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Professional experiences

Research Scientist, March 2005 -
Senior Member of the Technical Staff, May 2002 – March 2005
Member of the Technical Staff, May 2000 – May 2002
Principal Investigator
The Aerospace Corporation, Los Angeles, California.

Senior Research Associate, Aug. 1997 – April 2000
Research Associate, Aug. 1993 – Aug. 1997
Co-Investigator
Dept. of Physics, University of Connecticut, Storrs, Connecticut.

Visiting researcher Oct. 1997 – Jan. 1998
Laser Cooling and Trapping Group, Atomic Physics Division, National Inst. of Standards and
Technology, Gaithersburg, Maryland.

Postdoctoral Fellow Aug. 1991 – Aug. 1993
School of Physics, Georgia Inst. of Tech., Atlanta, Georgia.

Research Assistant June, 1987 – Aug. 1991
Iowa Laser Facility, University of Iowa, Iowa City, Iowa.

Assistant Research Scientist Jan. 1985 – May, 1987
National Inst. of Metrology, Beijing, China.

Education

Postdoctoral fellow
Aug. 1991 - Aug. 1993, Georgia Institute of Technology, Atlanta, Georgia (Advisor: James L. Gole).

Ph.D in Physics
Aug. 1991, University of Iowa, Iowa City, Iowa (Advisor: William C. Stwalley).

M.S. in Optics
Dec. 1984, Chinese Academy of Science, Shanghai, China.

B. S. in Optical Engineering
Jan. 1982, Zhejiang University, Hangzhou, China.

Research interests

Experimental atomic and molecular physics, high-precision laser spectroscopy and frequency standards, photoassociation of laser-cooled atoms, ultracold molecules and molecular BEC.

Publications

Author or co-author of 55 peer-reviewed publications (see attached publication list)

Professional Memberships

American Physical Society
Optical Society of America

List of publications (last updated on 10/1/2005)

55. H. Wang, W. F. Buell and G. Iyanu, "Laser-Cooled Continuous Cs-Beam Master Oscillator", in *Proc. 2005 Joint IEEE International Frequency control Symposium and Precise Time and Time Interval (PTTI) Systems and Applications Meeting*, in press (2005).
54. H. Wang and G. Iyanu, "Formation of Ultracold Ground-State RbCs via Photoassociation", in *Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science and Photonics Applications, Systems and Technologies 2005 (Optical Society of America, Washington, DC, 2005)*, QThA4.
53. D. Wang, J. Qi, M. F. Stone, O. Nikolayeva, B. Hattaway, S. D. Gensmer, H. Wang, W. T. Zemke, P. L. Gould, E. E. Eyler, and W. C. Stwalley, "The Photoassociative Spectroscopy, Photoassociative Molecule Formation, and Trapping of Ultracold $^{39}\text{K}^{85}\text{Rb}$ ", **Eur. Phys. J. D**, 31, 165-177(2004).
52. D. Wang, J. Qi, M. F. Stone, O. Nikolayeva, H. Wang, B. Hattaway, S. D. Gensmer, P. L. Gould, E. E. Eyler, and W. C. Stwalley, "Photoassociative Production and Trapping of Ultracold KRb Molecules", **Phys. Rev. Lett.** 93, 243005(2004).
51. H. Wang and W. F. Buell, "Velocity Tunable Magneto-Optical-Trap-Based Cold Cs Atomic Beam", **J. Opt. Soc. Am. B** 20, 2025-2030(2003).
50. M. Pichler, H. Chen, H. Wang, W. C. Stwalley, A. J. Ross, F. Martin, M. Aubert-Frecon, and I. Russier-Antoine, "Photoassociation of ultracold K atoms: observation of high lying levels of the $1_g - (1)^1\Pi_g$ molecular state of K_2 ", **J. Chem. Phys.** 118, 7837(2003).
49. W. F. Buell and H. Wang, "A Compact, Continuous Beam Cold Atom Clock for Satellite Applications," in *Proc. 33rd Annual Precise Time and Time Interval (PTTI) Systems and Applications Meeting* (US Naval Observatory, Washington, DC), p.p. 33-43 (2002).
48. T. Bergeman, P. S. Julienne, C. J. Williams, E. Tiesinga, M. Riad Manaa, H. Wang, P. L. Gould, and W. C. Stwalley, "Predissociations in the $\text{K}_2 0_u^+$ and 1_g states", **J. Chem. Phys.** 117, 7491-7505(2002).

