equations, 23 (2011), 353-363.
- (40) Xinfu Chen and Jong-Shenq Guo, *Motion by curvature of planar curves with end points moving freely on a line*, Mathematische Annalen, 350 (2011), 277-311.
- (41) Jong-Shenq Guo and Chang-Hong Wu, *Wave propagation for a two-component lattice dynamical system arising in strong competition models*, Journal of Differential Equations, 250 (2011), 3504-3533.
- (42) Jong-Shenq Guo and Masahiko Shimojo, *Blowing up at zero points of potential for an initial boundary value problem*, Communications on Pure and Applied Analysis, 10 (2011), 161-177.

- (43) Jong-Shenq Guo, Chang-Shou Lin and Masahiko Shimojo, *Blow-up behavior for a parabolic equation with spatially dependent coefficient*, Dynamic Systems and Applications, 19 (2010), 415-434.
- (44) Jong-Shenq Guo, Hiroshi Matano and Chih-Chin Wu, *An application of braid group theory to the finite time dead-core rate*, Journal of Evolution Equations 10 (2010), 835-855.
- (45) Jong-Shenq Guo, Chia-Tung Ling and Philippe Souplet, *Non-self-similar dead-core rate for the fast diffusion equation with strong absorption*, Nonlinearity 23 (2010), 657-673.
- (46) Jong-Shenq Guo, Hirokazu Ninomiya and Je-Chiang Tsai, *Existence and Uniqueness of stabilized propagating wave segments in wave front interaction model*, Physica D: Nonlinear Phenomena 239 (2010), 230-239.
- (47) Jong-Shenq Guo and Chang-Hong Wu, *Entire solutions for a two-component competition system in a lattice*, Tohoku Mathematical Journal 62 (2010), 17-28.
- (48) Jong-Shenq Guo and Chang-Hong Wu, *Front propagation for a two-dimensional periodic monostable lattice dynamical system*, Discrete and Continuous Dynamical Systems 26 (2010), 197-223.
- (49) Jong-Shenq Guo, Bei Hu, and Chi-Jen Wang, *A nonlocal quenching problem arising in micro-electro mechanical system*, Quarterly of Applied Mathematics 67 (2009), 725-734.
- (50) Jong-Shenq Guo and Je-Chiang Tsai, *Traveling waves of two-component reaction-diffusion systems arising from higher order autocatalytic models*, Quarterly of Applied Mathematics 67 (2009), 559-578.
- (51) Jong-Shenq Guo and Chin-Chin Wu, *Uniqueness and stability of traveling waves for periodic monostable lattice dynamical system*, Journal of Differential Equations 246 (2009), 3818-3833.
- (52) Jong-Shenq Guo, Satoshi Sasayama, and Chi-Jen Wang, *Blowup rate estimate for a system of semilinear parabolic equations*, Communications on Pure and Applied Analysis 8 (2009), 711-718.
- (53) Sheng-Chen Fu, Jong-Shenq Guo, and Chin-Chin Wu, *Dead-core at time infinity for a heat equation with strong absorption*, Taiwanese Journal of Mathematics 13 (2009), 1213-1227.
- (54) Jong-Shenq Guo and Bei Hu, *Blowup rate estimates for the heat equation with a nonlinear gradient source term*, Discrete and Continuous Dynamical Systems 20 (2008), 927-937.
- (55) Xinfu Chen, Jong-Shenq Guo, and Chin-Chin Wu, *Traveling waves in discrete periodic media for bistable dynamics*, Archive for Rational Mechanics and Analysis 189 (2008), 189-236.
- (56) Jong-Shenq Guo and Chin-Chin Wu, *Finite time dead-core rate for the equation with a strong absorption*, Tohoku Mathematical Journal 60 (2008), 37-70.
- (57) Jong-Shenq Guo and Chang-Hong Wu, *Existence and uniqueness of traveling waves for a monostable 2-D lattice dynamical system*, Osaka Journal of Mathematics 45 (2008), 327-346.
- (58) Xinfu Chen, Marek Fila, and Jong-Shenq Guo, *Boundedness of global solutions of a supercritical parabolic equation*, Nonlinear Analysis, TMA 68 (2008), 621-628.

- (59) Xinfu Chen and Jong-Shenq Guo, *Self-similar solutions of a 2-d multiple phase curvature flow*, Physica D: Nonlinear Phenomena 229 (2007), 22-34.
- (60) Jong-Shenq Guo, *Blow-up Behavior for A Quasilinear Parabolic Equation with Non-linear Boundary Condition*, Discrete and Continuous Dynamical Systems 18 (2007), 71-84.
