BIBLIOGRAPHY:


9. A. J. Dahm and H. W. Jiang, CONFERENCE ARTICLE (INVITED)
"Two-Dimensional Electron Arrays on a Helium Film"

10. H. W. Jiang, H. L. Stormer, D. C. Tsui, RESEARCH ARTICLE
L. N. Pfeiffer and K. W. West,
"Magneto-Transport Studies of the Insulating Phase around *=1/5 Landau-Level Filling"

11. H. W. Jiang, H. L. Stormer, D. C. Tsui, CONFERENCE ARTICLE (INVITED)
L. N. Pfeiffer and K. W. West,
"Transport Measurements on the Electronic Phases Around *=1/5 Landau Level Filling"
The Proceedings of the 9th International Conference on Electronic Properties of Two-Dimensional Systems

12. H. W. Jiang, C. E. Johnson and K. L. Wang, RESEARCH ARTICLE
"Giant Negative Magneto-Resistance of a Degenerate Two-Dimensional Electron Gas in Variable Range Hopping Regime"

13. H. W. Jiang, L. W. Engel, D. C. Tsui, RESEARCH ARTICLE
H. L. Stormer, L. N. Pfeiffer and K. W. West,
"Transport-Properties of a Two-Dimensional Electron System at Even-Denominators Fillings of the Lowest Landau Level"

14. C. E. Johnson, H. W. Jiang, K. Holzer, RESEARCH ARTICLE
R. B. Kaner, F. Diederch and R. L. Whetten
"Upper Critical Field - Temperature Phase Diagram of Alkali- Intercalated C60 Superconductors"

15. A. J. Dahm and H. W. Jiang CONFERENCE ARTICLE
"Properties of a Pinned Electron Solid on a Liquid Helium Film"

16. C. E. Johnson and H. W. Jiang, RESEARCH ARTICLE
"Observation of a Nondivergent Hall Coefficient for a Localized, Two-Dimensional Electron Gas"

17. H. W. Jiang, C. E. Johnson, K. L. Wang RESEARCH ARTICLE
and S. T. Hannahs,
"Observation of Magnetic-Field-Induced Delocalization: Transition from Anderson Insulator to Quantum Hall Conductor"

"Giant Negative-Magnetoresistance in Variable-Range Hopping"

"Magnetic-field-induced Transition: from an Anderson Insulator to a Quantum Hall Conductor"

"Magnetic-field-induced Transition: from an Anderson Insulator to a Quantum Hall Conductor"

21. X. Hu, Y. Carmi, A. J. Dahm, and H. W. Jiang,
"Screening of the Coulomb gap in Two-Dimensional Variable-Range-Hopping"

22. Y. M. Kim, G. Mihaly, H. W. Jiang, and G. Gruner,
"The Low Temperature Spin Density Wave Transport - Effects of Magnetic Field in (TMTSF)(2)PF6 and Disorder in (TMTSF)(2)XS."

23. I. Glozman, C. E. Johnson, and H. W. Jiang,
"Fate of the Delocalized States in a Vanishing Magnetic Field"

24. L. Wong, H. W. Jiang, N. Trivedi and E. Palm,
"Disorder-Tuned Transition between Quantum Hall liquid and Hall-Insulator"

"Screening of the Coulomb gap"

26. I. Glozman, C. E. Johnson, and H. W. Jiang,
“Glozman, Johnson, and Jiang Reply”


"Observation of a Discontinuous Red-Shift in the Emission Spectrum of a Two-Dimensional Electron Gas"  

"Topological Phase Diagram of a Two-Subband Electron System"  

"Strong resonant intersubband magnetopolaron effect in heavily modulation-doped GaAs/AlGaAs single quantum wells at high magnetic fields"  
Physica E Low-Dimensional Systems & Nanostructures, 6, 195 (2000).

40. S. C. Dultz, and H. W. Jiang  
"Thermodynamic Signature of a Two-Dimensional Metal-Insulator Transition"  

41. R. Vrijen, E. Yablonovitch, K. Wang, H. W. Jiang, A. Balandin, V. Roychowdhury, T. Mor, and D. DiVincenzo  
"Electron Spin Resonance Transistors for Quantum Computing in Silicon-Germanium Hererostructure"  

42. H. W. Jiang, and E. Yablonovitch  
"Gate-Controlled Electron Spin Resonance in GaAs/AlGaAs Heterostructures",  

"Strong Tree-Level Resonant Magnetopolaron Effect due to the Intersubband Coupling in Heavily Modulation-Doped GaAs/AlGaAs Single Quantum Wells at High Magnetic Fields",  

44. C. Hillman, and H. W. Jiang  
"Magnetic Field Pinning of a Dynamic Electron-Spin-Resonance Line in a GaAs/AlGaAs Heterostructure",  

45. Y. Kim, and H. W. Jiang  
"Positively Charged Magnetoexciton Transition in a p-doped GaAs/AlGaAs Single Heterojunction".