47. H. Wang and W. F. Buell, "Development of a MOT-Based Continuous Cold Cs-Beam Atomic Clock", in **OSA Trends in Optics and Photonics (TOPS) Vol. 74, Quantum Electronics and Laser Science Conference**, OSA Technical Digest, Postconference Edition (Optical Society of America, Washington DC, 2002), pp 93-94.
46. F. Fatemi, K. Jones, H. Wang, I. Walmsley and P. D. Lett, "Dynamics of Photo-Induced Collisions of Cold Atoms Probed with Picosecond Laser Pulses, **Phys. Rev. A** 64, 033421 (2001).
45. R. Ferber, E. A. Pazyuk, A. V. Stolyarov, A. Zaitsevskii, P. Kowalczyk, H. M. Chen, H. Wang, and W. C. Stwalley, "The $c^3\Sigma^+$, $b^3\Pi$, and $a^3\Sigma^+$ States of NaK Revisited", **J. Chem. Phys.** 112, 5740 (2000).
44. H. Wang, A. N. Nikolov, J. R. Ensher, P. L. Gould, E. E. Eyler, W. C. Stwalley, J. P. Burke, Jr., J. L. Bohn, C. H. Greene, E. Tiesinga, C. J. Williams, P. S. Julienne, "Ground-State Scattering Lengths for Potassium Isotopes Determined by Double-Resonance Photoassociative Spectroscopy of Ultracold ^{39}K ", **Phys. Rev. A** 62, 052704(2000).
43. A. N. Nikolov, J. R. Ensher, E. E. Eyler, H. Wang, W. C. Stwalley and P. L. Gould, "Efficient Production of Ground-State Potassium Molecules at Sub-mK Temperatures by Two-Step Photoassociation", **Phys. Rev. Lett.** 84, 246(2000).
42. C. J. Williams, E. Tiesinga, P. S. Julienne, H. Wang, W. C. Stwalley, and P. L. Gould, "Determination of the scattering lengths of ^{39}K from 1_u photoassociation lineshapes", **Phys. Rev. A** 60, 4427(1999).
41. J. P. Burke, Jr., C. H. Greene, John L. Bohn, H. Wang, P. L. Gould and W. C. Stwalley, "Determination of ^{39}K Scattering Lengths Using Photoassociation Spectroscopy", **Phys. Rev. A** 60, 4417(1999).
40. J. L. Bohn, J. P. Burke, C. H. Greene, H. Wang, P. L. Gould and W. C. Stwalley, "Collisional Properties of Ultracold Potassium: Consequences for Degenerate Bose and Fermi Gases", **Phys. Rev. A** 59, 3660(1999).
39. W. C. Stwalley and H. Wang, "Photoassociation of Ultracold Atoms: A New Spectroscopic Technique", **J. Mol. Spectrosc.** 195, 194-228 (1999).
38. A. N. Nikolov, E. E. Eyler, X. T. Wang, J. Li, H. Wang, W. C. Stwalley, and P. L. Gould, "Observation of Ultracold Ground-state Potassium Molecules", **Phys. Rev. Lett.** 82, 703(1999).
37. H. Wang, P. L. Gould and W. C. Stwalley, "Fine-Structure Predissociation of Ultracold Photoassociated $^{39}\text{K}_2$ Molecules Observed by Fragmentation Spectroscopy", **Phys. Rev. Lett.** 80, 476-479(1998).
36. H. Wang and W. C. Stwalley, "Ultracold Photoassociative Spectroscopy of Heteronuclear Diatomic Molecules", **J. Chem. Phys.** 108, 5767-5771(1998).
35. R. Cote, A. Dalgarno, H. Wang and W. C. Stwalley, "Potassium Scattering Lengths and Prospects for Bose-Einstein Condensation and Sympathetic Cooling", **Phys. Rev. A** 57, R4118-R-4121(1998).
34. X. T. Wang, H. Wang, P. L. Gould, W. C. Stwalley, E. Tiesinga and P. Julienne, "Observation of the Pure Long-Range 1_u State of an Alkali Dimer by Photoassociative Spectroscopy", **Phys. Rev. A.**, 57, 4600-4603(1998).
33. J. Li, J. M. Zhang, H. Wang and W. C. Stwalley, "Observation of the $5^1\Pi_u$, $6^1\Sigma_u^+$, and $7^1\Sigma_u^+$ states of Na_2 through a Franck-Condon Window by All-Optical Triple Resonance Spectroscopy", **J. Chem. Phys.** 109, 102-107(1998).

