

## Publications in Physics

**U. Menzel**, A. Bärwolff, P. Enders, D. Ackermann, R. Puchert, and M. Voß, ‘Modeling the temperature dependence of threshold current, external differential efficiency and lasing wavelength in QW laser diodes’, *Semicond. Sci. Technol.*, vol. 10, pp. 1382-1392, 1995. Number of citations: 29

A. Bärwolff, R. Puchert, P. Enders, **U. Menzel**, and D. Ackermann, ‘Analysis of Thermal Behaviour of High Power Semiconductor Laser Arrays by Means of the Finite Element Method (FEM)’, *Journal of Thermal Analysis* vol. 45, pp. 417 - 436, 1995. Number of citations: 8

M. Voß, C. Lier, **U. Menzel**, A. Bärwolff, T. Elsässer, ‘Time resolved emission studies of GaAs/AlGaAs laser diode arrays on different heat sinks’, *J. Appl. Phys.* 79 (2), pp. 1170 - 1172, 1996. Number of citations: 35

R. Puchert, A. Bärwolff, **U. Menzel**, A. Lau, M. Voß, and T. Elsaesser, ‘Facet and bulk heating of GaAs/AlGaAs high-power laser arrays studied in spatially resolved emission and micro-Raman experiments’, *J. Appl. Phys.* vol. 80, pp. 5559-5563, 1996. Number of citations: 17

R. Puchert, **U. Menzel**, M. Voß, Ch. Lier, A. Bärwolff, ‘Influence of heat source distributions in GaAs/GaAlAs quantum-well high power laser arrays on temperature profile and thermal resistance’, *J. Thermal Analysis*, vol. 48, pp. 1273-1282, 1997. Number of citations: 6

J. W. Tomm, A. Bärwolff, **U. Menzel**, M. Voß, R. Puchert, and T. Elsaesser F.X. Daiminger, S. Heinemann and J. Luft „Monitoring of Aging Properties of AlGaAs High-Power Laser Arrays“ *J. Appl. Phys.* **81**, 2059-63 (1997). Number of citations: 18

**Uwe Menzel**, Roland Puchert, A. Baerwolff, and A. Lau “Heating of the front and rear facets of GaAlAs/GaAs edge emitting laser diodes” Proc. SPIE, Vol. 2994, 591 (1997). Number of citations: 1

Jens W. Tomm, A. Baerwolff, **Uwe Menzel**, Ch. Lier, Thomas Elsaesser, Franz X. Daiminger and Stefan Heinemann “Aging behavior of high-power laser arrays monitored by photocurrent spectroscopy“ Proc. SPIE, Vol. **3004**, 134 (1997). Number of citations: 1

**U. Menzel**, ‘Self consistent calculation of facet heating in asymmetrically coated edge emitting diode lasers’, *Semicond. Sci. Technol.* vol. 13, pp. 265-276, 1998. Number of citations: 8

**U. Menzel**, R. Puchert, A. Bärwolff, and A. Lau, ‘Facet heating and axial temperature profiles in high-power GaAlAs/GaAs laser diodes’, *Microelectron. Reliab.* vol. 38, pp. 821-825, 1998 (*invited paper*). Number of citations: 8

R. Puchert, A. Bärwolff, M. Voß, **U. Menzel**, J.W. Tomm and J. Luft „Transient Thermal Behavior of High Power Diode Laser Arrays“ *IEEE Transactions on Components and Packaging Technologies* **23**, 95-100 (2000). Number of citations: 18

## Publications in Bioinformatics/Biostatistics

M. Hattori, A. Fujiyama, T. D. Taylor, H. Watanabe, T. Yada, H.-S. Park, A. Toyoda, K. Ishii, Y. Totoki, D.-K. Choi, E. Soeda, M. Ohki, T. Takagi, Y. Sakaki, S. Taudien, K. Blechschmidt, A. Polley, **U. Menzel**, J. Delabar, K. Kumpf, R. Lehmann, D. Patterson, K. Reichwald, A. Rump, M. Schillhabel, A. Schudy, W. Zimmermann, A. Rosenthal, J. Kudoh, K. Shibuya, K. Kawasaki, S. Asakawa, A. Shintani, T. Sasaki, K. Nagamine, S. Mitsuyama, S. E. Antonarakis, S. Minoshima, N. Shimizu, G. Nordstieck, K. Hornischer, P. Brandt, M. Scharfe, O. Schön, A. Desario, J. Reichelt, G. Kauer, H. Blöcker, J. Ramser, A. Beck, S. Klages, S. Hennig, I. Riesselmann, E. Dagand, T. Haaf, S. Wehrmeyer, K. Borzym, K. Gardiner, D. Nizetic, F. Francis, H. Lehrach, R. Reinhardt & M.-L. Yaspo: *The DNA sequence of human chromosome 21*, **Nature** 405, 311 – 319, 2000. Number of citations: 744

