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<http://www.chem.stonybrook.edu:82/Jin-Wang.html>

DISCIPLINARY FIELDS

Theoretical Physical Chemistry
 Protein Folding, Molecular Recognition, Conformational Dynamics and Single Molecules,
 Systems Biology
 Statistical Mechanics

EDUCATION

1991-1996 Postdoctoral Research Associate, University of Illinois at Urbana-Champaign,
 Chemistry and Biological Physics
 1991 Ph.D., University of Illinois at Urbana-Champaign, Astrophysics (1985-1991)
 1984 B.S. Jilin University, Physics (1980-1984)

PROFESSIONAL EXPERIENCE

2009-present Associate Professor of Chemistry and Physics of SUNY at Stony Brook
 2004-2009 Assistant Professor of Chemistry and Physics of SUNY at Stony Brook
 2008-present Adjunct Professor of Harriman Business School of SUNY at Stony Brook
 2006-present Adjunct Professor of Applied Mathematics of SUNY at Stony Brook
 2004-present Adjunct Faculty Member of Biochemistry Program SUNY at Stony Brook
 2002-present Adjunct Professor of Changchun Institute of Applied Chemistry
 2002-2009 Chairman of Department of Credit Management, Jilin University
 1999-2004 Adjunct Associate Professor of Chemistry of SUNY at Stony Brook
 1997-present Adjunct Research Professor of Department of Physics, Jilin University
 1997-2004 Vice President, Senior Analyst, Global Strategic Analytics Unit, Citigroup
 1996-1997 Guest Scientist, National Institutes of Health

AWARDS AND HONORS

2012 Fellow of American Association for the Advancement of Science
 2010 Fellow of American Physical Society
 2005 National Science Foundation Career Award
 2005 K.C. Wong Foundation Research Award
 2004 Baden-Wurttemberg Visiting Scholar Fellowship, Sponsored by the Ministry of
 Science, Research and Arts of the State of Baden-Wurttemberg, Germany
 1987 Phi Kappa Phi Academic Excellence
 1985 Graduate Student Fellowship, University of Illinois at Urbana-Champaign

CURRENT RESEACH GRANT SUPPORT

2010	National Science Foundation (PI)
2010	National Institutes of Health (Co-Investigator)
2009	NSF Advancing Theory in Biology Award (PI)
2007	National Institutes of Health R-01 (Co Investigator)
2005	National Science Foundation Career Award (PI)
2005	Petroleum Research Fund of American Chemical Society (PI)
2004	New Faculty Start-Up Fund, SUNY at Stony Brook (PI)

CURRENT RESEACH INTERESTS

Theoretical and Biophysical Chemistry: Single Molecules, Protein Dynamics, Protein Folding, Biomolecular Recognition, Cellular Networks and Systems Biology, Ecology and Evolution, Neural Networks.

Statistical Mechanics: Glasses & Spin Glasses, Non-Equilibrium Statistical Mechanics

PROFESSIONAL ACTIVITIES

COMMITTEES AND MEMBERSHIP

Member at Large of Division of Biological Physics of American Physical Society
American Physical Society
American Chemical Society
American Biophysical Society
Editorial Board Member of Journal of Biological Physics.
National Institutes of Health Study Section
National Science Foundation Grant Review Panel Member
National Science Foundation Site Review Member

SEMINARS AND INVITED MEETING TALKS (TOTAL OF 201)

1. Physics Dept. of University of Illinois, June 1988.
2. Physics Dept. of Washington University, Jan. 11, 1990
3. 'After 3 minutes' Workshop, Washington D.C., Oct. 14, 1990
4. Astronomy Dept. of University of Illinois in Oct. 11, 1990
- 1991 Santa Fe Complex System Summer School, July 20, 1991
6. Physics Dept. of Tufts University, Boston, Feb. 12, 1992