32. H. Wang, X. T. Wang, P. L. Gould and W. C. Stwalley, "Optical-Optical Double Resonance Photoassociative Spectroscopy of Ultracold ^{39}K Atoms Near Highly-Excited Asymptotes", **Phys. Rev. Lett.** 78, 4173-4176(1997).
31. H. Wang, J. Li, X. T. Wang, C. J. Williams, P. L. Gould and W. C. Stwalley, "Precise Determination of the Dipole Matrix Element and Radiative Lifetime of the ^{39}K 4p State by Photoassociative Spectroscopy", **Phys. Rev. A** 55, R1569-R1572(1997).
30. H. Wang, P. L. Gould and W. C. Stwalley, "Long-Range Interaction of the $^{39}\text{K}(4s) + ^{39}\text{K}(4p)$ Asymptote by Photoassociative Spectroscopy. I: The 0_g^- Pure Long-Range State and the Long-Range Potential Constants", **J. Chem. Phys.** 106, 7899-7912(1997).
29. J. T. Kim, H. Wang, J. T. Bahns and W. C. Stwalley, "The Exotic Potential Curve of the $3^1\Pi_g$ State of K_2 by Optical-Optical Double Resonance Spectroscopy", **J. Mol. Spectrosc.** 181, 389-393(1997).
28. H. Wang, P. L. Gould and W. C. Stwalley, "Photoassociative Spectroscopy of Pure Long-range Molecules", **Z. Phys. D**, 36, 317-323(1996).
27. H. Wang, P. L. Gould and W. C. Stwalley, "Photoassociative Spectroscopy of Ultracold ^{39}K Atoms in a High-Density Vapor-Cell Magneto-Optical Trap", **Phys. Rev. A** 53, R1216-R1219(1996).
26. S. Maleki, K. M. Jones, S. Bize, P. D. Lett, C. J. Williams, H. Richling, E. Tiemann, H. Wang, P. L. Gould and W. C. Stwalley, "Precise and Direct Determination of the Ground-state Dissociation Energy of Na_2 ", **Phys. Rev. A** 54, R1006-R1009(1996).
25. G. Zhao, W. T. Zemke, J. T. Kim, B. Ji, H. Wang, J. T. Bahns, W. C. Stwalley, L. Li, A. M. Lyyra, and C. Amiot, "New Measurements of the $a^3\Sigma_u^+$ of K_2 and Improved Analysis of Long-Range Dispersion and Exchange Interactions between Two K Atoms", **J. Chem. Phys.** 105, 7976-7985(1996).
24. J. L. Gole, H. Wang, J. S. Joiner, and D. E. Dawson, "Confirmation of Long-range Collisional Complex Stabilization through the Controlled Relaxation of High Internal Excitation.", **J. Chem. Phys.**, 102, 7437-7447(1995).
23. B. Ji, C. C. Tsai, T. J. Whang, A. M. Lyyra, H. Wang, J. T. Bahns, W. C. Stwalley and R. J. LeRoy, "Determination of the Long-range Potential and Dissociation Energy of the $1^3\Delta_g$ State of Na_2 ", **J. Chem. Phys.** 103, 7240-7254(1995).
22. J. T. Kim, C. C. Tsai, H. Wang, J. T. Bahns and W. C. Stwalley, "The $nd^1\Delta_g$ ($n=11-15$) Rydberg States of K_2 Studied by Optical-optical Double Resonance Spectroscopy and Space Limited Diode Ionization Detector", **J. Mol. Spectrosc.** 172, 183-193(1995).
21. J. T. Kim, H. Wang, J. T. Bahns, W. C. Stwalley, "The $3^1\Pi_g$ and $3^1\Delta_g$ States of $^{39}\text{K}_2$ Studied by Optical-Optical Double Resonance Spectroscopy", **J. Chem. Phys.** 102, 6966-6974(1995).
20. J. T. Kim, H. Wang, C. C. Tsai, J. T. Bahns, W. C. Stwalley, G. Jong, A. M. Lyyra, "Observation of $4^3\Sigma_g^+$, $3^3\Pi_g$, $2^3\Delta_g$, and $b^3\Pi_u$ States of $^{39}\text{K}_2$ by Perturbation Facilitated Optical-optical Double Resonance Spectroscopy", **J. Chem. Phys.** 102, 6646-6652(1995).
19. C. C. Tsai, J. T. Bahns, H. Wang, T. J. Whang and W. C. Stwalley, "Optical-Optical Double Resonance Spectroscopy of the $4^1\Sigma_g^+$ "Shelf" State of Na_2 Using an Ultrasensitive Ionization Detector", **J. Chem. Phys.**, 101, 25-30(1994).
18. H. Wang and J. L. Gole, "A Chemiluminescent and Laser Induced Fluorescent Probe of a New $A^1\Omega = 1$ State of Gaseous AgF ", **J. Mol. Spectrosc.** 161, 28-43(1993).

