



OTTO VON GUERICKE  
UNIVERSITÄT  
MAGDEBURG

**NAT**

FAKULTÄT FÜR  
NATURWISSENSCHAFTEN

# Publikationsbericht 2019

Fakultät für Naturwissenschaften

# FAKULTÄT FÜR NATURWISSENSCHAFTEN

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## 1. LEITUNG

Dekan  
Prof. Dr. rer. nat. habil. Oliver Speck  
Prodekan  
Prof. Dr. med. Markus Ullsperger  
Studiendekan  
Prof. Dr. rer. nat. Fred Schaper

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE BUCHBEITRÄGE

**Zoun, Roman; Schallert, Kay; Broneske, David; Fenske, Wolfram; Pinnecke, Marcus; Heyer, Robert; Brehmer, Sven; Benndorf, Dirk; Saake, Gunter**

MSDataStream - connecting a bruker mass spectrometer to the internet  
Datenbanksysteme für Business, Technologie und Web - Bonn: Gesellschaft für Informatik e.V.; Grust, Torsten, S. 507-510, 2019 - (GI-Edition - Lecture notes in informatics; Proceedings\$1289);  
[Fachtagung: 18. Fachtagung "Datenbanksysteme für Business, Technologie und Web", BTW 2019, Rostock, 4.-8. März 2019]

### DISSERTATIONEN

**Abele, Julia; Dieterich, Daniela C. [AkademischeR BetreuerIn]**

Ageing in a dish - strategies to rejuvenate neuronal cell cultures and balance protein homeostasis  
Magdeburg, 2019, IX, 138 Blätter, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Blatt 105-137]

**Ahmadi, Khazar; Hoffmann, Michael [AkademischeR BetreuerIn]**

Plasticity and stability of the cortical wiring in the human visual system  
Magdeburg, 2019, X, 125 Seiten, Illustrationen;  
[Literaturverzeichnis: Seite 107-120]

**Cepeda-Prado, Efrain Augusto; Leßmann, Volkmar [AkademischeR BetreuerIn]**

Mechanisms of spike timing-dependent LTP in CA1 region of the hippocampus induced with low repeat of coincident pre- and postsynaptic spiking  
Magdeburg, 2019, xi, 106 Seiten, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Seite 84-100]

**Colic, Lejla; Walter, Martin [AkademischeR BetreuerIn]**

Association of spectroscopic and rs-fMRI markers with vulnerability factors, endophenotypes and clinical dimensions and conditions of affective disorders  
Magdeburg, 2019, 192, xxxi Seiten, Illustrationen;  
[Literaturverzeichnis: Seite 165-192]

**Dittrich, Sandra; Noesselt, Tömme [GutachterIn]**

Audiovisuelle Bewegungsvorhersage im dreidimensionalen Raum  
Magdeburg, 2019, 155 Blätter, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Blatt 100-120]

**Fariza, Aqdas; Dadgar, Armin [AkademischeR BetreuerIn]**

Surface and electrical properties of GaN layers - impact on GaN/AlInN FETs  
Magdeburg, 2019, xvi, 127 Seiten, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Seite 119-127]

**Heck, Jennifer**

Optogenetic modulation of calcium channel dynamics in the presynaptic membrane  
Düren: Shaker Verlag, 2019, XXII, 209 Seiten, 42 Illustrationen, Diagramme, 24 cm, 351 g - (Berichte aus der Biologie);  
[Literaturverzeichnis: Seite 147-167]

**Heyde, Sandrina**

The role of 'Leishmania major' proliferation for the interaction between the parasite and its tissue environment 'in vivo'  
Magdeburg, 2019, XV, 126 Blätter, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Blatt 98-110]

**Hilgardt, Christiane; Marwan, Wolfgang [GutachterIn]**

Biologische Variabilität bei der Musterbildung von 'Dictyostelium discoideum'  
Magdeburg Univ., Fak. für Naturwiss., Diss., 2010, X, 168 S., Ill., graph. Darst., 30 cm

**Katsoulis-Dimitriou, Konstantinos; Schmitz, Ingo [AkademischeR BetreuerIn]**

Characterization of the atypical NF- $\kappa$ B-inhibitory protein I $\kappa$ B-NS in natural killer cells and T cells  
Magdeburg, 2019, 120 Blätter, Illustrationen;  
[Literaturverzeichnis: Blatt 108-120]