56. X. C. Zhang, D. R. Faulhaber, and H. W. Jiang, RESEARCH ARTICLE
"Multiple Phases with the Same Quantized Hall Conductance in a Two-Subband System",

57. D. R. Faulhaber and H. W. Jiang, RESEARCH ARTICLE
"Nonequilibrium Magnetization of a Two-Dimensional Electron Gas in a Static Magnetic Field"

58. X. C. Zhang, I. Martin, and H. W. Jiang, RESEARCH ARTICLE
"Landau level anticrossing manifestations in the phase-diagram topology of a two-subband system"

59. G. D. Scott, Kelly S. Chichak, Andrea J. Peters, J. Fraser Stoddart, and H. W. Jiang,
"Mechanism of enhanced rectification in unimolecular Borromean ring devices"

60. G. D. Scott, M. Xiao, E. Croke, E. Yablonovitch, and H. W. Jiang, RESEARCH ARTICLE
"Sputtered gold as an effective Schottky gate for strained Si/SiGe nanostructures",

61. X. C. Zhang, G. D. Scott, and H. W. Jiang, RESEARCH ARTICLE
"NMR Probing of Spin Excitations in the Ring-Like Structure of a Two-Subband System"

REVIEW ARTICLE
"Single Electron Spin Measurements in Si-Based Semiconductor NanoStructures",
A chapter in the book entitled "Electron Spin Resonance and Related Phenomena in Low Dimensional Structures",

RESEARCH ARTICLE
"Experimental Studies of Scaling Behavior of a Quantum Hall System with a Tunable Landau Level Mixing"

RESEARCH ARTICLE
"Observation of an in-plane magnetic-field-driven phase transition in a quantum Hall system with SU(4) symmetry"
65. X.C. Zhang, G. Mazzeo, A. Brataas, M. Xiao, and H. W. Jiang, RESEARCH ARTICLE
"Tunable electron counting statistics in a quantum dot at thermal equilibrium"

66. M.G. House, H.W. Jiang, and X.C. Zhang, RESEARCH ARTICLE
"Analysis of electron tunneling events with the hidden Markov model"

67. Xiao-Jie Hao, Tao Tu, Yong-Jie Zhao, Guang-Can Guo, H.W.Jiang, Guo-Ping Guo, RESEARCH ARTICLE
"Phase diagram of a quantum Hall pseudospin ferromagnet in a two-subband electron system",

"Probing Quantum Hall Pseudospin Ferromagnet by Resistively Detected NMR"

69. M. Xiao, M. G. House, and H. W. Jiang, RESEARCH ARTICLE
"Measurement of the Spin Relaxation Time of Single Electrons in a Silicon MOS-Based Quantum Dot"

70. G. Mazzeo, E. Yablonovitch, H. W. Jiang, Y. Bai, and E. A. Fitzgerald, RESEARCH ARTICLE
"Conduction band discontinuity and electron confinement at the SixGe1−x/Ge interface"

71. M. Xiao, M. G. House, and H. W. Jiang, RESEARCH ARTICLE
"Parallel Spin Filling and Energy Spectroscopy in Few-Electron Si MOS-Based Quantum Dots"

"Evolution of Spin-Wave Modes in Magnetic Tunnel Junction Nanopillars"

"A Graphene Quantum Dot with a Single Electron Transistor as Integrated Charge Sensor"

"Effect of resistance-area product on spin-transfer switching in MgO-based magnetic tunnel junction memory cells"

"Deep Sub-nanosecond Spin Torque Switching in Magnetic Tunneling Junctions with Combined In-Plane and Perpendicular Polarizers",

"Switching Current Reduction Using Perpendicular Anisotropy in CoFeB-MgO Magnetic Tunnel Junctions"

"Thermal Stability Characterization of Magnetic Tunneling Junctions Using Hard-Axis Magnetoresistance Measurements"

“Low Writing Energy and Sub Nano-Second Spin Torque Transfer Switching of In-plane Magnetic Tunnel Junction for STT-RAM”

"Enhancement of microwave emission in magnetic tunnel junction oscillators through in-plane field orientation"
81. M. House, H. Pan, M. Xiao, and H. W. Jiang, RESEARCH ARTICLE
"Non-equilibrium charge stability diagrams of a silicon double quantum dot"

"Sub-200 ps spin transfer torque switching in in-plane magnetic tunnel junctions with interface perpendicular anisotropy"