17. H. Wang and J. L. Gole, "Laser Induced Fluorescence and Radiative Lifetimes of the Low-lying Electronic States of Gaseous AgF", **J. Chem. Phys.** 98, 9311-9319(1993).
16. K. K. Shen, H. Wang and J. L. Gole, "Evidence for Continuous Visible Chemical Lasing from the Fast Near Resonant Energy Transfer Pumping of Atomic Sodium", **IEEE. J. Quantum Electronics**, 29., 2346-2355(1993).
15. C. C. Tsai, J. T. Bahns, T. J. Whang, H. Wang, W. C. Stwalley, and A. M. Lyyra, "Optical-Optical Double Resonance Spectroscopy of the $^1\Sigma_g^+$ "Shelf" States and $^1\Pi_g$ States of Na₂ using Ultrasensitive Ionization Detector", **Phys. Rev. Lett.** 71, 1152-1155(1993).
14. H. Wang, William C. Stwalley and A. Marjatta Lyyra, "Assignment of the Diabatic and Adiabatic Atomic Asymptotic Limits of K₂ Rydberg States", **J. Chem. Phys.** 96, 7965-7972(1992).
13. G. Jong, H. Wang, C. C. Tsai, W. C. Stwalley and A. M. Lyyra, "Study of the $^{39}\text{K}_2$ Rydberg $^1\Delta_g$ States by cw Optical-Optical Double Resonance Spectroscopy", **J. Mol. Spectrosc.** 154, 324-344(1992).
12. H. Wang, T. J. Whang, A. M. Lyyra, L. Li and W. C. Stwalley, "Study of the $4^1\Sigma_g^+$ "Shelf" State of Na₂ by Optical-Optical Double Resonance Spectroscopy", **J. Chem. Phys.** 94, 4756 - 4764(1991).
11. H. Wang, J. X. Wang, T. J. Whang, A. M. Lyyra, P. D. Kleiber, L. Li, and W. C. Stwalley, "CW All-Optical Triple Resonance Spectroscopy and State-Selected Photodissociation of Na₂ and K₂", **Post-deadline paper QELS'91**, May, 1991, Baltimore, MD.
10. A. M. Lyyra, H. Wang, T. J. Whang, W. C. Stwalley, and L. Li "CW All-Optical Triple Resonance (AOTR) Spectroscopy", **Phys. Rev. Lett.** 66, 2724-2727(1991).
9. J. X. Wang, H. Wang, P. D. Kleiber, A. M. Lyyra and W. C. Stwalley, " State-Selected Photodissociation of the $B^1\Pi_u$ State of K₂ by All-Optical Triple Resonance Spectroscopy", **J. Phys. Chem.**, 95, 8040-8044(1991).
8. T. J. Whang, H. Wang, A. M. Lyyra, L. Li and W. C. Stwalley, " Optical-Optical Double Resonance Spectroscopy of the Na₂ $2^1\Pi_g$ State", **J. Mol. Spectrosc.** 145, 112-122(1991).
7. W. C. Stwalley, P. D. Kleiber, K. M. Sando, A. M. Lyyra, L. L, S. Ananthamurthy, S. Bililign, H. Wang, J. X. Wang and V. Zafirooulos, "Metal-Metal and Metal-Hydrogen Reactive Transition States", **Faraday Discuss. Chem. Soc.**, 91, 97-110(1991).
6. L. Li, A. M. Lyyra, H. Wang and W. C. Stwalley, " Highly State-Selective Collisional Energy Transfer between $^1\Delta_g$ and $^1\Sigma_g^+$ Rydberg States in K₂", **Chem. Phys. Lett.** 179, 417-421(1991).
5. A. M. Lyyra, W. T. Luh, L. Li, H. Wang and W. C. Stwalley, "The $A^1\Sigma_u^+$ State of the Potassium Dimer", **J. Chem. Phys.** 92, 43-50(1990).
4. H. Wang, L. Li, A. M. Lyyra and W. C. Stwalley, " CW Optical - Optical Double - Resonance Excitations of $^{39}\text{K}_2$ Rydberg States", **J. Mol. Spectrosc.** 137, 304-311(1989).
3. A. M. Lyyra, H. Wang, L. Li, W. T. Luh, V. Zafirooulos and W.C.Stwalley, " OODR Fluorescence and Polarization Spectroscopy of K₂: Rydberg States and the $A^1\Sigma_u^+$ State", **Advances in Laser Science - IV**, American Institute of Physics, New York 1989, p. 572-577.
2. Zhao Ke-gong, Li Cheng-yang, Xu Jei and Wang He, " I₂-Stabilized He - Ne Laser at 640nm ", **Acta of Metrology of China** 5, No.2, 1987. (In English)