7. Theoretical Biology Seminar at Univ. of Illinois, Mar. 2, 1992
8. Physics Dept. of Univ. of Missouri at Kansas, Nov. 5, 1993
9. Physics Dept. of Univ. of Illinois, Feb. 15, 1994
10. Theoretical Biophysics Seminar at Univ. of Illinois, Dec. 8, 1994
11. Phys. Dept. of Eastern Illinois Univ., Jan. 15, 1995
12. Chem. Dept. of Univ. of Pittsburgh, Feb. 6, 1995
13. Chem. Dept. of Stanford Univ. Mar. 25, 1995
14. 209th ACS Meeting in L.A., Apr. 3, 1995
15. National Institute of Health, Apr. 23, 1995
16. Informatics Dept. of Nagoya Univ., July 18, 1995
17. Chem. Dept. of Tokyo Inst. of Technology, July 19, 1995
18. Phys. Dept. of Hong Kong Univ. of Science and Technology, July 21, 1995
19. 19th IUPAP Statistical Physics Conference, Aug. 3, 1995
20. Chemistry Dept. of Cambridge University, UK, Jan. 9, 1996
21. Biochemistry Dept. of Kansas State University, Feb. 27, 1996
22. **Invited Talk at Colorado Workshop on Reaction Dynamics and Biophysical Chemistry, July 14, 1996**
23. Information and Computing Dept. NIH. Oct. 10, 1996
24. Phys. Dept. Princeton University, Nov. 7, 1996
25. NEC, Nov. 8, 1996
26. **Invited Lecture at International Center for Theoretical Physics at Trieste, Nov. 29-30, 1996**
27. **Invited Lecture at European Molecular Biology Lab, Dec. 5, 1996**
28. Chem. Dept. of Zurich Poly Tech. Dec. 10, 1996
29. Biophysics. Dept. of Univ. of Ulm, Dec. 12, 1996
30. Workshop on Statistical Mechanics at Rutgers Univ. Dec. 16, 1996
31. Phys. Dept. of Univ. Pennsylvania, Jan. 27, 1997
32. Chem. Dept. Toronto University, Feb. 14, 1997
33. **Invited Talk on Reaction Dynamics at American Physical Society Annual Meeting (Kansas), Mar. 17, 1997**
34. **Invited Talk on Single Molecules at American Chemical Society Annual Meeting (San Francisco), Apr. 16, 1997**
35. Chem. Dept. Scripps Research Institute, San Diego, Apr. 18, 1997
36. Citicorp Head Quarter, New York, May 4, 1997
37. Chem. Dept. Univ. of California at San Diego, May 16, 1997
38. Phys. Dept. Delaware University, May 22, 1997
39. Chem. Dept. Univ. of New Mexico, June 17, 1997
40. **Invited Lecture at International Conference on Statistical Physics and Biophysics (Taipei), July, 1997**
41. Phys. Dept. Jilin University, Aug. 12, 1997
42. Chem. Dept. Jilin University, Aug. 14, 1997
43. **Invited Talk at International Symposium on Chemistry (Hong Kong), Dec. 22, 1997**
44. American Physical Society Annual Meeting (Los Angeles), Mar. 17, 1998
45. American Physical Society Annual Meeting (Los Angeles), Mar. 18, 1998
46. Rutgers Meetings on Statistical Mechanics, Rutgers University, May 15, 1998
47. **Invited Talk at International Symposium on Applied Chemistry, Changchun, Aug. 18, 1998**
48. Chem. Dept. SUNY at Stony Brook, Oct. 15, 1998