**Keute, Marius; Zähle, Tino [AkademischeR BetreuerIn]**

The neuropsychology of transcutaneous vagus nerve stimulation  
Magdeburg, 2019, 145 Seiten, Illustrationen;  
[Literaturverzeichnis: Seite 115-144]

**Khalili, Afshin**

Organization of relief versus punishment memories in the brain of adult Drosophila  
Magdeburg, 2019, 91 Seiten, Illustrationen, Diagramme, 21 cm;  
[Literaturverzeichnis: Seite 67-77]

**Madencioglu Kul, Deniz Ashan; Stork, Oliver [AkademischeR BetreuerIn]**

Roles of the Hippo pathway kinase Ndr2 in neural development and behavior  
Magdeburg, 2019, xii, 87 Blätter, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Blatt 76-86]

**Müller, Mathias; Christen, Jürgen [AkademischeR BetreuerIn]**

Untersuchungen von Inhomogenitäten und kompositionellen Gradienten in Cu(In, Ga)Se<sub>2</sub> mittels hoch orts-, hoch spektral- und hoch zeitaufgelöster Kathodolumineszenz  
Magdeburg, 2019, 115 Seiten, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Seite 103-114]

**Müller, Patrick; Richter, Johannes [AkademischeR BetreuerIn]**

Stark frustrierte Quantenmagnete - Grundzustand und Thermodynamik  
Magdeburg, 2019, 201 Seiten, Illustrationen, Diagramme, 30 cm;  
[Literaturverzeichnis: Seite 185-201]

**Oulé, Marie**

Kv4.2 channels regulate the dendritic excitability of mature granule cells of the dentate gyrus in an input-specific manner

Magdeburg, 2019, 116 Seiten, Illustrationen;

[Literaturverzeichnis: Seite 93-112]

**Peterson, Adam Joseph; Heil, Peter [AkademischeR BetreuerIn]**

Modeling spike-timing mechanisms in spontaneous and phase-locked activity of mammalian auditory-nerve fibers

Magdeburg, 2019, xiv, 189 Seiten, Diagramme, 30 cm;

[Literaturverzeichnis: Seite 167-187]

**Schmidt, Anne; Pollmann, Stefan [AkademischeR BetreuerIn]**

Spatial contextual cueing in handball players and action video game players

Magdeburg, 2018, VII, 88 Blätter, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Blatt 71-88]

**Schwarz, Erika Lisa; Schmitz, Ingo [AkademischeR BetreuerIn]**

Identifizierung und Charakterisierung von c-FLIP-modulierenden Substanzen aus Myxobakterien

Magdeburg, 2019, v, 107 Seiten, Illustrationen, Diagramme, 30 cm;

[Auf dem Titelblatt falsches Promotionsdatum. Richtig: 10.05.2019; Literaturverzeichnis: Seite 95-105]

**Seiß, Elena Anne; Müller, Andreas J. [AkademischeR BetreuerIn]**

Characterization of Staphylococcus aureus skin infection using a new in vivo proliferation biosensor

Magdeburg, 2019, X, 153 Seiten, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Seite 107-130]

**Wagenbreth, Caroline; Zähle, Tino [AkademischeR BetreuerIn]**

Cognitive and emotional effects of Deep Brain Stimulation of the Subthalamic Nucleus in patients with Parkinson's disease

Magdeburg, 2019, XI, 138 Blätter, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Blatt 117-137]

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## 1. LEITUNG

Prof. Jochen Braun, Ph.D.

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Aleshin, Stepan; Ziman, Gergo; Kovács, Ilona; Braun, Jochen**

Perceptual reversals in binocular rivalry - improved detection from OKN

Journal of vision - Rockville, Md.: ARVO, Volume 19, issue 3 (2019), article 5, insgesamt 18 Seiten;

[Imp.fact.: 2.089]

**Ambrosen, Karen S.; Eskildsen, Simon F.; Hinne, Max; Krug, Kristine; Lundell, Henrik; Schmidt, Mikkel N.; Gerven, Marcel A. J.; Mørup, Morten; Dyrby, Tim B.**

Validation of structural brain connectivity networks - the impact of scanning parameters

NeuroImage - Orlando, Fla.: Academic Press, Volume 204 (2020), article 116207, insgesamt 13 Seiten;

[Imp.fact.: 5.812]