- (61) Xinfu Chen, Jong-Shenq Guo, Francois Hamel, Hirokazu Ninomiya, and Jean-Michel Roquejoffre, *Traveling waves with paraboloid like interfaces for balanced bistable dynamics*, Annales de l'Institut Henri Poincare - Analyse Non Lineaire 24 (2007), 369-393.
- (62) Xinfu Chen, Jong-Shenq Guo, and Hirokazu Ninomiya, *Entire solutions of reaction-diffusion equations with balanced bistable nonlinearities*, Proceedings of the Royal Society of Edinburgh 136A (2006), 1207-1237.
- (63) Jong-Shenq Guo and Je-Chiang Tsai, *The asymptotic behavior of solutions of the buffered bistable system*, Journal of Mathematical Biology 53 (2006), 179-213.
- (64) Jong-Shenq Guo and Francois Hamel, *Front propagation for discrete periodic monostable equations*, Mathematische Annalen 335 (2006), 489-525.
- (65) Xinfu Chen, Sheng-Chen Fu, and Jong-Shenq Guo, *Uniqueness and asymptotics of traveling waves of monostable dynamics on lattices*, SIAM Journal on Mathematical Analysis 38 (2006), 233-258.
- (66) Jong-Shenq Guo and Bei Hu, *On a two-point free boundary problem*, Quarterly of Applied Mathematics 64 (2006), 413-431.
- (67) Jong-Shenq Guo, Ken-Ichi Nakamura, Toshiko Ogiwara, and Je-Chiang Tsai, *On the steadily rotating spirals*, Japan Journal of Industrial and Applied Mathematics 23 (2006), 1-19.
- (68) Bernold Fiedler, Jong-Shenq Guo, and Je-Chiang Tsai, *Rotating spirals of curvature flows: a center manifold approach*, Annali di Matematica Pura ed Applicata 185 (2006), S259-291.
- (69) Jong-Shenq Guo, *Entire solutions of some reaction-diffusion equations*, Recent advances in elliptic and parabolic problems, 121-135, World Sci. Publ., Hackensack, NJ, 2005.
- (70) Jong-Shenq Guo, Chia-Tung Ling, and Chin-Chin Wu, *On the equilibrium positions of solid bodies on an elastic wire with energy involving arc length*, Mathematical and Computer Modelling 42 (2005), 99-122.
- (71) Jong-Shenq Guo and Je-Chiang Tsai, *The structure of solutions for a third order differential equation in boundary layer theory*, Japan Journal of Industrial and Applied Mathematics 22 (2005), 311-351.
- (72) Jong-Shenq Guo, Yung-Jen Lin Guo, and Chi-Jen Wang, *Global and non-global solutions of a nonlinear parabolic equation*, Taiwanese Journal of Mathematics 9 (2005), 187-200.
- (73) Xinfu Chen and Jong-Shenq Guo, *Existence and uniqueness of entire solutions for a reaction - diffusion equation*, Journal of Differential Equations 212 (2005), 62-84.
- (74) Jong-Shenq Guo and Bei Hu, *Blowup behavior for a nonlinear parabolic equation of nondivergence form*, Nonlinear Analysis, TMA 61 (2005), 577-590.
- (75) Jong-Shenq Guo and Philippe Souplet, *Fast rate of formation of dead-core for the heat equation with strong absorption and applications to fast blow-up*, Mathematische Annalen 331 (2005), 651-667.

- (76) Jong-Shenq Guo and Yoshihisa Morita, *Entire solutions of reaction-diffusion equations and an application to discrete diffusive equations*, Discrete and Continuous Dynamical Systems 12 (2005), 193-212.
- (77) Jong-Shenq Guo, Naoyuki Ishimura, and Chin-Chin Wu, *Self-similar solutions for the kinematic model equation of spiral waves*, Physica D: Nonlinear Phenomena 198 (2004), 197-211.
- (78) Bernold Fiedler, Jong-Shenq Guo, and Je-Chiang Tsai, *Multiplicity of rotating spirals under curvature flows with normal tip motion*, Journal of Differential Equations 205 (2004), 211-228.
- (79) Jong-Shenq Guo and Cheng-Chang Lee, *Traveling wave solutions of a bistable fast diffusion equation*, Bulletin of the Institute of Mathematics, Academia Sinica 32 (2004), 97-117.
- (80) Jong-Shenq Guo, Chu-Pin Lo, and Je-Chiang Tsai, *Structure of solutions for equations related to the motions of plane curves*, ANZIAM Journal 45 (2004), 585-592.
- (81) Xinfu Chen and Jong-Shenq Guo, *Uniqueness and existence of traveling waves for discrete quasilinear monostable dynamics*, Mathematische Annalen 326 (2003), 123-146.