49. American Physical Society Annual Meeting, Atlanta, Mar. 23, 1999
50. Rutgers Meeting on Statistical Mechanics, Rutgers University, May 17, 1999
51. Department of Chemistry, Hong Kong University, August 12, 1999
52. **Sino-US Academy of Sciences Symposium on Frontiers of Science (Beijing), August 20, 1999**
53. International Workshop on Cosmology Santa Rosa, CA, October 19, 1999
54. International Symposium on Relativistic Astrophysics, Lake Tahoe, December 17, 1999
55. International Symposium on Quantitative Challenge in Post Genomic Era, Jan. 15, 2000
56. American Biophysical Society Meeting (New Orleans), Feb. 12, 2000
57. Protein Folding Workshop (Berkeley Springs, VA), Mar. 16, 2000
58. American Physical Society Annual Meeting (Minneapolis), Mar. 20, 2000
59. Rutgers Meeting on Statistical Mechanics, Rutgers University, Dec. 15, 2000
60. Center for Advanced Study, Tsinghua University, Beijing, Dec. 27, 2000
61. American Biophysical Society Meeting, Boston, Feb. 13, 2001
62. **Invited Talk at Science and Technology Forum, Beijing, May 18, 2001**
63. Zhongshan University, Guangzhou, May 23, 2001
64. **Invited Talk at Science and High Technology Forum, Shenzhen, October 13, 2001**
65. Department of Chemistry, State University of New York at Stony Brook, Stony Brook, Oct 31, 2001
66. **Invited Talk at Science and Technology Forum, Guangzhou, December 28, 2001**
67. Shanghai University, Jan. 4, 2002
68. Nankai University, Tianjin, Jan. 8, 2002
69. Beijing University, Beijing, Jan. 13, 2002
70. American Physical Society Meeting, Indianapolis, March 17th, 2002.
71. American Chemical Society National Meeting, Orlando, April 7th, 2002
72. Institute of Molecular Science, Japan, May 6th, 2002.
73. Hong Kong University of Science and Technology, May 7th, 2002.
74. **Invited Talk at Chang An Forum, State Information Center, Beijing, May 18th, 2002.**
75. **Invited Talk at Bioinformatics Symposium, Beijing, June 30th, 2002.**
76. Protein Society Meeting, San Diego, August 18, 2002.
77. Division of Theoretical Biophysics and Center for Non Linear Study at Los Alamos National Laboratory, Oct 15th, 2002.
78. Department of Credit Management, Jilin University, Jan 5th, 2003.
- 79 Department of Chemical Engineering, Texas A&M University, Jan 21st, 2003.
- 80Department of Chemistry, State University of New York at Stony Brook, Jan 31st, 2003.
81. Department of Physics, Iowa State University, Feb 5th, 2003.
82. **Invited Talk on Biomolecular Interactions and Binding for Symposium on Physics of Biomolecular Binding of American Physical Society Annual Meeting at Austin in March 20th, 2003.**
- 83 **Organizer for the Symposium on Quantitative Risk Management and Wall Street Physics of American Physical Society Annual Meeting at Austin on March 18th, 2003.**
- 84 **Invited Talk on Single Molecule Dynamics for Symposium on Motor Proteins at American Chemical Society National Meeting at New Orleans on March 26th, 2003.**
85. Department of Chemistry, Pittsburgh University, March 31st, 2003.
- 86 **Invited Talk on Protein Folding Dynamics for the International Workshop on Proteomics: Protein Structure, Function and Interaction at Trieste, Italy on May 15th, 2003.**

87. **Invited Talk on Protein Folding on Symposium of Protein Folding Dynamics, American Chemical Society Meeting, New York, September 7th, 2003.**
88. **Invited Talk on Glassy Kinetics on Symposium of Glasses, American Chemical Society Meeting, New York, September 8th, 2003.**
89. Department of Physics, National Singapore University, October 31st, 2003.
90. Department of Chemistry, University of California at Santa Barbra, January 15th, 2004.
91. **Invited Lecture Series on Biophysics of Binding and Single Molecules, Department of Biophysics, University of Ulm, Germany, March 16-17th, 2004.**
91. D.E. Shaw Inc, New York, New York, April 21st, 2004.
92. **Invited Lecture on Intermittency Dynamics of Genes at International Workshop on Biological Networks, Lijiang, China, June 25th, 2004.**
93. Center for Theoretical Biological Physics, University of California at San Diego, August 6th, 2004.
94. Contributed Talk for the Symposium on Single Molecules of American Chemical Society National Meeting, Philadelphia, August 22-26, 2004.
95. **Colloquium in Physics Department, State University of New York at Stony Brook, September 28th, 2004.**
96. Center for Theoretical Physics, Jilin University, December 27th, 2004.
97. **Invited Talk on Protein Folding at US-Japan Conference on Protein Folding, Function and Design, Philadelphia, May 2nd, 2005**
98. **Invited Talk on Diffusion Dynamics of Protein Folding at International Conference on Protein Folding, Function and Design, Beijing, China, July 4th, 2005**
99. **Invited Talk on Biomolecular Recognition at International Energy Landscape Workshop, Telluride, CO, August 4th, 2005**
100. **Invited Talk on Single Molecule Conformational Dynamics at Single Molecule Workshop, Telluride, CO, August 12th, 2005**
101. Department of Chemistry, University of Wisconsin at Madison, Madison, Wisconsin, December 13th, 2005.
102. Department of Chemical Engineering, California Institute of Technology, January 5th, 2006.
103. **Invited Talk, Gordon Conference on Protein Folding and Dynamics, Ventura, CA, January 10th, 2006.**
104. **Colloquium, in Physics Department, Drexel University, Feb 2nd, 2006.**
105. **Invited Talk on Flexibility of Biomolecular Recognition Symposium of American Physical Society National Meeting, Baltimore, MD, March 15th, 2006.**
106. Department of Biochemistry and Cellular Biology, State University of New York at Stony Brook, March 2nd, 2006
107. Department of Pharmacology, State University of New York at Stony Brook, April 5th, 2006.
108. **Invited Talk on Conformational Dynamics of Biomolecules Symposium, Madison, WI, May 20th, 2006.**
109. Invited Talk at Synthetic Biology Retreat Meeting, SUNY at Stony Brook, May 25th, 2006.
110. Invited Talk at Computational Biology Meeting, SUNY at Stony Brook, June 22nd, 2006.
111. **Invited Talk at Statistical Physics Workshop, Taiwan, July 6, 2006.**
112. Department of Biophysics, Nankai University, China, July 10th, 2006
113. Colloquium, Department of Physics, Northeastern Normal University, China, July 14th, 2006.

