A.P. Micolich – Publication List

Publications submitted or currently in preparation

1. "Anisotropic Kondo effect in a spin-3/2 hole quantum wire"
   O. Klochan, A.P. Micolich, A.R. Hamilton, K. Trunov, D. Reuter and A.D. Wieck
   Submitted to *Physical Review Letters* (arXiv:1103.0320)

2. "Seeing Shapes in Seemingly Random Spatial Patterns: Fractal Analysis of Rorschach Inkblots"
   R.P. Taylor, T.P. Martin, **A.P. Micolich**, D. Jonas, C. Boydston, B.C. Scannell, M.S. Fairbanks and B. Spehar
   Submitted to *Psychology of Aesthetics, Creativity, and the Arts*.

Refereed Journal Publications

1. "Realizing lateral wrap-gated nanowire FETs: Controlling gate length with chemistry rather than lithography"
   K. Storm, G. Nylund, L. Samuelson, **A.P. Micolich**
   Published: *Nano Letters* DOI: 10.1021/nl104403g

   This paper was highlighted in News Articles in Materials Today, PhysOrg, and ZeitNews

2. "A tunable metal-organic resistance thermometer"
   A.P. Stephenson, **A.P. Micolich**, K.H. Lee, P. Meredith and B.J. Powell
   Published: *ChemPhysChem* **12**, 116 (2011).

   This paper was highlighted in News Articles in ChemistryViews, Materials Today, TCE today, PhysOrg, Wired UK and Gizmodo

3. "Piezoelectric rotator for studying quantum effects in semiconductor nanostructures at high magnetic fields and low temperatures"
   L.A. Yeoh, A. Srinivasan, T.P. Martin, O. Klochan, **A.P. Micolich** and A.R. Hamilton
   Published: *Reviews of Scientific Instruments* **81**, 113905 (2010).

4. "Origin of the hysteresis in bilayer two-dimensional systems in the quantum Hall regime"
   L.H. Ho, L.J. Taskinen, **A.P. Micolich**, A.R. Hamilton, P. Atkinson and D.A. Ritchie
   Published: *Physical Review B* **82**, 153305 (2010).

5. "Electrometry using the quantum Hall effect in a bilayer 2D electron system"
   L.H. Ho, L.J. Taskinen, **A.P. Micolich**, A.R. Hamilton, P. Atkinson and D.A. Ritchie
   Published: *Applied Physics Letters* **96**, 212102 (2010).

6. "Competition between superconductivity and weak localization in metal-mixed ion-implanted polymers"
   A.P. Stephenson, **A.P. Micolich**, U. Divakar, P. Meredith and B.J. Powell
   Published: *Physical Review B* **81**, 144520 (2010).

7. "AlGaAs/GaAs single electron transistors fabricated without modulation doping"
   A.M. See, O. Klochan, A.R. Hamilton, **A.P. Micolich**, M. Aagesen and P.E. Lindelof
   Published: *Applied Physics Letters* **96**, 112104 (2010).

8. "Fabrication and characterization of an induced GaAs single hole transistor"
O. Klochan, J.C.H. Chen, **A.P. Micolich**, A.R. Hamilton, K. Muraki and Y. Hirayama
Published: *Applied Physics Letters* **96**, 092103 (2010).

9. "Observation of orientation- and *k*-dependent Zeeman spin-splitting in hole quantum wires on (100)-oriented AlGaAs/GaAs heterostructures"
J.C.H. Chen, O. Klochan, **A.P. Micolich**, A.R. Hamilton, T.P. Martin, L.H. Ho, U. Zülicke, D. Reuter and A.D. Wieck
Published: *New Journal of Physics* **12**, 033043 (2010).

10. "Field orientation dependence of the Zeeman spin-splitting in (In,Ga)As quantum point contacts"
T.P. Martin, A. Szorkovszky, **A.P. Micolich**, A.R. Hamilton, C.A. Marlow, R.P. Taylor, H. Linke and H.Q. Xu
Published: *Physical Review B – Rapid Communications* **81**, 041303 (2010).