1. H. Wang and D. Y. Fan, " Generation of High-Power Nanosecond Laser Pulses with Continuously Adjustable Pulse Width using Intracavity Self-injection and Ferrite Transmission Lines" , **Proc. CLEO'84**, 19-22 June, 1984, Anaheim, California, p. 38-39.

Seminars, workshops and Conferences

32. H. Wang, W. F. Buell and G. Iyanu, "Laser-Cooled Continuous Cs-Beam Master Oscillator", **2005 Joint IEEE International Frequency control Symposium and Precise Time and Time Interval (PTTI) Systems and Applications Meeting**, 29-31 August 2005, Vancouver, BC, Canada.
31. H. Wang, "Formation of Ultracold Ground-State RbCs via Photoassociation", invited talk at **Workshop on Theory of Ultracold Molecules**, Telluride, Colorado, 7 July 2005.
30. H. Wang and G. Iyanu, "Formation of Ultracold Ground-State RbCs via Photoassociation", **Quantum Electronics and Laser Science Conference (QELS)**, May 26, 2005, Baltimore, Maryland, paper no: QThA4.
29. H. Wang and G. Iyanu, "Formation of Ultracold Ground-State RbCs via Photoassociated $1^1\Pi$ State", **American Physical Society (APS) March Meeting**, March 21 – 25, 2005, Los Angeles, California, paper no: R1 58.
28. H. Wang, "Towards Making Ultracold Heteronuclear RbCs Molecules via Photoassociation", **DAMOP 2003**, May 20 – 24, 2003, Boulder, Colorado, paper No. J1.025.
27. H. Wang, "Formation of Ultracold Heteronuclear Molecules by Photoassociation of Laser-cooled Atoms", invited talk, **OSA Annual Meeting/LS-XVIII**, Sep. 29 – Oct. 3, 2002, Orlando, Florida.
26. H. Wang and W. F. Buell, "Development of a MOT-Based Continuous Cold Cs-Beam Atomic Clock", **QELS 2002**, May 19-24, 2002, Long Beach, California, (2002).
25. H. Wang, "Transition Schemes of Making Ultra-Cold Heteronuclear Diatomic Molecules by Photoassociation of Laser-Cooled Atomic Mixtures", **OSA Annual Meeting/ILS-XVII**, Oct. 14 – 18, 2001, Long Beach, California.
24. H. Wang, "Double Resonance Photoassociative Spectroscopy of Laser Cooled Potassium Atoms", **Symposium on Very Low Temperature Spectroscopy and Dynamics**, 220th American Chemical Society National Meeting, Aug. 20 – 24, 2000, Washington D.C.
23. H. Wang, "Collisions and Photoassociation of Laser Cooled Potassium Atoms", Electronics and Photonics Laboratory Seminar, **The Aerospace Corporation**, El Segundo, California, Nov. 18, 1999.
22. H. Wang, W. C. Stwalley, A. N. Nikolov, E. E. Eyler, P. L. Gould, J. P. Burke, Jr., J. L. Bohn, C. H. Greene, E. Tiesinga, C. J. Williams, P. S. Julienne, "Double-Resonance Photoassociative Spectroscopy of Ultracold ^{39}K Atoms near the Lowest Asymptote", **APS Centennial Meeting/DAMOP'99**, Atlanta, Georgia, March 20-26 1999 .
21. H. Wang and W. C. Stwalley, "Generation of Ultracold ($T < 1\text{mK}$) Ground-state Heteronuclear Alkali Dimers by Heteronuclear Photoassociation of Ultracold Atoms", **APS Centennial Meeting/DAMOP'99**, Atlanta, Georgia, March 20-26 1999.
20. H. Wang, "Photoassociative spectroscopy of laser-cooled ^{39}K atoms and prospects of making ultracold ground-state heteronuclear molecules; **Atomic and Molecular Physics Seminar, laboratoire Aime Cotton**, Orsay, France, March 10, 1999.