114. **Organizer and Invited Talk on International Workshop on Physical Mechanisms and Landscape of Cellular Network, Telluride, CO, August 13th-17th, 2006.**
115. **Invited Talk at Single Molecule Dynamics at Single Molecule Symposium of 232th American Chemical Society National Meeting, San Francisco, CA, September 11th, 2006.**
116. **Invited Talk at Protein-Protein Interaction Symposium of 232th American Chemical Society National Meeting, San Francisco, CA, September 12th, 2006.**
117. **Invited Talk at International Workshop on Gene Regulatory Networks, Mexico, September 26th, 2006.**
118. **Invited Talk at Bridging the Scale of Molecular Conformational Dynamics at Southwest American Chemical Society Meeting, Houston, October 21st, 2006.**
119. Department of Chemistry, Clark University, October 25th, 2006.
120. **Invited Talk at Cold Spring Harbor Workshop of Engineering Principles of Cellular Networks, New York, December 4th, 2006.**
121. Institute of Chemical Biology and Drug Discovery, SUNY at Stony Brook, December 19th, 2006.
122. Institute of Theoretical Physics, Beijing, December 29th, 2006.
123. Colloquium, Department of Biology, Brookhaven National Lab, January 26, 2007
124. Department of Chemistry, University of Connecticut, February 16th, 2007.
125. Department of Chemistry, City University of New York at Queens, March 12th, 2007.
126. **Invited Talk at Workshop of Protein Conformational Dynamics, Tallahassee, Florida, February, 20th, 2007.**
127. **Invited Talk at Institute of Theoretical Physics Program on Molecular Evolution, University of California at Santa Barbra, March 26th, 2007.**
128. **Invited Talk at International Workshop on Energy Landscapes of Complex Systems. Telluride, Colorado, April 1st, 2007.**
129. **Invited Talk at Single Molecule Dynamics Workshop in Leiden University, Holland, April 18th, 2007.**
130. Harriman Business School, State University of New York at Stony Brook, May 3rd, 2007.
131. **Invited Talk at Dynamics of Complexity Symposium in Port Jefferson, New York, May 23rd, 2007.**
132. **Invited Talk at International Workshop on Conformational Dynamics of Proteins, Trieste, Italy, June 6th, 2007.**
133. **Invited Talk at Institute of Theoretical Physics Program on Genetic Switches and Oscillations, University of California at Santa Barbra, July 25th, 2007.**
134. School of Computational Science, Florida State University, August 13th, 2007.
135. **Invited Talk at Symposium on Macromolecules and Multi-Scale Dynamics, American Chemical Society Meeting at Boston, August 18th, 2007.**
136. Symposium on Single Molecules, American Chemical Society Meeting at Boston, August 20th, 2007.
137. Department of Chemistry, SUNY at Stony Brook, December 6th, 2007.
138. **Invited Talk at Theoretical and Computational Biology Symposium at Houston, December 10th, 2007.**
139. **Invited Talk at International Meeting on Gene Regulatory Networks, Saint Carlos, Brazil, February 14th, 2008.**
140. **Invited Lectures at Greater Boston Area Theoretical Chemistry Lecture Series, Boston, February 22th, 2008.**

