

**Publications in Journals**  
**Klaus Ensslin**

1987

1. K. Ensslin, D. Heitmann, H. Sigg, and K. Ploog  
"Cyclotron resonance in AlGaAs-GaAs heterostructures with tunable charge density via front gates"  
Phys. Rev. **B36**, 8177 (1987), Rapid Communications

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2. K. Ensslin, D. Heitmann, H. Sigg, and K. Ploog  
"Effects of the filling factor on the cyclotron resonance in gated AlGaAs-GaAs heterostructures"  
Surf. Science **196**, 263 (1988)
3. K. Ensslin, D. Heitmann, and K. Ploog  
"Depopulation of subbands by magnetic and electric fields in gated AlGaAs-GaAs quantum wells"  
Phys. Rev. **B37**, 10150 (1988)
4. K. Ensslin, D. Heitmann, and K. Ploog  
"Depopulation and pinning of subbands in AlGaAs-GaAs quantum wells with two occupied subbands"  
Proceedings of the 19th Conference on the Physics of Semiconductors, Warsaw, 1988, p. 295
5. K. Ensslin, D. Heitmann, and K. Ploog  
"Resonant-subband-Landau-level-coupling in a two-dimensional electronic system: depolarization effect and dependence on carrier density"  
High Magnetic Fields in Semiconductor Physics II, Springer Series in Solid State Sciences 87, 289 (1988)

1989

6. K. Ensslin, D. Heitmann, and K. Ploog  
"Determination of subband structure, depolarization shift, and depletion charge in an AlGaAs-GaAs heterostructure"  
Phys. Rev. **B39**, 10879 (1989)
7. R. J. Nicholas, M. A. Hopkins, D. J. Barnes, M. A. Brummel, H. Sigg, D. Heitmann, K. Ensslin, J. J. Harris, C. T. Foxon, and G. Weimann  
"Anomalies in the cyclotron resonance in high-mobility GaAs-AlGaAs heterojunctions"  
Phys. Rev. **B39**, 10955 (1989)
8. K. Ensslin, D. Heitmann, M. Dobers, K. v. Klitzing, and K. Ploog  
"Electrical depopulation of double quantum wells"  
Phys. Rev. **B39**, 11179 (1989), Rapid Communications
9. K. Ensslin, D. Heitmann, R. R. Gerhardts, and K. Ploog  
"Population process of the upper subband in AlGaAs-GaAs quantum wells"  
Phys. Rev. **B39**, 12993 (1989), Rapid Communications

10. K. Ensslin, D. Heitmann, and K. Ploog  
"Wave function sweeping in AlGaAs-GaAs quantum wells"  
Appl. Phys. Lett. **55**, 368 (1989)  
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11. A. Wixforth, M. Sundaram, K. Ensslin, J. H. English, and A. C. Gossard  
"Gate-controlled subband structure and dimensionality of the electron system in a wide parabolic quantum well"  
Appl. Phys. Lett. **56**, 454 (1990)
12. K. Ensslin, D. Heitmann, and K. Ploog  
"Influence of the exchange interaction on the population process of the upper subband"  
Surf. Science **228**, 456 (1990)
13. K. Ensslin and P. M. Petroff  
"Magnetotransport through an antidot lattice in GaAs-AlGaAs heterostructures"  
Phys. Rev. **B41**, 12307 (1990), Rapid Communications
14. S. Sasa, M. S. Miller, Y. J. Li, Z. Xu, K. Ensslin, and P. M. Petroff  
"Localized two-dimensional electron gas formation by focused Si ion beam implantation into GaAs/AlGaAs heterostructures"  
Appl. Phys. Lett. **57**, 2259 (1990)
15. K. Ensslin, A. Wixforth, M. Sundaram, J. H. English and A. C. Gossard  
"Wide graded potential wells: growth, electrical properties and theoretical results"  
Proceedings of the SPIE conference on Growth of Semiconductor Structures and High-Tc Thin Films on Semiconductors, San Diego, p.66
16. D. Heitmann and K. Ensslin  
"Far-infrared spectroscopy of two-dimensional electronic systems with tunable charge density"  
Quantum Coherence in Mesoscopic Systems, Edited by B. Kramer, Plenum Press, New York, 1991
17. P. M. Petroff, K. Ensslin, M. S. Miller, S. A. Chalmers, H. Weman, J. Merz, H. Kroemer, and A. C. Gossard  
"Novel approaches in 2 and 3 dimensional confinement structures: processing and properties"  
Superlattices and Microstructures **8**, 39(1991)
18. K. Ensslin and P. M. Petroff  
"Electron transport through an antidot lattice in GaAs heterostructures"  
Proceedings of the 20th International Conference on the Physics of Semiconductors, Thessaloniki, Greece, 1990, p. 2335
19. Q. X. Zhao, J. P. Bergman, P. O. Holtz, B. Monemar, K. Ensslin, M. Sundaram, J. L. Merz, and A. C. Gossard  
"Spectroscopic study of 2D-carrier radiative recombination in doped AlGaAs/GaAs heterojunctions"  
Proceedings of the 20th International Conference on the Physics of Semiconductors, Thessaloniki, Greece, 1990, p. 1533