19. H. Wang and W. C. Stwalley, "Generation of Ultracold ($T < 1\text{mK}$) Ground-state Heteronuclear Alkali Dimers by Heteronuclear Photoassociation of Ultracold Atoms", **Workshop on Cold Atomic Collisions: Formation of Cold Molecules, Centre de Physique des Houches**, Les Houches, France, March 1 - 5, 1999.
18. H. Wang, "Long-range Interatomic Interactions Studied by Photoassociation of Laser-cooled Atoms", **Atomic Physics Seminar**, Department of Physics, **University of Virginia**, Charlottesville, Virginia, Feb. 8, 1999.
17. H. Wang and W. C. Stwalley, "Ultracold Photoassociative Spectroscopy of Heteronuclear Alkali-Metal Diatomic Molecules", **International Symposium on Molecular Spectroscopy**, Ohio State University, Columbus, Ohio, June 15-19, 1998.
16. H. Wang, P. L. Gould and W. C. Stwalley, "Fine-Structure Predissociation of Ultracold Photoassociated $^{39}\text{K}_2$ Molecules Observed by Fragmentation Spectroscopy", **International Symposium on Molecular Spectroscopy**, Ohio State University, Columbus, Ohio, June 15-19, 1998.
15. H. Wang, "Photoassociation of Laser Cooled Potassium Atoms in a High Density Magneto-Optical Trap", **Condensed Matter Seminar**, Department of Physics and Astronomy, **University of Delaware**, Newark, Delaware, Feb. 26, 1998.
14. H. Wang, "Photoassociative Spectroscopy of Laser Cooled Potassium Atoms in a High Density Magneto-Optical Trap", **Physics Colloquium**, Department of Physics & Astronomy, **University of Oklahoma**, Norman, Oklahoma, Feb. 5, 1998.
13. H. Wang, "Photoassociative Spectroscopy of Ultracold ^{39}K Atoms in a High Density 'Dark Spot' MOT", **Atomic Physics Seminar, National Institute of Standards and Technology (NIST)**, Physics Building, Room B-165, Gaithersburg, Maryland, Jan. 21, 1998.
12. H. Wang, P. L. Gould and W. C. Stwalley, "Fine-Structure Predissociation of Ultracold Photoassociated $^{39}\text{K}_2$ Molecules Observed by Fragmentation Spectroscopy", **Workshop on Collisions of Cold, Trapped Atoms**, at **JILA**, Boulder, Colorado, Nov. 10 -12, 1997.
