Appendix I

List of Publications

Publications Based on Experiments Performed at SRRC Beamlines

03A1 High Flux

1. B.-M. Cheng, M. Bahou, W.-C. Chen, C.-h. Yu, Y.-P. Lee, and L. C. Lee, "*Experimental and Theoretical Studies on VUV Absorption Cross Sections and Photodissociation of CH_3OH, CH_3OD, CD_3OH, and CD_3OD*", J. Chem. Phys. (in press).

2. C. Y. R. Wu, D. L. Judge, B.-M. Cheng, W.-H. Shih, T.-S. Yih, and W. H. Ip, "*Extreme Ultraviolet Photon-induced Chemical Reactions in the C_2H_2-H_2O Mixed Ices at 10 K*", Icarus (in press).

04B1 SEYA

3. M. Bahou, C.-Y. Chung, Y.-P. Lee, B.-M. Cheng, Y. L. Yung, and L.-C. Lee, "*Absorption Cross Sections of HCl and DCl in 135-232 nm: Implications for Photodissociation on Venus*", Astrophys. J. **559**, L179 (2001).

4. B.-M. Cheng, M. Bahou, Y.-P. Lee, and L. C. Lee, "*Absorption Cross Sections and Solar Photodissociation Rates of Deuterated Isotopomers of Methanol*", J. Geophy. Res. (in press).

5. B.-M. Cheng, C.-P. Liu, W.-J. Lo, Y.-P. Lee, "*Photodissocication Thresholds of OH Produced from CH_3OH in Solid Neon and Argon*", Nucl. Instr. Meth. Phys. Res. **A 467**, 1461 (2001)

6. S.-Y. Chiang, Y.-C. Lee, and Y. P. Lee, "*Formation of CH_3CFCl^+ from Photoionization of CH_3CFCl_2: an Application of Threshold Photoelectron Photoion Coincidence (TPEPICO) Technique*", J. Phys. Chem. **A 105**, 1226 (2001).

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8. H.-S. Fung, H.-H. Wu, T.-S. Yih, T.-K. Fang, and T.-N. Chang, "*Photoabsorption of Mg Above the 3p Threshold*", Phys. Rev. **A 64**, 052716 (2001).

9. C.-T. Kuo, S.-C. Li, S.-Y. Wang, and J.-B. Nee, "*Photoabsorption Cross Sections of CO_2 in 104-170 nm*", Chin. J. Phys. (submitted).

10. C.-T. Kuo, C.-Y. Tseng, S.-C. Li, and J.-B. Nee, "*Fluorescence and Quenching Studies for the $D^2\Sigma^+(\upsilon'=0)$ State of NO in 170-230 nm Region*", Chem. Phys. (submitted).

11. A. Y. T. Lee, Y. L. Yung, B.-M. Cheng, M. Bahou, C.-Y. Chung, and Y.-P. Lee, "*Enhancement of Deuterated Ethane on Jupiter*", Astrophys. J. **551**, L93 (2001).

12. P.-C. Lee and J.-B. Nee, "*Detection of $O(^1D)$ Produced in the Photodissociation of O_2. II. Identification of the $^3\Sigma_u^-$ and $^3\Pi_u$ Rydberg States in 105-113 nm*", J. Chem. Phys. **114**, 792 (2001).

13. J.-B. Nee, C.-T. Kuo, and H.-G. Tseng, "*Potential Energy Curves of Xe_2 Derived from the Pressure-dependent Fluorescence Excitation Spectra of the 1st and 2nd Continuum*", Chem. Phys. Lett. **318**, 402 (2000).

05B1 EPU (Spin-polarized)

14. S.-C. Chung, J. Chen, L.-R. Huang, R. T. Wu, C.-C. Chen, N.-F. Cheng, J. M. Chuang, P.-C. Tseng, D.-J. Huang, C. F. Chang, S.-Y. Perng, C. T. Chen, and K.-L. Tsang, "*Performance of an Elliptically Polarized Undulator Beamline*", Nucl. Instr. and Meth. **A 467**, 445 (2001).

15. D.-J. Huang, L. H. Tjeng, J. Chen, C.-F. Chang, W.-P. Wu, S.-C. Chung, G.-Y. Guo, H.-J. Lin, S.-G. Shyu, C.-C. Wu, and C. T. Chen, "*Anomalous Spin Polarization and Dualistic Electronic Nature of CrO_2*", Phys. Rev. Lett. (submitted).

16. D. J. Huang, L. H. Tjeng, J. Chen, C. F. Chang, W. P. Wu, A. D. Rata, T. Hibma, S. C. Chung, S.-G. Shyu, C.-C. Wu, and C. T. Chen, "*Spin-resolved Photoemission Studies of Epitaxial $Fe_3O_4(100)$ Thin Films*", Surf. Rev. Lett. **9**, 1007 (2002).

08A1 LSGM

17. T.-W. Pi, C.-P. Ouyang, J.-F. Wen, L.-C. Tien, J. Hwang, C.-P. Cheng, and G. K. Wertheim, "*Early Nucleation on the Si(001)-2x1 Surface*", Surf. Sci. (in press).

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09A1 U5 (SPEM)

21. T. J. Chuang, Y. L. Chan, P. Chuang, R. Klauser, C.-H. Ko, and D.-H. Wei, "*Surface Chemistry: From Vibrational Spectroscopy to Photoemission Spectromicroscopy*", Appl. Surf. Sci. **169**, 1 (2001).

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23. R. Klauser, I.-H. Hong, T.-H. Lee, G.-C. Yin, D.-H. Wei, K.-L. Tsang, T. J. Chuang, S.-C. Wang, S. Gwo, M. Zharnikov, and J.-D. Liao, "*Zone-plate-based Scanning Photoemission Microscopy at SRRC: Performance and Applications*", Surf. Rev. Lett. **9**, 213 (2002).

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17A1 Wiggler-A

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38. C.-F. Cheng and H.-H. Cheng, "*Synthesis and Morphology of Mesoporous Sieve SBA-15 at Low Acid Concentration*" (submitted).

39. C.-F. Cheng and S.-P. Chiu, "*Synthesis and Morphology of Mesoporous Molecular Sieves Aluminosilicate SBA-15*" (submitted).

40. C.-F. Cheng, S.-P. Chiu, H.-H. Cheng, H.-S. Sheu, and H.-Y. Lee, "*Direct Synthesis and Characterization of H^+-form Aluminosilicate Mesoporous Sieves SBA-15*" (submitted).

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