- (82) Ya-Ling Chang, Jong-Shenq Guo, and Yoshihito Kohsaka, *On a two-point free boundary problem for a quasilinear parabolic equation*, Asymptotic Analysis 34 (2003), 333-358.
- (83) Hua-Huai Chern, Jong-Shenq Guo, and Chu-Pin Lo, *The self-similar expanding curve for the curvature flow equation*, Proceedings of American Mathematical Society 131 (2003), 3191-3201.
- (84) Jong-Shenq Guo and Je-Chiang Tsai, *Structure of positive solutions to a semilinear initial value problem*, Funkcialaj Ekvacioj 46 (2003), 409-420.
- (85) Jong-Shenq Guo, Yung-Jen Lin Guo, and Je-Chiang Tsai, *Single-point blow-up patterns for a nonlinear parabolic equation*, Nonlinear Analysis, TMA 53 (2003), 1149-1165.
- (86) Sheng-Chen Fu, Jong-Shenq Guo, and Je-Chiang Tsai, *Blow-up behavior for a semilinear heat equation with a nonlinear boundary condition*, Tohoku Mathematical Journal 55 (2003), 565-581.
- (87) Jong-Shenq Guo and Yoshihito Kohsaka, *Self-similar solutions of two-point free boundary problem for heat equation*, Nonlinear Diffusive Systems and Related Topics, RIMS Kôkyûroku No. 1258, 2002, pp.94-107.
- (88) Sheng-Chen Fu and Jong-Shenq Guo, *Blow-up for a semilinear reaction-diffusion system coupled in both equations and boundary conditions*, Journal of Mathematical Analysis and Applications 276 (1) (2002), 458-475.
- (89) Xinfu Chen and Jong-Shenq Guo, *Existence and asymptotic stability of traveling waves of discrete quasilinear monostable equations*, Journal of Differential Equations 184 (2) (2002), 549-569.
- (90) Jong-Shenq Guo and Bei Hu, *Blowup rate for heat equation in Lipschitz domains with nonlinear heat source terms on the boundary*, Journal of Mathematical Analysis and Applications 269 (1) (2002), 28-49.
- (91) Sheng-Chen Fu, Jong-Shenq Guo, and Shang-Yau Shieh, *Traveling wave solutions for some discrete quasilinear parabolic equations*, Nonlinear Analysis, TMA 48(8) (2002), 1137-1149.

- (92) Marek Fila and Jong-Shenq Guo, *Complete blow-up and incomplete quenching for the heat equation with a nonlinear boundary condition*, Nonlinear Analysis, TMA 48(7) (2002), 995-1002.
- (93) Jong-Shenq Guo and Yung-Jen Lin Guo, *On a fast diffusion equation with source*, Tohoku Mathematical Journal 53 (2001), 571-579.
- (94) Jong-Shenq Guo and Tsung-Min Hwang, *On the steady states of a nonlocal semilinear heat equation*, Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis 8 (2001), 53-68.
- (95) Jong-Shenq Guo and Yung-Jen Lin Guo, *An ordinary differential equation arising in the Ricci flow on the plane*, ANZIAM Journal 42 (2001), 438-444.
- (96) Jong-Shenq Guo and Bei Hu, *Quenching profile for a quasilinear parabolic equation*, Quarterly of Applied Mathematics 58(4) (2000), 613-626.
- (97) Jong-Shenq Guo, *Quenching behavior for the solution of a nonlocal semilinear heat equation*, Differential and Integral Equations 13(7-9) (2000), 1139-1148.
- (98) Jong-Shenq Guo and Yung-Jen Lin Guo, *Critical length for a degenerate parabolic equation*, Bulletin of the Institute of Mathematics, Academia Sinica 28(1) (2000), 1-8.
- (99) Go-Jien Chen and Jong-Shenq Guo, *Critical length for a quenching problem with nonlocal singularity*, Methods and Applications of Analysis 5(2) (1998), 185-194.
- (100) Jong-Shenq Guo, *Quenching problem in nonhomogeneous media*, Differential and Integral Equations 10(6) (1997), 1065-1074.
- (101) Jong-Shenq Guo and Bei Hu, *The profile near quenching time for solution of a singular semilinear heat equation*, Proceedings of the Edinburgh Mathematical Society 40 (1997), 437-456.
- (102) Jong-Shenq Guo and Bei Hu, *Quenching problem for a singular semilinear heat equation*, Nonlinear Analysis, TMA 30 (1997), 905-910, Proceedings of the WCNA96.