**Andres-Alonso, Maria; Ammar, Mohamed Raafet; Butnaru, Ioana; Gomes, Guilherme M.; Acuña Sanhueza, Gustavo A.; Raman, Rajeev; Yuanxiang, PingAn; Borgmeyer, Maximilian; Lopez-Rojas, Jeffrey; Raza, Syed Ahsan; Brice, Nicola; Hausrat, Torben J.; Macharadze, Tamar; Diaz-Gonzalez, Silvia; Carlton, Mark; Failla, Antonio Virgilio; Stork, Oliver; Schweizer, Michaela; Gundelfinger, Eckart D.; Kneussel, Matthias; Spilker, Christina; Karpova, Anna; Kreutz, Michael R.**

SIPA1L2 controls trafficking and local signaling of TrkB-containing amphisomes at presynaptic terminals

Nature Communications - [London]: Nature Publishing Group UK, Volume 10.2019, article number 5448, insgesamt 17 Seiten;

[Imp.fact.: 11.878]

**Ardi, Z.; Richter-Levin, A.; Xu, L.; Cao, X.; Volkmer, H.; Stork, Oliver; Richter-Levin, G.**

The role of the GABAA receptor Alpha 1 subunit in the ventral hippocampus in stress resilience

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Volume 9 (2019), article number 13513, insgesamt 11 Seiten;

[Imp.fact.: 4.011]

**Billing, Ulrike; Jetka, Tomasz; Nortmann, Lukas; Wundrack, Nicole; Komorowski, Michal; Waldherr, Steffen; Schaper, Fred; Dittrich, Anna**

Robustness and information transfer within IL-6-induced JAK/STAT signalling

Communications biology - London: Springer Nature, Vol. 2.2019, Art. 27, insgesamt 14 S.;

**Blanco Redondo, Beatriz; Nuwal, Nidhi; Kneitz, Susanne; Nuwal, Tulip; Halder, Partho; Liu, Yiting; Ehmann, Nadine; Scholz, Nicole; Mayer, Annika; Kleber, Jörg; Kähne, Thilo; Schmitt, Dominique; Sadanandappa, Madhumala K.; Funk, Natalja; Albertova, Viera; Helfrich-Förster, Charlotte; Ramaswami, Mani; Hasan, Gaiti; Kittel, Robert Johannes; Langenhan, Tobias; Gerber, Bertram; Buchner, Erich**

Implications of the Sap47 null mutation for synapsin phosphorylation, longevity, climbing proficiency and behavioural plasticity in adult Drosophila

The journal of experimental biology - Cambridge, Volume 222.2019, Part 19, article jeb203505;  
[Imp.fact.: 3.017]

**Bongartz, Hannes; Gille, Karen; Hessenkemper, Wiebke; Mandel, Katharina; Lewitzky, Marc; Feller, Stephan M.; Schaper, Fred**

The multi-site docking protein Grb2-associated binder 1 (Gab1) enhances interleukin-6-induced MAPK-pathway activation in an SHP2-, Grb2-, and time-dependent manner

Cell communication and signaling - London: Biomed Central, Volume 17 (2019), Article 135, insgesamt 23 Seiten;

[Imp.fact.: 5.111]

**Bridge, Holly; Bell, Andrew H.; Ainsworth, Matthew; Sallet, Jerome; Premereur, Elsie; Ahmed, Bashir; Mitchell, Anna S.; Schüffelgen, Urs; Buckley, Mark; Tandler, Benjamin C.; Miller, Karla L.; Mars, Rogier B.; Parker, Andrew J.; Krug, Kristine**

Preserved extrastriate visual network in a monkey with substantial, naturally occurring damage to primary visual cortex

eLife - Cambridge: eLife Sciences Publications, Volume 8 (2019), article e42325, insgesamt 29 Seiten;

**Coors, Andreas; Brosch, Marcel; Kahl, Evelyn; Khalil, Radwa; Michels, Birgit; Laub, Annegret; Franke, Katrin; Gerber, Bertram; Fendt, Markus**

Rhodiola rosea root extract has antipsychotic-like effects in rodent models of sensorimotor gating

Journal of ethnopharmacology - New York, NY [u.a.]: Elsevier, Bd. 235.2019, S. 320-328;

[Imp.fact.: 3.414]

**Feldman, Ruth; Braun, Anna Katharina; Champagne, Frances A.**

The neural mechanisms and consequences of paternal caregiving

Nature reviews / Neuroscience - London: Nature Publ. Group, Bd. 20.2019, S. 205-224;

[Imp.fact.: 33.162]