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20. K. Ensslin, S. A. Chalmers, P. M. Petroff, A. C. Gossard, and H. Kroemer  
"Anisotropic magnetotransport in an antiwire array inserted in a GaAs heterostructure"  
Superlattices and Microstructures **9**, 119 (1991)
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"Spectroscopic study of radiative recombinations in AlGaAs/GaAs heterostructures"  
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22. M. Sundaram, K. Ensslin, A. Wixforth, and A. C. Gossard  
"Magneto-capacitance-voltage measurements of electrons in wide parabolic quantum wells"  
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23. K. Ensslin, M. Sundaram, A. Wixforth, J. H. English, and A. C. Gossard  
"Suppression and recovery of quantum Hall plateaus in a parabolic quantum well"  
Phys. Rev. **B43**, 9988 (1991), Rapid Communications
24. A. Wixforth, M. Sundaram, K. Ensslin, J. H. English, and A. C. Gossard  
"Dimensional resonances in wide parabolic quantum wells"  
Phys. Rev. **B43**, 10000 (1991), Rapid Communications
25. P. M. Petroff, Y. J. Li, Z. Xu, W. Beinstingl, S. Sasa, and K. Ensslin  
"Nanostructure processing by focused ion beam implantation"  
J. Vac. Sci. Technol. **B9**, 3074 (1991)

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26. A. Wixforth, M. Sundaram, K. Ensslin, J. H. English, and A. C. Gossard  
"Electron plasma resonances in wide parabolic quantum wells"  
Surface Science **267**, 523 (1992)
27. K. Ensslin, M. Sundaram, A. Wixforth, and A. C. Gossard  
"Suppression of quantum Hall plateaus and nonlinear Landau level fan diagram in a parabolic quantum well"  
Surface Science **267**, 553 (1992)
28. C. Nguyen, K. Ensslin, and H. Kroemer  
"Magneto-transport in InAs/AlSb quantum wells with large electron concentration modulation"  
Surface Science **267**, 549 (1992)
29. K. Ensslin, S. Sasa, T. Deruelle, and P. M. Petroff  
"Anisotropic electron transport through rectangular antidot lattices"  
Surface Science **263**, 319 (1992)
30. T. Deruelle, K. Ensslin, P. M. Petroff, A. L. Efros, and F. G. Pikus,  
"Effective size of scattering centers in a two-dimensional electron gas"  
Phys. Rev. **B45**, 9082 (1992)
31. K. Ensslin, C. Pistitsch, A. Wixforth, M. Sundaram, P. F. Hopkins, and A. C. Gossard  
"Direct observation of resonant subband-Landau-level-coupling in a transport

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32. K. Ensslin, K. T. Häusler, C. Lettau, A. Lorke, J. P. Kotthaus, A. Schmeller, R. Schuster, P. M. Petroff, M. Holland, and K. Ploog  
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34. M. Kaloudis, K. Ensslin, A. Wixforth, M. Sundaram, J. H. English, and A. C. Gossard  
"Resonant coupling of collective intra- and intersubband excitations in a parabolically confined electron system"  
Phys. Rev. **B46**, 12469 (1992)  
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35. K. Ensslin, A. Wixforth, M. Sundaram, P. F. Hopkins, J. H. English, and A. C. Gossard  
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"Selective probing of ballistic electron orbits in rectangular antidot lattices"  
Phys. Rev. **B47**, 6843 (1993), Rapid Commun.  
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37. K. Ensslin, H. Baum, P. F. Hopkins, and A. C. Gossard  
"Wave function modification via controlled potential perturbation"  
Surf. Science **305**, 317 (1994)
38. T. Utzmeier, T. Schlösser, K. Ensslin, J. P. Kotthaus, C. R. Bolognesi, C. Nguyen, and H. Kroemer  
"Lateral potential modulation in InAs/AlSb quantum wells by wet etching"  
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40. R. Schuster, K. Ensslin, D. Wharam, S. Kühn, J. P. Kotthaus, G. Böhm, W. Klein, G. Tränkle, and G. Weimann  
"Phase coherent electrons in a finite antidot lattice"  
Phys. Rev. **B49**, 8510 (1994), Rapid Commun.
41. R. Schuster and K. Ensslin  
"Antidot superlattices: classical chaos and quantum transport"  
Festkörperprobleme **34**, 195 (1994)

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"Experimental characterization of electron trajectories in antidot lattices"  
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Superl. and Microstructures **15**, 325 (1994)  
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"Corrugation-induced transverse voltage in lateral superlattices"  
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Phys. Rev. **B52**, 14699 (1995)
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"Antidot-Übergitter - Flippern mit Elektronen"  
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