11. H. Wang, P. L. Gould and W. C. Stwalley, "Long-Range Interactions of the $^{39}\text{K}(4s) + ^{39}\text{K}(4p)$ Asymptote by Photoassociative Spectroscopy of Ultracold $^{39}\text{K}_2$ ", **DAMOP'97**, April 18-21, 1997, Washington DC.
10. H. Wang, X. T. Wang, P. L. Gould, W. C. Stwalley, M. Marinescu and A. F. Starace, "Highly-Excited Long-Range Interactions by Optical-Optical Double Resonance Photoassociative Spectroscopy of Ultracold ^{39}K Atoms", **DAMOP'97**, April 18-21, 1997, Washington DC.
9. H. Wang, P. L. Gould and W. C. Stwalley, "Direct Observation of Fine Structure Exchange Predissociation of the 0_u^+ State of $^{39}\text{K}_2$ by Photoassociative Spectroscopy", **DAMOP'97**, April 18-21, 1997, Washington DC.
8. H. Wang, X. T. Wang, P. L. Gould and W. C. Stwalley, "Two-Color Optical-Optical Double Resonance Photoassociative Spectroscopy of Ultracold ^{39}K Atoms", Post-deadline paper, **ILS-XII**, Oct. 20 -24, 1996, Rochester, New York.
7. H. Wang, J. Li, C. J. Williams, P. L. Gould and W. C. Stwalley, "Photoassociative Spectroscopy of $^{39}\text{K}_2$ ", **DAMOP'96**, May 15-18, 1996, Ann Arbor, MI.
6. H. Wang, J. Li, E. Fort, P. L. Gould and W. C. Stwalley, "Photoassociative Spectroscopy of Ultracold Potassium Atoms", **OSA Annual Meeting'95**, Sep. 9 - 15, 1995, Portland, Oregon.
5. H. Wang, P. L. Gould and W. C. Stwalley, "Photoassociative Spectroscopy of Ultracold Potassium Atoms in a "Dark Spot" Cell MOT", **DAMOP'95**, May 16 - 19, Toronto, Canada.

4. H. Wang, C. B. Winstead, T. C. Devore and J. L. Gole, "Chemiluminescence and Laser Induced Fluorescence Study of the First $\Omega=1$ State of AgF", **ILS-VIII**, Sep. 1992, Albuquerque, New Mexico.
3. H. Wang, J. X. Wang, T. J. Whang, A. M. Lyyra, P. D. Kleiber, L. Li, and W. C. Stwalley, "CW All-Optical Triple Resonance Spectroscopy and State-Selected Photodissociation of Na₂ and K₂", Post-deadline paper, **QELS'91**, May, 1991, Baltimore, Maryland.
2. H. Wang, T. J. Whang, A. M. Lyyra, L. Li and W. C. Stwalley, "CW OODR Study of the $4^1\Sigma_g^+$ State of Na₂", **ILS-VI**, Sep. 1990, Minneapolis, Minnesota.
1. H. Wang, L. Li, A. M. Lyyra and W. C. Stwalley, " CW Optical - Optical Double - Resonance Excitations of ³⁹K₂ Rydberg States", **ILS-V**, Aug. 1989, Stanford, California.