141. **Invited Talk at Symposium on Mathematical Systems Biology: Spatial Dynamics of Growth and Signaling, UC Irvine, February 29th, 2008.**
142. **Invited Talk at Symposium on Multi-Scale Modeling of Biological Systems of American Physical Society Meeting, New Orleans, March 10th, 2008.**
143. **Invited Talk at Institute of Theoretical Physics Program on Information Processing, Beijing, March 14th, 2008.**
144. Keck Center for Interdisciplinary Bioscience Training, Houston, April 11th, 2008.
145. Department of Molecular Biology, John's Hopkins University, April 30th, 2008.
146. **Organizer and Invited Talk at Telluride Meeting on Characterizing the Landscape from Biomolecules to Cellular Networks. July 8, 2008.**
147. **Invited Talk at Telluride Meeting on Algorithmic Development on Enhanced Sampling. July 13th, 2008.**
148. Contributed Talk at Quantitative Biology Symposium, Santa Fe, August 10th, 2008
149. **Invited Talk at Protein Folding Symposium of ACS Annual Meeting, Philadelphia, August 21st, 2008.**
150. **Invited Physics Colloquium, Northeastern Normal University, January 5th, 2009.**
151. Laufer Center for Computational Biology/Genomics, SUNY at Stony Brook, Jan 30th, 2009.
152. Department of Molecular and Cellular Biology, SUNY at Stony Brook, Feb 26th, 2009
153. **Invited Talk at American Biophysical Society Meeting, Boston, February 28th, 2009.**
154. Department of Physics at University of Missouri, April 27th, 2009.
155. Department of Chemistry at Iowa State University, May 1, 2009
156. **Invited Talk at Telluride Meeting on Single Molecules, June 23rd, 2009.**
157. **Invited Talk at International Meeting on Single Molecules, Beijing, July 8th, 2009.**
158. **Organizer and Invited Talk at Institute of Theoretical Physics Program on Protein Function and Dynamics, Beijing, August 5th, 2009.**
159. **Invited Talk at Symposium on Protein Conformation Dynamics of American Chemical Society Annual Meeting, Washington D.C. August 17th, 2009.**
160. Seminar at Center of Systems Biology, Duke University, September 23st, 2009.
161. Seminar at Center for Physics and Biology, Rockefeller University, September 29th, 2009.
162. **Invited Talk at International Symposium on Biophysics, Diyarbakir, Turkey, October 5th, 2009.**
163. **Invited Talk at Center for Theoretical Biological Physics, University of California at San Diego, La Jolla, January 15th, 2010.**
164. **Invited Talk at Department of Systems Biology, Harvard Medical School, Boston, Feb. 19th, 2010.**
165. **Invited Talk at Symposium on Biological Networks at American Physical Society Meeting, Portland, OR, March 18th, 2010.**
166. **Invited Talk at Symposium of Conformational Sampling at American Chemical Society Meeting, San Francisco, CA, March 23rd. 2010.**
167. Seminar at Department of Biochemistry and Molecular Biology at University of California at Irvine, May 9th, 2010.
168. **Organizer and Invited Talk at Telluride Workshop on Characterizing Landscapes of Biomolecules and Cell Networks, Telluride, CO, June 15th.**
169. **Invited Talk at Telluride Workshop on Algorithmic Development on Enhanced Sampling, Telluride, CO, June 16th.**
170. **Invited Talk at Telluride Workshop on Searching for Reaction Coordinates and Order Parameters, Telluride, CO, June 21th.**