11. "Ground-plane screening of Coulomb interactions in 2D systems – How effectively can one 2D system screen interactions in another?"
L.H. Ho, **A.P. Micolich**, A.R. Hamilton and O.P. Sushkov
Published: *Physical Review B* **80**, 155412 (2009).

12. "Emerging Challenges in Wind-energy Forecasting for Australia"
M.J. Kay, N.J. Cutler, **A.P. Micolich**, I. MacGill and H. Outhred
Published: *The Australian Meteorological and Oceanographic Journal* **58**, 99 (2009).

13. "Role of background impurities in the single-particle relaxation lifetime of a two-dimensional electron gas"
S.J. MacLeod, K. Chan, T.P. Martin, A.R. Hamilton, A. See, **A.P. Micolich**, M. Aagesen and P.E. Lindelof
Published: *Physical Review B* **80**, 035310 (2009).

14. "Preparation of Metal Mixed Plastic Superconductors: Electrical Properties of Tin-Antimony Thin Films on Plastic Substrates"
A.P. Stephenson, U. Divakar, **A.P. Micolich**, B.J. Powell and P. Meredith
Published: *Journal of Applied Physics* **105**, 093909 (2009).

15. "Interplay between one-dimensional confinement and crystallographic anisotropy in ballistic hole quantum wires"
O. Klochan, **A.P. Micolich**, L.H. Ho, A.R. Hamilton, K. Muraki and Y. Hirayama
Published: *New Journal of Physics* **11**, 043018 (2009).

16. "Radio-frequency reflectometry on macroscopic 2D samples"
L.J. Taskinen, R.P. Starrett, T.P. Martin, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, D.A. Ritchie and M. Pepper.
Published: *Reviews of Scientific Instruments* **79**, 123901 (2008).

17. "The latent potential of *YouTube* – Will it become the 21st Century Lecturer's Film Archive?"
A.P. Micolich
Published: *CAL-laborate International* October 2008 Issue, p. 12-19 (ISSN 1836-0858).

18. "Enhanced Zeeman splitting in $Ga_{0.25}In_{0.75}As$ quantum point contacts"
T.P. Martin, A. Szorkovszky, **A.P. Micolich**, A.R. Hamilton, C.A. Marlow, H. Linke, R.P. Taylor and L. Samuelson
Published: *Applied Physics Letters* **93**, 012105 (2008).

19. "Effect of screening long-range Coulomb interactions on the metallic behavior in two-dimensional hole systems"
L.H. Ho, W.R. Clarke, **A.P. Micolich**, R. Danneau, O. Klochan, M.Y. Simmons, A.R. Hamilton, M. Pepper and D.A. Ritchie
Published: *Physical Review B – Rapid Communications* **77**, 201402 (2008).

20. "0.7 Structure and zero bias anomaly in ballistic hole quantum wires"

R. Danneau, O. Klochan, W. R. Clarke, L. H. Ho, **A. P. Micolich**, M. Y. Simmons, A. R. Hamilton, M. Pepper and D. A. Ritchie
Published: *Physical Review Letters* **100**, 016403 (2008).

21. "Ohmic Conduction of sub-10nm P-doped Si nanowires at cryogenic temperatures"
F.J. Ruess, **A.P. Micolich**, W. Pok, K.E.J. Goh, A.R. Hamilton and M.Y. Simmons
Published: *Applied Physics Letters* **92**, 052101 (2008).

22. "Quantum transport in one-dimensional GaAs hole systems"
A.R. Hamilton, O. Klochan, R. Danneau, W.R. Clarke, L.H. Ho, **A.P. Micolich**, M.Y. Simmons, M. Pepper, D.A. Ritchie, K. Muraki and Y. Hirayama
Published: *International Journal of Nanotechnology* **5** (2), 318-330 (2008).

23. "The 0.7 anomaly in one-dimensional hole quantum wires"
A.R. Hamilton, R. Danneau, O. Klochan, W.R. Clarke, **A.P. Micolich**, L.H. Ho, M.Y. Simmons, D.A. Ritchie, M. Pepper, K. Muraki and Y. Hirayama
Published: *Journal of Physics: Condensed Matter* **20**, 164205 (2008) – Invited review in special edition on the 0.7-feature in 1D systems.