**Gerber, Bertram; König, Christian; Fendt, Markus; Andreatta, Marta; Romanos, Marcel; Pauli, Paul; Yarali, Ayse**

Timing-dependent valence reversal - a principle of reinforcement processing and its possible implications

Current Opinion in Behavioral Sciences - Amsterdam [u.a.]: Elsevier, Bd. 26.2019, S. 114-120;

[Imp.fact.: 3.422]

**Heil, Peter; Peterson, Adam J.**

Nelson's notch in the rate-level functions of auditory-nerve fibers might be caused by PIEZO2-mediated reverse-polarity currents in hair cells

Hearing research - Amsterdam [u.a.]: Elsevier Science, Volume 381 (2019), article 107783;

[Imp.fact.: 2.952]

**Huang, Ying; Heil, Peter; Brosch, Michael**

Associations between sounds and actions in early auditory cortex of nonhuman primates

eLife - Cambridge: eLife Sciences Publications, Volume 8 (2019), article e43281, insgesamt 22 Seiten;

**Ivens, Sebastian; Çalkan, Gürsel; Papageorgiou, Ismini; Cesetti, Tiziana; Malich, Ansgar; Kann, Oliver; Heinemann, Uwe; Stork, Oliver; Albrecht, Anne**

Persistent increase in ventral hippocampal long-term potentiation by juvenile stress - a role for astrocytic glutamine synthetase

Glia - Bognor Regis [u.a.]: Wiley-Liss, Bd. 67.2019, 12, S. 2279-2293;

[Imp.fact.: 5.829]

**Klepsch, Oliver; Namer, Lise Sarah; Köhler, Nadine; Kaempfer, Raymond; Dittrich, Anna; Schaper, Fred**

Intragenic regulation of SOCS3 isoforms

Cell communication and signaling - London: Biomed Central, Volume 17 (2019), 1, Artikel 70, insgesamt 15 Seiten;

[Imp.fact.: 5.111]

**Krzyanowska, Marta; Steiner, Johann; Pieniak, Dorota; Karnecki, Karol; Kaliszan, Micha; Wiergowski, Marek; Rbaa, Krzysztof; Brisch, Ralf; Braun, Anna Katharina; Jankowski, Zbigniew; Kosmowska, Monika; Chociej, Joanna; Gos, Tomasz**

Ribosomal DNA transcription in prefrontal pyramidal neurons is decreased in suicide

European archives of psychiatry and clinical neuroscience - Darmstadt: Steinkopff, Bd. 269.2019, insges. 9 S.; [Online first]

[Imp.fact.: 3.192]

**König, Christian; Khalili, Afshin; Niewalda, Thomas; Gao, Shiqiang; Gerber, Bertram**

An optogenetic analogue of second-order reinforcement in *Drosophila*

Biology letters - London: Soc., Bd. 15.2019, 7, S. 1-5;

[Imp.fact.: 3.323]

**Large, Imogen; Pellicano, Elizabeth; Mojzisch, Andreas; Krug, Kristine**

Developmental trajectory of social influence integration into perceptual decisions in children

Proceedings of the National Academy of Sciences of the United States of America - Washington, DC: National Acad. of Sciences, Bd. 116.2019, 7, S. 2713-2722;

**Macharadze, Tamar; Budinger, Eike; Brosch, Michael; Scheich, Henning; Ohl, Frank W.; Henschke, Julia**

Early sensory loss alters the dendritic branching and spine density of supragranular pyramidal neurons in rodent primary sensory cortices

Frontiers in neural circuits - Lausanne: Frontiers Research Foundation, Bd. 13.2019, Art.-Nr. 61, insges. 22 S.;

[Imp.fact.: 3.101]

**Martínez-Rodríguez, Elena; Martín-Sánchez, Ana; Coviello, Simona; Foiani, Cristina; Kul, Emre; Stork, Oliver; Martínez-García, Fernando; Nacher, Juan; Lanuza, Enrique; Santos, Mónica; Agustín-Pavón, Carmen**

Lack of MeCP2 leads to region-specific increase of doublecortin in the olfactory system

Brain structure & function - Berlin: Springer, Bd. 224.2019, 4, S. 1647-1658;

[Imp.fact.: 3.622]

**Reeh, Heike; Rudolph, Nadine; Billing, Ulrike; Christen, Henrike; Streif, Stefan; Bullinger, Eric; Schliemann-Bullinger, Monica; Findeisen, Rolf; Schaper, Fred; Huber, Heinrich; Dittrich, Anna**

Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor  $\alpha$  to gp130 expression - fusing experimental insights and dynamic modelling

Cell communication and signaling - London: Biomed Central, Vol. 17.2019, 1, Art. 17:46, insgesamt 21 Seiten;

[Imp.fact.: 5.111]

**Rätzel, Victoria; Werthmann, Britta; Haas, Markus; Strube, Jan; Marwan, Wolfgang**

Disentangling a complex response in cell reprogramming and probing the waddington landscape by automatic construction of petri nets

bioRxiv beta - Cold Spring Harbor: Cold Spring Harbor Laboratory, NY, S. 38, 2019;

**Schicknick, Horst; Henschke, Julia; Budinger, Eike; Ohl, Frank W.; Gundelfinger, Eckart D.; Tischmeyer, Wolfgang**

$\beta$ -adrenergic modulation of discrimination learning and memory in the auditory cortex

European journal of neuroscience: EJM - Oxford [u.a.]: Wiley, Bd. 50.2019, 7, S. 3141-3163;

[Imp.fact.: 2.784]

**Thiele, Sven; Heise, Sandra; Hessenkemper, Wiebke; Bongartz, Hannes; Fensky, Melissa; Schaper, Fred; Klamt, Steffen**

Designing optimal experiments to discriminate interaction graph models

IEEE ACM transactions on computational biology and bioinformatics - New York, NY: IEEE, Bd. 16.2019, 3, S. 925-935;

[Imp.fact.: 2.896]

**Thum, Andreas S.; Gerber, Bertram**

Connectomics and function of a memory network - the mushroom body of larval *Drosophila*  
Current opinion in neurobiology - Philadelphia, Pa.: Current Biology, Bd. 54.2019, S. 146-154;  
[Imp.fact.: 6.014]

**Toshima, Naoko; Kantar Weigelt, Melisa; Weiglein, Alie; Boetzel, Fabian A.; Gerber, Bertram**

An amino-acid mixture can be both rewarding and punishing to larval *Drosophila*  
The journal of experimental biology - Cambridge, 2019, article jeb209486;  
[Online first]

**Verhagen, Lennart; Gallea, Cécile; Folloni, Davide; Constans, Charlotte; Jensen, Daria E. A.; Ahnine, Harry; Roumazielles, Léa; Santin, Mathieu; Ahmed, Bashir; Lehericy, Stéphane; Klein-Flügge, Miriam C.; Krug, Kristine; Mars, Rogier B.; Rushworth, Matthew F. S.; Pouget, Pierre; Aubry, Jean-François; Sallet, Jerome**

Offline impact of transcranial focused ultrasound on cortical activation in primates  
eLife - Cambridge: eLife Sciences Publications, Volume 8 (2019), article e40541, insgesamt 28 Seiten;  
[Imp.fact.: 7.551]

**Wasmuht, D. F.; Parker, A. J.; Krug, Kristine**

Interneuronal correlations at longer time scales predict decision signals for bistable structure-from-motion perception  
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Volume 9 (2019), article number 11449, insgesamt 15 Seiten;  
[Imp.fact.: 4.011]

**Weiglein, Alie; Gerstner, Florian; Mancini, Nino; Schleyer, Michael; Gerber, Bertram**

One-trial learning in larval *Drosophila*  
Learning & memory - Plainview, NY: Cold Spring Harbor Laboratory Press, Bd. 26.2019, 4, S. 109-120;  
[Imp.fact.: 2.373]

**Çalkan, Gürsel; Raza, Syed Ahsan; Demiray, Yunus E.; Kul, Emre; Sandhu, Kiran V.; Stork, Oliver**

Depletion of dietary phytoestrogens reduces hippocampal plasticity and contextual fear memory stability in adult male mouse  
Nutritional neuroscience - Abingdon, Oxon: Routledge, Taylor and Francis Group, 2019;  
[Online first]

## BEGUTACHTETE BUCHBEITRÄGE

**Bock, Jörg**

Neurobiologische und epigenetische Auswirkungen perinataler Stresserfahrungen auf die Entwicklung von Gehirn und Verhalten  
Familien unter Hoch-Stress - Stuttgart: Klett-Cotta, S. 47-72, 2019