171. **Invited Talk at Telluride Workshop on Protein Folding and Dynamics: From experiment to theory , Telluride, CO, June 23th.**
172. **Organizer and Invited Talk at Research Program of Emergent Behaviour of Biomolecular Ensembles and Networks at Kavli Institute of Theoretical Physics in China, Beijing July 5, 2010.**
173. **Organizer and Invited Talk at Workshop on Biomolecular Networks-Principles and Dynamics at Kavli Institute of Theoretical Physics in China, Beijing July 30th , 2010.**
174. **Organizer and Invited Talk at Workshop on Physics of Cell Functionality at Kavli Institute of Theoretical Physics in China, Beijing, August 19th , 2010.**
175. Seminar at Institute of Biophysics, Nanjing University, Nanjing, China, August 3rd, 2010.
176. Seminar at Department of Chemical Physics, University of Science and Technology, Hefei, China, August 4th, 2010.
177. Seminar at Department Bioengineering, Dalian University of Science and Technology, Dalian, China, August 9th, 2010.
178. Seminar at State Key Laboratory of Molecular Reaction Dynamics, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China, August 10th, 2010.
179. Seminar at Physics Department at Jilin University, Changchun, China, August 18th, 2010.
180. **Invited Talk at Symposium of Multiscaled conformational dynamics at American Chemical Society Meeting, Boston, MA, August 23rd. 2010.**
181. Seminar at Department of Biochemistry and Molecular Biology, Albert Einstein College of Medicine, New York, October 28th, 2010.
182. **Invited Talk at Gordon Conference on Stochastic Physics in Biology, Ventura, CA, Jan 26th, 2011.**
183. Seminar at Department of Physics and Mathematics, George Washington University, May 7th, 2011.
184. **Invited Talk at 105th Statistical Mechanics Meeting at Rutgers University, New Jersey, May 10th, 2011.**
185. **Invited Talk at Telluride Workshop on The Complexity of Dynamics and Kinetics in Many Dimensions, Telluride, CO, June 21st.**
186. **Invited Talk at Telluride Workshop on Single Molecule Dynamics, Telluride, CO, June 27th.**
187. **Invited Talk at Telluride Workshop on Exploring Energy Landscapes: From Single Molecuels to Mesoscopic Models, Telluride, CO, July 25th.**
188. Seminar at Department of Chemistry, Bowling Green State University, Ohio, Sep 9th, 2011.
189. **Invited Talk at 17th International Biophysics Congress, Beijing, November 2nd, 2011.**
190. **Invited Talk at Gordon Conference on Protein Folding Dynamics, Ventura, California, January 10th, 2012.**
191. **Invited Talk at Systems Biology Symposium of American Physical Society, Boston, Feb 28th, 2012.**
192. **Invited Talk at Single Molecule Symposium of American Chemical Society, San Diego, Mar 28th, 2012.**
193. **Organizer and Invited Talk at Telluride Workshop on Characterizing Energy Landscapes of Biomolecules and Cellular Networks. Telluride, June 12th, 2012.**
194. **Invited Talk at Telluride Workshop on Searching for Reaction Coordinates and Order Parameters, Telluride, CO, June 18th.**
195. **Invited Talk at Telluride Workshop on Protein Folding and Dynamics: From experiment to theory , Telluride, CO, June 19th.**

196. **Invited Talk at Worldwide Chinese Computational Biology and Molecular Simulation Conference. Dalian, China, August 13th, 2012.**

197. Guest lecture on drug discovery at Institute of Chemical Biology and Drug Discovery, Stony Brook University October 8th, 2012.

198. Guest lecture on protein folding for biochemistry program at Stony Brook University, October 11th, 2012.

199. Guest lectures for graduate students on fluctuations in systems biology, Laufer Center of Physical and Quantitative Biology at Stony Brook University. November 6th and 8th, 2012.