    This paper was highlighted as one of the top papers in the *Journal of Physics: Condensed Matter* in 2008 (For details, see http://ej.iop.org/pdf-nfs/jpcm/toppapers.pdf)

24. "Impact of long- and short-range disorder on the metallic behaviour of two-dimensional systems"
W.R. Clarke, C.E. Yasin, A.R. Hamilton, **A.P. Micolich**, M.Y. Simmons, K. Muraki, Y. Hirayama, M. Pepper and D.A. Ritchie
Published: *Nature Physics* **4**, 55-59 (2008).

25. "An Improved Process for Fabricating High-Mobility Organic Molecular Crystal Field-Effect Transistors"
A.P. Micolich, L.L. Bell, A.R. Hamilton
Published: *Journal of Applied Physics* **102**, 084511 (2007).

26. "Authenticating Pollock Paintings with Fractal Geometry"
R.P. Taylor, R. Guzman, T.P. Martin, G.D.R. Hall, **A.P. Micolich**, D. Jonas, B.C. Scannell, M.S. Fairbanks and C.A Marlow
Published: *Pattern Recognition Letters* **28**, 695 (2007).

    This paper was the subject of a News Feature in the 9th Feb issue of *Nature* **439**, 648 (2006), and was also reported in the *New York Times* by R. Kennedy on 9th Feb. 2006.

27. "Revisiting Pollock's Drip Paintings - Reply"
R.P. Taylor, **A.P. Micolich** and D. Jonas
Published: *Nature* **444**, E10-11 (2006).

28. "Superconductivity in Metal-mixed Ion-implanted Polymer Films"
A.P. Micolich, E. Tavenner, B.J. Powell, A.R. Hamilton, M.T. Curry, R.E. Giedd and P. Meredith
Published: *Applied Physics Letters* **87**, 155203 (2006).

29. "Ballistic Transport in Induced One-Dimensional Hole Systems"
O. Klochan, R. Danneau, W.R. Clarke, **A.P. Micolich**, L.-H. Ho, A.R. Hamilton, K. Muraki and Y. Hirayama
Published: *Applied Physics Letters* **89**, 092105 (2006).

    This paper was discussed in a News & Views article by K. Ensslin in *Nature Physics* **2**, 587 (2006).

30. "Zeeman spin-splitting anisotropy in ballistic hole quantum wires"
R. Danneau, O. Klochan, W.R. Clarke, L.-H. Ho, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, M. Pepper, D.A. Ritchie and U. Zülicke
Published: *Physical Review Letters* **97**, 026403 (2006).

31. "Conductance quantization and the 0.7 x $2e^2/h$ conductance anomaly in one-dimensional hole systems"
R. Danneau, W.R. Clarke, O. Klochan, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, M. Pepper and D.A. Ritchie
Published: *Applied Physics Letters* **88**, 012107 (2006). (Also available at cond-mat/0507592)

    This paper was discussed in a News & Views article by K. Ensslin in *Nature Physics* **2**, 587 (2006).

32. "Fabrication of induced two-dimensional hole systems on (311)A GaAs"
W.R. Clarke, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, K. Muraki and Y. Hirayama
Published: *Journal of Applied Physics* **99**, 023707 (2006).

33. "Interaction correction to the longitudinal conductivity and Hall resistivity in high quality two-dimensional GaAs electron and hole systems"
C.E. Yasin, T.L. Sobey, **A.P. Micolich**, W.R. Clarke, A.R. Hamilton, M.Y. Simmons, L.N. Pfeiffer, K.W. West, E.H. Linfield, M. Pepper and D.A. Ritchie
Published *Physical Review B (Rapid Communications)* **72**, 241310 (2005). (Also available at cond-mat/0403411).

34. "Evolution of the bilayer $\nu = 1$ quantum Hall state under charge imbalance"
W.R. Clarke, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, C.B. Hanna, J.R. Rodriguez, M. Pepper and D.A. Ritchie
Published: *Physical Review B (Rapid Communications)* **71**, 081304 (2005).