- (103) Jong-Shenq Guo, *On the Cauchy problem for a very fast diffusion equation*, Communications in Partial Differential Equations 21 (1996), 1349-1365.
- (104) Jong-Shenq Guo, *Some similarity solutions for a singular diffusion equation*, Proceedings of Dynamic Systems and Applications, Vol. 2 (Atlanta, GA, 1995), 207-213, Dynamic, Atlanta, GA, 1996.
- (105) Jong-Shenq Guo and I-Man Sun, *Remarks on a singular diffusion equation*, Nonlinear Analysis, TMA 27(10) (1996), 1109-1115.
- (106) Jong-Shenq Guo, *Quenching behavior for a fast diffusion equation with absorption*, Dynamic Systems and Applications 4 (1995), 47-56.
- (107) Jong-Shenq Guo, *Similarity solutions for a quasilinear parabolic equation*, Journal of the Australian Mathematical Society, Series B: Applied Mathematics 37 (1995), 253-266. (with new name as ANZIAM Journal)
- (108) Jong-Shenq Guo, Wen-Wei Lin, and Chern-Shuh Wang, *Numerical solution for large sparse quadratic eigenvalue problems*, Linear Algebra and Its Applications 225 (1995), 57-89.
- (109) Jong-Shenq Guo, Wen-Wei Lin, and Chern-Shuh Wang, *Non-equivalence deflation to the solution of matrices latent value problems*, Linear Algebra and Its Applications 231 (1995), 15-46.

- (110) Jong-Shenq Guo, *The competition between fast diffusion and source*, Proceedings of Dynamic Systems and Applications, Vol. 1 (Atlanta, GA, 1993), 127-134, Dynamic, Atlanta, GA, 1994.
- (111) Jong-Shenq Guo, *Large time behavior of solutions of a fast diffusion equation with source*, Nonlinear Analysis, TMA 23(12) (1994), 1559-1568.
- (112) Jen-Chih Yao and Jong-Shenq Guo, *Variational and generalized variational inequalities with discontinuous mappings*, Journal of Mathematical Analysis and Applications 182(2) (1994), 371-392.
- (113) Jong-Shenq Guo and Jen-Chih Yao, *Variational inequalities with nonmonotone operators*, Journal of Optimization Theory and Applications 80(1) (1994), 63-74.
- (114) Jong-Shenq Guo and Jen-Chih Yao, *The variational inequalities*, Computers and Mathematics with Applications 25(3) (1993), 99-105.
- (115) Stathis Filippas and Jong-Shenq Guo, *Quenching profiles for one-dimensional semilinear heat equations*, Quarterly of Applied Mathematics 51(4) (1993), 713-729.
- (116) Jong-Shenq Guo and Yin-Min Kung, *Generalized variational inequalities for multivalued operators with contractible values*, Applied Mathematics Letters 5(4) (1992), 59-62.
- (117) Jong-Shenq Guo and Hsuan-Wen Su, *The blow-up behavior of the solution of an integrodifferential equation*, Differential and Integral Equations 5(6) (1992), 1237-1245.
- (118) Jong-Shenq Guo, *Forward self-similar solutions of a semilinear heat equation*, Bulletin of the Institute of Mathematics, Academia Sinica 20(2) (1992), 119-128.
- (119) Jong-Shenq Guo and Jen-Chih Yao, *Extension of strongly nonlinear quasivariational inequalities*, Applied Mathematics Letters 5(3) (1992), 35-38.
- (120) Jong-Shenq Guo and Jen-Chih Yao, *Zeros of operators in Banach spaces*, Applied Mathematics Letters 5(1) (1992), 55-57.
- (121) Jong-Shenq Guo, *The critical length for a quenching problem*, Nonlinear Analysis, TMA 18(6) (1992), 507-516.
- (122) Jong-Shenq Guo, *On the quenching rate estimate*, Quarterly of Applied Mathematics 49(4) (1991), 747-752.
- (123) Jong-Shenq Guo, *On a quenching problem with the Robin boundary condition*, Nonlinear Analysis, TMA 17(9) (1991), 803-809.
- (124) Jong-Shenq Guo, *On the semilinear elliptic equation $\Delta w - (1/2)y \cdot \nabla w + \lambda w - w^{-\beta} = 0$ in \mathbf{R}^n* , Chinese Journal of Mathematics 19(4) (1991), 355-377.
- (125) Jong-Shenq Guo, *A variational inequality associated with a lubrication problem*, Nonlinear Analysis, TMA 16(1) (1991), 13-34.
- (126) Jong-Shenq Guo, *On the quenching behavior of the solution of a semilinear parabolic equation*, Journal of Mathematical Analysis and Applications 151(1) (1990), 58-79.