200. Seminar on System Biology at Department of Physics, Ohio State University, Columbus, OH, December 7th, 2012.

201. Seminar on Evolution at Institute of Origin at McMaster University, Canada, January 28th, 2013.

Referees for Professional Journals:

Proceedings of National Academy of Sciences

Physical Review Letters

Physical Review E

Journal of Chemical Physics

Chemical Physics Letters

Journal of American Chemical Society

Journal of Physical Chemistry B

Journal of Chemical Theory and Computation

Journal of Theoretical and Computational Chemistry

Physical Biology

Biophysical Journal

PLOS Computational Biology

Journal of Theoretical Biology

Journal of Molecular Biology

Molecular Systems Biology

Mathematical Biosciences

Proteins

PLOS One

Nanotechnology

PUBLICATIONS (125 PAPERS):

125. H.D. Feng, **J. Wang**, “A new mechanism of stem cell differentiation through slow binding/unbinding of regulators to genes”, **Sci. Rep.** 2, 550 (2012).
124. F. Zhang, L. Xu, K. Zhang, E.K. Wang, **J. Wang**, “The potential and flux landscape theory of evolution”. **J. Chem. Phys.** 137, 065102 (2012).
News Report from American Insitute of Physics and American Association for the Advancement of Science.
123. **J. Wang**, R. J. Oliveira, X.K. Chu, P. C. Whitford, J. Chahine, W. Han, E.K. Wang, J. N. Onuchic, V. B.P. Leite, “Topography of funneled landscapes determines the thermodynamics and kinetics of protein folding”. **Proc. Natl. Acad. Sci.** 109 (39), 15763–15768 (2012).
122. Y. Wang, X.K. Chu, Z.C. Suo, E.K. Wang, **J. Wang**, “Multidomain Protein Solves the Folding Problem by Multifunnel Combined Landscape: Theoretical Investigation of a Y-Family DNA Polymerase”. **J. Am. Chem. Soc.** 134, 13755–13764(2012).
121. X.K. Chu, Y. Wang, L.F. Gan, Y. W. Bai, W. Han, E.K. Wang, **J. Wang**, “Importance of electrostatic interactions in the association of intrinsically disordered histone chaperone Chz1 and histone H2A.Z-H2B”. **PLoS Comp. Biol.** 8 (7), e1002608 (2012).
120. C. H. Li, E. K. Wang, and **J. Wang**, “Landscape topography determines global stability and robustness of a metabolic network”. **ACS Synthetic Biology.** 1 (6), 229–239 (2012).
119. C.H. Li, E.K. Wang, and **J. Wang**, “ Potential flux landscapes determine the global stability of a Lorenz chaotic attractor under intrinsic fluctuations”. **J. Chem. Phys.** 136, 194108 (2012).
118. Z. Hensel, H. Feng, B. Han, C. Hatem, **J. Wang**, J. Xiao, “Stochastic expression dynamics of transcription factor revealed by single-molecule noise analysis”. **Nature. Struct. Mol. Biol.** 19, 797–802 (2012).
Journal Cover Page Article.
117. W.X. Xu, Z.Z. Lai, R. J. Oliveira, V. B. P. Leite, **J. Wang**, “Configuration-Dependent Diffusion Dynamics of Downhill and Two-State Protein Folding”. **J. Phys. Chem. B.** 116 (17), 5152–5159(2012)
116. Y. Wang, C. Tang, E. Wang, **J. Wang**, “Exploration of Multi-State Conformational Dynamics and Underlying Global Functional Landscape of Maltose Binding Protein”. **PLoS Comp. Biol.** 8(4): e1002471 (2012).