35. "Three key questions on fractal conductance fluctuations: Dynamics, quantization and coherence"
A.P. Micolich, R.P. Taylor, T.P. Martin, R. Newbury, T.M. Fromhold, A.G. Davies, H. Linke, W.R. Tribe, L.D. Macks, C.G. Smith, E.H. Linfield and D.A. Ritchie
Published: *Physical Review B* **70**, 085302 (2004).

36. "The Dependence of Fractal Conductance Fluctuations on Soft-wall Profile in a Double-2DEG Billiard"
A.P. Micolich, R.P. Taylor, A.G. Davies, T.M. Fromhold, H. Linke, L.D. Macks, R. Newbury, A. Ehlert, W.R. Tribe, E.H. Linfield and D.A. Ritchie
Published: *Applied Physics Letters* **80**, 4381 (2002).

37. "The Construction of Jackson Pollock's Fractal Drip Paintings"
R.P. Taylor, **A.P. Micolich** and D. Jonas
Published: *Leonardo* **35**, 203 (2002).

38. "A Compact Fourth-Order Finite Difference Method for Solving Differential Equations"
P.B. Wilkinson, T.M. Fromhold, C.R. Tench, R.P. Taylor and **A.P. Micolich**
Published: *Physical Review E* **64**, 047701 (2001).

39. "Effects of Geometrical Ray Chaos on the Electromagnetic Eigenmodes of a Gradient Index Optical Cavity"
P.B. Wilkinson, T.M. Fromhold, R.P. Taylor and **A.P. Micolich**
Published: *Physical Review E* **64**, 026203 (2001).

40. "The Evolution of Fractal Patterns during a Classical-Quantum Transition"
A.P. Micolich, R.P. Taylor, A.G. Davies, J.P. Bird, R. Newbury, T.M. Fromhold, A. Ehlert, H. Linke, L.D. Macks, W.R. Tribe, E.H. Linfield, D.A. Ritchie, J. Cooper, Y. Aoyagi and P.B. Wilkinson
Published: *Physical Review Letters* **87**, 036802 (2001).

41. "Electromagnetic Wave Chaos in Gradient Refractive Index Optical Cavities"
P.B. Wilkinson, T.M. Fromhold, R.P. Taylor and **A.P. Micolich**
Published: *Physical Review Letters* **86**, 5466 (2001).

42. "Semiconductor Billiards – A Controlled Environment to Study Fractals"
R.P. Taylor, **A.P. Micolich**, R. Newbury, T.M. Fromhold, A. Ehlert, A.G. Davies, L.D. Macks, C.R. Tench, J.P. Bird, H. Linke, W.R. Tribe, E.H. Linfield and D.A. Ritchie
Published: *Physica Scripta* **T90**, 41 (2001).

43. "Chaos in Quantum Ratchets"
H. Linke, T.E. Humphrey, R.P. Taylor, **A.P. Micolich** and R. Newbury
Published: *Physica Scripta* **T90**, 54 (2001).

44. "The Construction of Pollock's Fractal Drip Paintings"
R.P. Taylor, **A.P. Micolich** and D. Jonas
In Press: *The Visual Mind Part 4: Art and Mathematics*

45. "An Investigation of Weierstrass Self-Similarity in a Semiconductor Billiard"
A.P. Micolich, R.P. Taylor, R. Newbury, T.M. Fromhold and C.R. Tench
Published: *Europhysics Letters* **49**, 417 (2000).

46. "Using Science to Investigate Jackson Pollock's Drip Paintings"
R.P. Taylor, **A.P. Micolich** and D. Jonas
Published: *Journal of Consciousness Studies* **7**, 137 (2000).

47. "Comment on Fractal Conductance Fluctuations in a Soft-wall Stadium and a Sinai Billiard"
R.P. Taylor, **A.P. Micolich**, T.M. Fromhold and R. Newbury
Published: *Physical Review Letters* **83**, 1074 (1999).

48. "Fractal Analysis of Pollock's Drip Paintings"
R.P. Taylor, **A.P. Micolich** and D. Jonas
Published: *Nature* **399**, 422 (1999).