83. HaiOu Li, Ming Xiao, Gang Cao, Cheng Zhou, RuNan Shang, Tao Tu, GuangCan Guo, HongWen Jiang, and GuoPing Guo RESEARCH ARTICLE
"Back-action-induced non-equilibrium effect in electron charge counting statistics"

84. Hui Zhao, Pedram Khalili Amiri, Yisong Zhang, Andrew Lyle, Jordan A. Katine, Juergen Langer, Hongwen Jiang, Kang L. Wang, Ilya N. Krivorotov, and Jian-Ping Wang RESEARCH ARTICLE
“Spin-Transfer Torque Switching Above Room Temperature”

85. Zeng, Zhongming; Khalili Amiri, Pedram; Krivorotov, Ilya; Zhao, Hui; Finocchio, Giovanni; Wang, Jian-Ping; Katine, Jordan; Huai, Yiming; Langer, juergen; Galatsis, Kosmas; Wang, Kang; Jiang, HongWen RESEARCH ARTICLE
"High-power coherent microwave emission from magnetic tunnel junction nano-oscillators with perpendicular anisotropy"

86. H. Pan, M. G. House, X. Hao, and H. W. Jiang RESEARCH ARTICLE
"Fabrication and characterization of a silicon metal-oxide-semiconductor based triple quantum dot"

"Nanoscale magnetic tunnel junction sensors with perpendicular anisotropy sensing layer"

"Spin-Torque Driven Switching Probability Density Function Asymmetry"


89. Gang Cao, Hai-Ou Li, Tao Tu, Li Wang, Cheng Zhou, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang and Guo-Ping Guo
"Ultrafast Universal Quantum Control of a Quantum Dot Charge Qubit Using Landau-Zener-Stückelberg Interference"

90. Zhongming Zeng, Giovanni Finocchio and HongWen Jiang,
INVITED REVIEW ARTICLE
"Spin Transfer Nano-Oscillators"

91. Gang Cao, Ming Xiao, Hai OU Li, Cheng Zhou, Ru Nan, Shang, Tao Tu, Hong Wen Jiang, Guo Ping Guo
"Back-action driven electron spin excitation in a single quantum dot"

"Ultralow-Current-Density and Bias-Field-Free Spin-Transfer Nano-Oscillator"

93. M. G. House, Ming Xiao, Guo Ping Guo, Hai Ou Li, Gan Cao, M. M. Rosenthal, and Hong Wen Jiang
"Detection and measurement of spin-dependent dynamics in random telegraph signals"

94. Ru Nan Shang, Hai Ou Li, Gang Cao, Ming Xiao, Tao Tu, Hong Wen Jiang and Guo Ping Guo
"Photon-Assisted-Tunneling in a Coupled Double Quantum Dot under High Microwave Excitation Powers"

95. Da Wei, Hai Ou Li, Gang Cao, Gang Luo, Zhi Xiong Zheng, Tao Tu, Ming Xiao, Guang Can Guo, H. W. Jiang, and Guo Ping Guo
"Tuning inter-dot tunnel coupling of an etched graphene double quantum dot by adjacent metal gates"

96. Miao Lei Zhang, Guang Wei Deng, Shu Xiao Li, Hai Ou Li, Gang Cao, Tao Tu, Ming Xiao, Guang Can Guo, Hong Wen Jiang, Irfan Siddiqi, and Guo Ping Guo, RESEARCH ARTICLE
"Symmetric reflection line resonator and its quality factor modulation by a two-dimensional electron gas"

97. Li Wang, Cheng Zhou, Tao Tu, Hong-Wen Jiang, Guo-Ping Guo, and Guang-Can Guo,
"Quantum simulation of the Kibble-Zurek mechanism using a semiconductor electron charge qubit"

98. Xiaojie Hao, Rusko Ruskov, Ming Xiao, Charles Tahan, and HongWen Jiang,
"Electron Spin Resonance and Spin-Valley Physics in a Silicon Double Quantum Dot"
Nature Communications 5, 3860 (2014).