115. L.F. Xu, H.L. Shi, H.D. Feng, **J. Wang**, “The energy pump and the origin of the non-equilibrium flux of the dynamical systems and the networks”. **J. Chem. Phys.** 136, 165102 (2012).
114. Z.Q. Yan, **J. Wang**, “Specificity quantification of biomolecular recognition and its implication for drug discovery”. **Sci. Rep.** 2,309 (2012).
113. H. Feng, B. Han, **J. Wang**, “Landscape and Global Stability of Nonadiabatic and Adiabatic Oscillations in a Gene Network”. **Biophys. J.** 102(5),1001-1010 (2012).
112. H. Feng, Z. Hensel, **J. Wang**, J. Xiao, “Analytical calculation of protein production distributions in models of clustered protein expression”. **Phys. Rev. E.** 85(3), 031904 (2012).
111. J.T. Ren, J.H. Wang, **J. Wang**, “Contribution of potassium ion and split modes of G-quadruplex to the sensitivity and selectivity of label-free sensor toward DNA detection using fluorescence”. **Biosens Bioelectron.** 31(1), 316-322 (2012).
110. J.T. Ren, J.H. Wang, L. Han, E.K. Wang and **J. Wang**, “Kinetically grafting G-quadruplexes onto DNA nanostructures for structure and function encoding via a DNA machine”. **ChemComm.** 47, 10563-10565 (2011).
109. H. Feng, **J. Wang**, “Potential and flux decomposition for dynamical systems and non-equilibrium thermodynamics: Curvature, gauge field, and generalized fluctuation-dissipation theorem”. **J. Chem. Phys.** 135, 234511 (2011).
108. Q. Lu, N. Nassar, **J. Wang**, “A mechanism of catalyzed GTP hydrolysis by Ras Protein through magnesium ion”. **Chem. Phys. Lett.** 516, 233-238 (2011).
107. Z.Z. Lai, Q. Lu, **J. Wang**, “Exploring the Thermodynamic Landscape, Kinetics, and Structural Evolution of a Protein Conformational Transition with a Microscopic Double-Well Model”. **J. Phys. Chem. B**, 115 (14), pp 4147–4159(2011).
106. **Wang J**, X.K. Chu, Y. Wang, S. Hagen, W. Han, E.K. Wang “Multi-Scaled Explorations of Binding-Induced Folding of Intrinsically Disordered Protein Inhibitor IA3 to its Target Enzyme”. **PLOS Comp. Biol.** 7(4): e1001118 (2011).
105. **J. Wang**, K. Zhang, L. Xu, E.K. Wang, “Quantifying the Waddington landscape and biological paths for development and differentiation”. **Proc. Natl. Acad. Sci. USA.** 108(20):8257-8262(2011).
104. **J. Wang**, C.H. Li, and E.K. Wang, “A FPT Approach for Predicting Protein Localization from Yeast Genomic Data”. **PLoS One** 6, e14449:1-11 (2011).
103. C.H. Li, E.K. Wang, and **J. Wang**, “Landscape, Flux, Correlation, Resonance, Coherence, Stability and Key Network Wirings of Stochastic Circadian Oscillation”. **Biophys. J.** 101, 1335-1344(2011).

102. C.H. Li, E.K. Wang, and **J. Wang**, “Landscape and flux decomposition for exploring global natures of non-equilibrium dynamical systems under intrinsic statistical fluctuations”. **Chem. Phys. Lett.** 505, 75-80 (2011).
101. C.H. Li, E.K. Wang, and **J. Wang**, “Potential Landscape and Probabilistic Flux of a Predator-Prey Network”. **PLoS One** 6, e17888:1-9 (2011).
100. H.D. Feng and **J. Wang**, “Correlation function, response function and effective temperature of gene networks”, **Chem. Phys. Lett.** 510, 267 (2011).
99. H.D. Feng and **J. Wang**, “A new formulation of two-time correlation functions of Markov chains applied to gene networks”, **Chem. Phys. Lett.** 501, 562 (2011).
98. H.D. Feng, Bo Han, and **J. Wang**, “Adiabatic and Non-Adiabatic Non-Equilibrium Stochastic Dynamics of Single Regulating Genes”, **J. Phys. Chem. B**, 115, 1254 (2011).
97. J.T. Ren, H.X. Qin, J.H. Wang, N. W. Luedtke, E.K. Wang, **J. Wang**, “Label-free detection of nucleic acids by turn-on and turn-off G-quadruplex-mediated fluorescence”. **Analytical and Bioanalytical Chemistry**, 399(8), 2763-2770(2011)
96. M. Zhou, X.L. Zheng, **J. Wang**, S.J. Dong, “ ‘Nondestructive’ biocomputing security system based on gas-controlled biofuel cell and potentially used for intelligent medical diagnostics”. **Bioinformatics** 27(3): 399-404(2011).
95. **J. Wang**, K. Zhang, E.K. Wang, “Kinetic paths, time scale, and underlying landscapes: A path integral framework to study global natures of nonequilibrium systems and networks”. **J. Chem. Phys.** 133, 125103 (2010).
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