49. "Exact and Statistical Self-Similarity in Magneto-Conductance Fluctuations: A Unified Picture"
R.P. Taylor, **A.P. Micolich**, R. Newbury, J.P. Bird, T.M. Fromhold, J. Cooper, Y. Aoyagi and T. Sugano
Published: *Physical Review B* (Brief Reports) **58**, 11107 (1998).

50. "Environmental Coupling and Phase Breaking in Open Quantum Dots"
J.P. Bird, **A.P. Micolich**, H. Linke, D.K. Ferry, R. Akis, Y. Ochiai, Y. Aoyagi and T. Sugano
Published: *Journal of Physics: Condensed Matter* **10**, L55 (1998).

51. "Experimental and Theoretical Investigations of Electron Dynamics in a Semiconductor Sinai Billiard"
A.P. Micolich, R.P. Taylor, R. Newbury, C.P. Dettmann and T.M. Fromhold
Published: *Australian Journal of Physics* **51**, 547 (1998).

52. "Geometry-induced Fractal Behaviour in a Semiconductor Billiard"
A.P. Micolich, R.P. Taylor, R. Newbury, J.P. Bird, R. Wirtz, C.P. Dettmann, Y. Aoyagi and T. Sugano
Published: *Journal of Physics: Condensed Matter* **10**, 1339 (1998).

53. "Fractal Transistors"
R.P. Taylor, **A.P. Micolich**, R. Newbury, C.P. Dettmann and T.M. Fromhold
Published: *Semiconductor Science and Technology* **12**, 1459 (1997).

54. "Correlation Analysis of Self-Similarity in Semiconductor Billiards"
R.P. Taylor, **A.P. Micolich**, R. Newbury and T.M. Fromhold
Published: *Physical Review B* (Rapid Communications) **56**, R12733 (1997).

55. "Quantum Transport in Open Mesoscopic Cavities"
J.P. Bird, R. Akis, D.K. Ferry, D.P. Pivin Jr., K.M. Connolly, R.P. Taylor, R. Newbury, D.M. Olatona, **A.P. Micolich**, R. Wirtz, Y. Ochiai, Y. Okubo, K. Ishibashi, Y. Aoyagi and T. Sugano
Published: *Chaos, Solitons and Fractals* **8**, 1299 (1997).

Book Chapters

1. "A Review of Fractal Conductance Fluctuations in Ballistic Semiconductor Devices"
R.P. Taylor, R. Newbury, **A.P. Micolich**, T.M. Fromhold, H. Linke, A.G. Davies, J.P. Bird, T.P. Martin and C.A. Marlow
Invited chapter in the book *Electron Transport in Quantum Dots*, Ed. J.P. Bird
Published: Kluwer Academic/Plenum (2003). ISBN: 1-4020-7459-X

Refereed Conference Proceedings

1. "Ground-plane screening of Coulomb interactions by a nearby two-dimensional system"
   L.H. Ho, A.P. Micolich, A.R. Hamilton and O.P. Sushkov
   Proceedings of "18th International Conference on the Electronic Properties of Two-Dimensional Systems", Kobe, Japan, 19th – 24th July 2009.
   Published: *Physica E* **42**, 1228 (2010).

2. "Radio-frequency reflectometry – A fast and sensitive measurement method for two-dimensional systems"
   L.J. Taskinen, R.P. Starrett, T.P. Martin, J.C.H. Chen, A.P. Micolich, A.R. Hamilton, M.Y. Simmons, D.A. Ritchie and M. Pepper.
   Proceedings of "18th International Conference on the Electronic Properties of Two-Dimensional Systems", Kobe, Japan, 19th – 24th July 2009.
   Published: *Physica E* **42**, 1192 (2010).

3. "Ballistic induced hole quantum wires fabricated on a (100)-oriented AlGaAs/GaAs heterostructure"
   J.C.H. Chen, O. Klochan, A.P. Micolich, A.R. Hamilton, D. Reuter and A.D. Wieck
   Proceedings of "18th International Conference on the Electronic Properties of Two-Dimensional Systems", Kobe, Japan, 19th – 24th July 2009.
   Published: *Physica E* **42**, 1111 (2010).