99. Miao-Lei Zhang, Da Wei, Guang-Wei Deng, Shu-Xiao Li, Hai-Ou Li, Gang Cao, Tao Tu,
Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, and Guo-Ping Guo RESEARCH ARTICLE
"Measuring the complex admittance of a nearly isolated graphene quantum dot"

100. Hai-Ou Li, Gang Cao, Ming Xiao, Jie You, Da Wei, Tao Tu, Guang-Can Guo, Hong-Wen Jiang and Guo-Ping Guo
"Fabrication and characterization of an undoped GaAs/AlGaAs quantum dot device"

101. XiangXiang Song, Hai-Ou Li, Jie You, TianYi Han, Gang Cao, Tao Tu, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, and GuoPing Guo
"Suspending Effect on Low-Frequency Charge Noise in Graphene Quantum Dot"

102. Hai-Ou Li, Gang Cao, Guo-Dong Yu, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, and Guo-Ping Guo
"Conditional Rotation of Two Strongly Coupled Semiconductor Charge Qubits",

103. Runan Shang, Hai-Ou Li, Gang Cao, Guodong Yu,Ming Xiao,Tao Tu, Guang-Can Guo,
Hongwen Jiang, A. M. Chang, and Guo-Ping Guo
"Observation of the Kondo effect in a quadruple quantum dot"

104. Guang-Wei Deng, Da Wei, J.R. Johansson, Miao-Lei Zhang,, Shu-Xiao Li, Hai-Ou Li, Gang Cao, Ming Xiao, Tao Tu, Guang-Can Guo, Hong-Wen Jiang, Franco Nori, and Guo-Ping Guo,
"Charge number dependence of the dephasing rates of a graphene double quantum dot in a circuit QED architecture"
105. Deng, Guang-Wei; Wei, Da; Li, Shu-Xiao; Johansson, J. R.; Kong, Wei-Cheng; Li, Hai-Ou; Cao, Gang; Xiao, Ming; Guo, Guang-Can; Nori, Franco; Jiang, Hong-Wen; Guo, Guo-Ping
RESEARCH ARTICLE
"Coupling Two Distant Double Quantum Dots with a Microwave Resonator"

106. Gang Cao, Hai-Ou Li, Guo-Dong Yu, Bao-Chuan Wang, Bao-Bao Chen, Xiang-Xiang Song, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, Xuedong Hu, and Guo-Ping Guo
RESEARCH ARTICLE
"Tunable Hybrid Qubit in a GaAs Double Quantum Dot"

RESEARCH ARTICLE
"Giant Spin-Torque Diode Sensitivity in the Absence of Bias Magnetic Field"
Nature Communications, 7, 11259 (2016).

108. Yu, Guo-Dong; Li, Hai-Ou; Cao, Gang; Xiao, Ming; Jiang, HongWen; Guo, GuoPing
RESEARCH ARTICLE
"Tunable Capacitive Coupling between Two Semiconductor Charge Qubits"
Nanotechnology 27, 324003 (2016).

109. Blake M. Freeman, Joshua S. Schoenfield, and HongWen Jiang
RESEARCH ARTICLE
"Comparison of Low Frequency Charge Noise in Identically Patterned Si/SiO2 and Si/SiGe Quantum Dots"

110. Bao-Bao Chen, Bao-Chuan Wang, Gang Cao, Hai-Ou Li, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, Xuedong Hu, and Guo-Ping Guo
RESEARCH ARTICLE
“Spin blockade and coherent dynamics of high-spin states in a three-electron double quantum dot”

111. Bao-Chuan Wang, Gang Cao, Hai-Ou Li, Ming Xiao, Guang-Can Guo, Xuedong Hu, Hong-Wen Jiang, and Guo-Ping Guo,
RESEARCH ARTICLE
“A tunable hybrid qubit in a triple quantum dot”

112. Joshua S. Schoenfield, Blake Freeman, and H. W. Jiang,
RESEARCH ARTICLE
"Coherent Manipulation of Valley States at Multiple charge configurations of a silicon quantum dot device".
Nature Communications, 10.1038, 8, 64 (2017).

113. Hai-Ou Li, Gang Cao, Guo-Dong Yu, Ming Xiao, Guang-Can Guo, Hong-Wen Jiang, and Guo-Ping Guo
RESEARCH ARTICLE
“Controlled Quantum Operations of a Semiconductor Three-Qubit System”

114. Bin Fang, Mario Carpentieri, Steven Louis, Vasyl Tiberkevich, Andrei Slavin, Ilya N. Krivorotov, Riccardo Tomasello, Anna Giordano, Hongwen Jiang, Jialin Cai,1 Yaming Fan, Zehong Zhang, Baoshun Zhang, Jordan A. Katine, Kang L. Wang, Pedram Khalili Amiri, Giovanni Finocchio, and Zhongming Zeng,
RESEARCH ARTICLE
“Experimental Demonstration of Spintronic Broadband Microwave Detectors and Their Capability for Powering Nanodevices”

115. N. E. Penthorn, X. Hao, Z. Wang, Y. Huai, and H. W. Jiang,
RESEARCH ARTICLE
“Experimental Observation of Single Skyrmion Signatures in a Magnetic Tunnel Junction”