S. Taudien, A. Rump, M. Platzer, B. Drescher, R. Schattevoy, G. Gloeckner, M. Dette, C. Baumgart, J. Weber, **U. Menzel**, A. Rosenthal: RUMMAGE: a high throughput sequence annotation system, **Trends in Genetics** vol. 16, pp. 519-521, 2000. Number of citations: 24

Patrick G. Buckley, Kiran K. Mantripragada, Magdalena Benetkiewicz, Isabel Tapia-Páez, Teresita Diaz de Ståhl, Magnus Rosenquist, Haider Ali, Caroline Jarbo, Cecilia de Bustos, Carina Hirvelä, Birgitta Sinder Wilén, Ingegerd Fransson, Charlotte Thyr, Britt-Inger Johnsson, Carl E.G. Bruder, **Uwe Menzel**, Martin Hergersberg, Nils Mandahl, Elisabeth Blennow, Anna Wedell, David Beare, John Collins, Ian Dunham, Donna Albertson, Daniel Pinkel, Boris C. Bastian, A. Fawad Faruqi, Roger S. Lasken, Koichi Ichimura, V. Peter Collins and Jan P. Dumanski, “*A full-coverage, high-resolution human chromosome 22 genomic microarray for clinical and research applications*“. **Human Molecular Genetics** Vol. 11, No. 25 pp. 3221–3229, 2002. Number of citations: 139

C. Hansson, Haider Ali, Carl E. G. Bruder, Ingegerd Fransson, Sindy Kluge, Björn Andersson, Bruce A. Roe, **Uwe Menzel** and Jan P. Dumanski, ‘*Strong conservation of the human NF2 locus based on sequence comparison in five species*’, **Mammalian Genome** Vol. 14, No. 8 pp. 526-536, 2003. Number of citations: 8

Kiran K. Mantripragada, Patrick G. Buckley, Caroline Jarbo, **Uwe Menzel**, and Jan Dumanski, “*Development of NF2 gene-specific, strictly sequence defined diagnostic microarray for deletion detection*”, **Journal of Molecular Medicine** Vol. 81, pp. 443-451, 2003. Number of citations: 33

Patrick G. Buckley, Caroline Jarbo, **Uwe Menzel**, Tiit Mathiesen, Carol Scott, Simon G. Gregory, Cordelia F. Langford, and Jan P. Dumanski, “*Comprehensive DNA copy number profiling of meningioma using a full-coverage chromosome 1 microarray identifies novel candidate tumor suppressor loci*”, **Cancer Res.** 2005; 65: (7). April 1, 2005. Citations: 41

Patrick G. Buckley, Kiran K. Mantripragada, Teresita Díaz de Ståhl, Arkadiusz Piotrowski, Caisa M. Hansson, Hajnalka Kiss, David Vetrie, Ingemar T. Ernberg, Magnus Nordenskjöld, Lars Bolund, Markku Sainio, Guy A. Rouleau, Michihito Niimura, Andrew J. Wallace, D. Gareth R. Evans, Gintautas Grigelionis, **Uwe Menzel**, Jan P. Dumanski: *Identification of genetic aberrations on chromosome 22 outside the NF2 locus in schwannomatosis and neurofibromatosis type 2*. **Human Mutation**, 26(6), 540-549, 2005. Number of citations: 13

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Marcel Kramer, Klaus Huse, **Uwe Menzel**, Oliver Backhaus, Philip Rosenstiel, Stefan Schreiber, Jochen Hampe and Matthias Platzer: *Constant Splice Isoform Ratios in Human Lymphoblastoid Cells Support the Concept of a Splice-Stat*. **Genetics**. Advance Online Publication: January 10, 2011

Number of citations according to *Google Scholar*

## Publicly available software tools

**U. Menzel**, 2009, R-package “CCP”: **Significance Tests for Canonical Correlation Analysis**, <http://cran.r-project.org/> => packages => CCP

**U. Menzel**, 2010: R-package “EMT”: **Goodness-of-fit test for Multivariate data**, <http://cran.r-project.org/> => packages => EMT