4. "Crystallographic anisotropy of the Zeeman splitting in 1D hole quantum wires"
   O. Klochan, A.P. Micolich, L.H. Ho, A.R. Hamilton, K. Muraki and Y. Hirayama
   Proceedings of "18th International Conference on the Electronic Properties of Two-Dimensional Systems", Kobe, Japan, 19th – 24th July 2009.
   Published: *Physica E* **42**, 967 (2010).

5. "The Reduced Effective Interaction Parameter in Closely Spaced Two-dimensional Hole Systems"
   L.H. Ho, **A.P. Micolich**, W.R. Clarke, O. Klochan and A.R. Hamilton
   Proceedings of "29th International Conference on the Physics of Semiconductors", Rio de Janeiro, Brazil, 27th July – 1st August 2008.
   Published: *AIP Conference Proceedings* **1199**, 209 (2009).

6. "Screening long-range Coulomb interactions in 2D hole systems using a bilayer heterostructure"
   L.H. Ho, W.R. Clarke, R. Danneau, O. Klochan, **A.P. Micolich**, M.Y. Simmons, A.R. Hamilton, M. Pepper and D.A. Ritchie
   Proceedings of the "17th International Conference on the Electronic Properties of Two-Dimensional Systems (EP2DS-17)", Genoa, Italy, 15th - 20th July 2007.
   Published: *Physica E* **40**, 1700 (2008).

7. "Metallic behavior in low-disorder two-dimensional hole systems in the presence of long- and short-range disorder"
   W.R. Clarke, C.E. Yasin, A.R. Hamilton, **A.P. Micolich**, M.Y. Simmons, K. Muraki, Y. Hirayama, M. Pepper and D.A. Ritchie
   Proceedings of the "17th International Conference on the Electronic Properties of Two-Dimensional Systems (EP2DS-17)", Genoa, Italy, 15th - 20th July 2007.
   Published: *Physica E* **40**, 1599 (2008).

8. "0.7 Structure and zero bias anomaly in one-dimensional hole systems"
   R. Danneau, O. Klochan, W.R. Clarke, L.H. Ho, **A.P. Micolich**, M.Y. Simmons, A.R. Hamilton, M. Pepper and D.A. Ritchie
   Proceedings of the "17th International Conference on the Electronic Properties of Two-Dimensional Systems (EP2DS-17)", Genoa, Italy, 15th - 20th July 2007.
   Published: *Physica E* **40**, 1501 (2008).

9. "Digital video as a resource for teaching physics – A preliminary evaluation of effectiveness and some tips on how to do it better."
   A.P. Micolich
   Published: *Proceedings of 2008 National Uniserve Conference*, ISBN 978-1-74210-062-3, p.193 (2008).

10. "The effect of temperature and gas flow on the physical vapour growth of mm-scale rubrene crystals for organic FETs"
A.R. Ullah, **A.P. Micolich**, J.W. Cochrane and A.R. Hamilton
Proceedings of the SPIE Conference on Device and Process Technologies for Microelectronics, MEMS, Photonics and Nanotechnology IV, Canberra, Australia, 5th-7th December 2007. (Invited Paper)
Published: *Proceedings of SPIE* **6800**, doi 10.1117/12.759015 (2008).

11. "Single particle and momentum relaxation times in two-dimensional electron systems"
S.J. MacLeod, T.P. Martin, **A.P. Micolich** and A.R. Hamilton
Proceedings of the SPIE Conference on Device and Process Technologies for Microelectronics, MEMS, Photonics and Nanotechnology IV, Canberra, Australia, 5th-7th December 2007.
Published: *Proceedings of SPIE* **6800**, doi 10.1117/12.759655 (2008).

12. "Conductance quantization in induced one-dimensional hole systems"
O. Klochan, W. R. Clarke, R. Danneau, **A. P. Micolich**, L. H. Ho, A. R. Hamilton, K. Muraki and Y. Hirayama
Proceedings of the 28th International Conference on the Physics of Semiconductors (ICPS-28), Vienna, Austria, 24th – 28th July 2006.
Published: *American Institute of Physics Conference Proceedings* **893**, 681 (2007).

