



A selection of peer-reviewed publications from mirao customers

- K. Kurokawa, D. Tamada, S. Makita, and Y. Yasuno, "Adaptive optics retinal scanner for one-micrometer light source," *Optics Express* **18**, 1406-1418 (2010).
- D. A. Atchison, H. Guo, N. W. Charman, and S. W. Fisher, "Blur limits for defocus, astigmatism and trefoil," *Vision Research* **49**, 2393-2403 (2009).
- J. Carroll, R. Baraas C., M. Wagner-Schuman, J. Rha, C. Siebe A., C. Sloan, D. Tait M., S. Thompson, J. Morgan I. W., J. Neitz, D. R. Williams, D. Foster H., and M. Neitz, "Cone photoreceptor mosaic disruption associated with Cys203Arg mutation in the M-cone opsin," *Proceedings of the National Academy of Sciences* **106**, 20948-20953 (2009).
- J. Rha, B. Schroeder, P. Godara, and J. Carroll, "Variable optical activation of human cone photoreceptors visualized using a short coherence light source," *Optics Letters* **34**, (2009).
- C. Torti, B. Povazay, B. Hofer, A. Unterhuber, J. Carroll, P. K. Ahnelt, and W. Drexler, "Adaptive optics optical coherence tomography at 120,000 depth scans/s for non-invasive cellular phenotyping of the living human retina," *Optics Express* **17**, 19382-19400 (2009).
- D. A. Atchison, H. Guo, and S. W. Fisher, "Limits of spherical blur determined with an adaptive optics mirror," *Ophthalmic and Physiological Optics* **29**, 300-311 (2009).
- E. Gamba, L. Sawides, C. Dorransoro, and S. Marcos, "Accommodative lag and fluctuations when optical aberrations are manipulated," *Journal of Vision* **9**, 4.1-15 (2009).
- N. Devaney, D. Coburn, C. Coleman, C. J. Dainty, E. Dalimier, T. Farrell, D. Lara, D. Mackey, and R. Mackey, "Characterisation of MEMs mirrors for use in atmospheric and ocular wavefront correction," in *MEMS Adaptive Optics II*, S. S. Olivier, T. G. Bifano, and J. A. Kubby, eds. (SPIE, 2008), pp. 688802.
- E. J. Fernández, B. Hermann, B. Povazay, A. Unterhuber, H. Sattman, B. Hofer, P. K. Ahnelt, and W. Drexler, "Ultrahigh resolution optical coherence tomography and pancorrection for cellular imaging of the living human retina," *Optics Express* **16**, 11083-11094 (2008).
- K. M. Hampson, "Adaptive optics and vision," *Journal of Modern Optics* **55**, 3425-3467 (2008).
- P. Kner, J. Sedat, D. Agard, and Z. Kam, "Applying adaptive optics to three-dimensional wide-field microscopy," in *MEMS Adaptive Optics II*, S. S. Olivier, T. G. Bifano, and J. A. Kubby, eds. (SPIE, 2008), pp. 688809.
- S. Marcos, L. Sawides, E. Gamba, and C. Dorransoro, "Influence of adaptive-optics ocular aberration correction on visual acuity at different luminances and contrast polarities," *Journal of Vision* **8**, 1-12 (2008).
- E. Gamba, L. Sawides, C. Dorransoro, L. Llorente, and S. Marcos, "Development, calibration and performance of an electromagnetic mirror based adaptive optics system for visual optics," in *6th International Workshop on Adaptive Optics for Industry and Medicine*, C. J. Dainty, ed. (Imperial College Press, 2007), pp. 322-328.
- R. Sabesan, K. Ahmad, and G. Yoon, "Correcting Highly Aberrated Eyes Using Large-stroke Adaptive Optics," *Journal of Refractive Surgery* **23**, 947-952 (2007).
- F. J. Enrique, L. Vabre, B. Hermann, A. Unterhuber, B. Povazay, and W. Drexler, "Adaptive optics with a magnetic deformable mirror: applications in the human eye," *Optics Express* **14**, 8900-8917 (2006).



Some articles from leading industry publications

W. Drexler, "OCT imaging leaps to the next generation," *BioOptics World* **1**, 22-30 (2008).

P. Kner and Z. Kam, "Adaptive optics takes tissue imaging to the next level," *BioOptics World* **1**, 32-34 (2008).

I. Petrou, "Electromagnetic deformable mirror assists in retinal diagnostics," *Ophthalmology Times* (2008).

M. Zacharria, "The eyes have it - Adaptive optics approaches clinical ophthalmology," *BioOptics World* **1**, 22-26 (2008).