

ANNA LISA STÖCKL

Phone: +49 931 31 86572

Email: anna.stoeckl@uni-wuerzburg.de

Web: www.annastoeckl.com

ORCID: 0000-0002-0833-9995

Würzburg University

Chair of Behavioral

Physiology and Sociobiology

Am Hubland, DE-97074 Würzburg

ORIGINAL RESEARCH

Gesamt: 15

Zitate: 184

Erstautor: 13

h-index (i10): 8 (7)

Stöckl, A., O'Carroll, D.C., Warrant, E.J. (2020) Hawkmoth lamina monopolar cells act as dynamic spatial filters to optimise vision at different light levels. *Science Advances*. 6: eaaz8645

Stöckl*, A., Grittner, R., Pfeiffer, K. (2019) The role of lateral optic flow cues in hawkmoth flight control. *J Exp Biol*. 10.1242/jeb.199406

Dahake*, A., **Stöckl***, A., Sane, S. P. & Kelber, A. (2018) The roles of vision and antennal mechanoreception in hawkmoth flight control. *eLife* 7:e37606 (*joint first author)

Stöckl, A., O'Carroll D., Warrant E. (2017) Higher-order neural processing tunes motion neurons to visual ecology in three species of hawkmoths. *Proc R Soc London B*. 284:20170880

Stöckl, A., Kihlström, K., Chandler, G.S., Sponberg, S. (2017) Comparative system identification of flower tracking performance in three hawkmoth species reveals adaptations for dim light vision. *Phil Trans B*. 372: 20160078.

Stöckl, A., O'Carroll D., Warrant E. (2016) Neural summation in the hawkmoth visual system boosts contrast sensitivity and information rate in dim light. *Curr Biol*. 26: 821–826

Stöckl, A., Ribi W., Warrant E. (2016) Adaptations for nocturnal and diurnal vision in the hawkmoth lamina. *J Comp Neurol*. 524: 160–175

Stöckl, A., Heinze S., Charalabidis A., el Jundi, B., Warrant E., Kelber A. (2015) Differential investment in visual and olfactory brain areas predicts behavioural performance in hawkmoths. *Sci Reports*. 6: 26041

Stöckl, A., Heinze S. (2015) A clearer view of the insect brain - combining bleaching with standard whole-mount immunocytochemistry allows confocal imaging of pigment-covered brain areas for 3D reconstruction. *Front Neuroanat*. 9: 10.3389/fnana.2015.00121

Stöckl A., Sinz F., Grewe J., Benda J. (2014) Parallel encoding of communication signals in the weakly electric fish *Eigenmannia virescens*. *J Neurophysiol*. 112(9): 2076-2091.

Sinz F., **Stöckl A.**, Grewe J., Benda J. (2013) Least informative dimension. *Adv Neural Inf Process Syst*. 26: 413–421

Stöckl A., Petie R., Nilsson D.-E. (2011) Setting the Pace: New Insights into Central Pattern Generator Interactions in Box Jellyfish Swimming. *PLoS ONE*. 6(11): e27201.

REVIEWS

Stöckl*, A., Kelber, A. (2019) Fueling on the wing - sensory ecology of hawkmoth foraging. *J Comp Physiol A*. doi: 10.1007/s00359-019-01328-2

Stöckl, A., Smolka J., O'Carroll D., Warrant E. (2017) Resolving the Trade-off Between Visual Sensitivity and Spatial Acuity—Lessons from Hawkmoths. *Int Comp Biol*. 10.1093/icb/ix058

Stöckl, A. (2016) Neurons against Noise: Neural adaptations for dim light vision in hawkmoths. PhD Thesis, Lund University. ISBN: 978-91-7753-065-7

POPULAR SCIENTIFIC ARTICLES

Stöckl, A. (2017) Mit guter Sicht gut durch die Nacht. *KlarText Magazin, DIE ZEIT*. Oktober, S. 11-12

Stöckl, A., Niopek, D., Eils, R. (2009) E.colizenz zum Töten. *Spektrum der Wissenschaft*. April, S. 16-17