13. "An improved process for fabricating high-mobility organic molecular crystal field-effect transistors"
L.L. Bell, A.P. Micolich and A.R. Hamilton
Proceedings of the 2006 International Conference on Nanoscience and Nanotechnology, Brisbane, Australia, 3rd – 6th July 2006.
Published: *2006 International Conference on Nanoscience and Nanotechnology*, Vols 1 and 2, 658 (2006).

14. "Anisotropic Zeeman splitting in ballistic one-dimensional hole systems"
R. Danneau, O. Klochan, W.R. Clarke, L.H. Ho, **A.P. Micolich**, M.Y. Simmons, A.R. Hamilton, M. Pepper, D.A. Ritchie and U. Zülicke
Proceedings of the 28th International Conference on the Physics of Semiconductors (ICPS-28), Vienna, Austria, 24th – 28th July 2006.
Published: *American Institute of Physics Conference Proceedings* **893**, 699 (2007)

15. "Ballistic Transport in One-dimensional Bilayer Hole Systems"
R. Danneau, W.R. Clarke, O. Klochan, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, M. Pepper and D.A. Ritchie
Proceedings of the 16th International Conference on the Electronic Properties of Two-Dimensional Systems (EP2DS-16), Albequerque, New Mexico, U.S.A., 10th – 15th July 2005.
Published: *Physica E* **34**, 550 (2006).

16. "Fabrication and characterization of a 2D hole system in a novel (311)A GaAs SISFET"
W.R. Clarke, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, K. Muraki and Y. Hirayama
Proceedings of the 5th International Conference on Low-Dimensional Structures and Devices, Cancun, Mexico, 12th - 17th December 2004.
Published: *Microelectronics Journal* **36**, 327 (2005).

17. "Stability of the bilayer $\nu = 1$ quantum Hall state under charge imbalance"
W.R. Clarke, **A.P. Micolich**, A.R. Hamilton, M.Y. Simmons, M. Pepper, D.A. Ritchie
Proceedings of the "15th International Conference on the Electronic Properties of Two-Dimensional Systems (EP2DS-15)", Nara, Japan, 13th – 18th July 2003.
Published: *Physica E* **22**, 40 (2004).

18. "Generic Fractal Behaviour of Ballistic Devices"
R.P. Taylor, R. Newbury, **A.P. Micolich**, A.G. Davies, T.M. Fromhold, H. Linke, L.D. Macks, W.R. Tribe, E.H. Linfield, D.A. Ritchie and T.P. Martin
Proceedings of "2002 Conference on Optoelectronic and Microelectronic Materials and Devices"
Sydney, Australia, 11th – 13th December 2002.
Published: *Proceedings of The 2002 Conference on Optoelectronic and Microelectronic Materials and Devices*, 394, Ed. M. Gal, Spinning Head Publications ISBN 0-7803-7571-8 (2003)

19. "Fractal Transport Behaviour in Coupled Dot Systems"
Y. Ochiai, L. Lin, N. Aoki, Y. Iwase, K. Ishibashi, **A.P. Micolich**, R.P. Taylor and J.P. Bird
Published: Proceedings of "Localization 2002" Tokyo (2003).

20. "Geometry Independence of Fractal Ballistic Processes"
R.P. Taylor, T.P. Martin, **A.P. Micolich**, H. Linke, A.G. Davies, T.M. Fromhold, R. Newbury, E.H. Linfield and C.A. Marlow
Proceedings of "Fourth International Symposium on Nanostructures and Mesoscopic Systems"
Tempe, Arizona U.S.A, 17th – 21st February 2003.
Published: *Physica E* **19**, 225 (2003).

21. "Fractal Conductance Fluctuations in Single- and Double-layer Billiards"
R.P. Taylor, **A.P. Micolich**, H. Linke, A.G. Davies, T.M. Fromhold, R. Newbury, L.D. Macks, W.R. Tribe, E.H. Linfield, D.A. Ritchie, T. Martin and C. Marlow
Proceedings of "The 26th International Conference on the Physics of Semiconductors"
Edinburgh, Scotland, 29th July – 2nd August 2002.
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