**Rathi, Sanchit; Deckert, Martin; Lippert, Michael; Ohl, Frank W.; Brosch, Michael; Schmidt, Bertram**

Low cost artificial cortex phantom for the early-stage evaluation of microelectrode arrays  
14. Magdeburger Maschinenbau-Tage 2019 - Magdeburger Ingenieurtag - 24. und 25. September 2019 : Tagungsband - Magdeburg: Otto von Guericke Universität Magdeburg, Fakultät Maschinenbau, Institut für Mobile Systeme - Lehrstuhl Mechatronik, S. 151-155;  
[Tagung: 14 MMT 2019, 24. und 25. September 2019, Magdeburg]



## HERAUSGEBERSCHAFTEN

**Pantazopoulos, Harry; Gamble, Karen; Stork, Oliver; Amir, Shimon**

Circadian rhythms in regulation of brain processes and role in psychiatric disorders

New York, NY: Hindawi, 2018, 1 Online-Ressource;

[Special issue published in NeuralPlasticity]

**Yassa, Michael; Wolbers, Thomas; Okuno, Hiroyuki; Hedge, Ashok; Giese, Karl-Peter; Stork, Oliver**

Research topic "learning and memory"

Lausanne: Frontiers Research Foundation, 2019, 1 Online-Ressource

## DISSERTATIONEN

**Hilgardt, Christiane; Marwan, Wolfgang [GutachterIn]**

Biologische Variabilität bei der Musterbildung von 'Dictyostelium discoideum'

Magdeburg Univ., Fak. für Naturwiss., Diss., 2010, X, 168 S., Ill., graph. Darst., 30 cm

**Madencioglu Kul, Deniz Ashan; Stork, Oliver [AkademischeR BetreuerIn]**

Roles of the Hippo pathway kinase Ndr2 in neural development and behavior

Magdeburg, 2019, xii, 87 Blätter, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Blatt 76-86]

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## 1. LEITUNG

Prof. Dr. rer. nat. habil. Rüdiger Goldhahn  
Prof. Dr. rer. nat. habil. Jürgen Christen  
Prof. Dr. rer. nat. habil. Oliver Speck  
Prof. Dr. rer. nat. habil. Ralf Stannarius (Leiter)  
Prof. Dr. rer. nat. habil. André Strittmatter  
Prof. Dr. rer. nat. Claus-Dieter Ohl  
Prof. Dr. rer. nat. habil. Jan Wiersig (stellv. Leiter)  
Prof. Dr. rer. nat. Klaus Kassner  
Dr. rer. nat. Hartmut Witte

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Aime, S.; Alberich, A.; Almen, A.; Arthurs, O. J.; Barthel, H.; Clément, O.; Crean, M.; Souza, N.; Demuth, F.; Dewey, V.; Dousset, V.; Frangi, A.; Garos, C.; Golay, X.; Gordebeke, P.; Günther, M.; Hahn, H.; Hierath, M.; Hoeschen, Christoph; Hunink, M.; Kauczor, H. U.; Krestin, G.; Krischak, K.; Langs, G.; Liu, Y.; Marti-Bonmati, L.; Matos, C.; Mayerhofer-Sebera, U.; McNulty, J.; Muylle, K.; Neeman, M.; Niessen, W.; Nikolaou, K.; Pereira, P.; Persson, A.; Pifferi, A.; Riklund, K.; Rockall, A.; Rosendahl, K.; Sardanelli, F.; Sourbron, S.; Speck, Oliver; Valentini, V.; Zolda, P.**

Strategic research agenda for biomedical imaging

Insights into imaging - Berlin : Springer - Volume 10 (2019), article number 7, insgesamt 14 Seiten

**Alaasar, Mohamed; Prehm, Marko; Belau, Sebastian; Sebastián, Nerea; Kurachkina, Marharyta; Eremin, Alexey; Chen, Changlong; Liu, Feng; Tschierske, Carsten**

Polar order, mirror symmetry breaking, and photoswitching of chirality and polarity in functional bentcore mesogens

Chemistry - a European journal - Weinheim : Wiley-VCH, Bd. 25.2019, 25, S. 6362-6377

[Imp.fact.: 5.16]

**Badel, Manuel; Wiersig, Jan**

Corrected perturbation theory for transverse-electric whispering-gallery modes in deformed microdisks

Physical review - Woodbury, NY: Inst., Volume 99 (2019), 6, Artikel 023833, insgesamt 11 Seiten;

[Imp.fact.: 2.909]

**Baron, Elias; Goldhahn, Rüdiger; Deppe, Michael; As, Donat J.; Feneberg, Martin**

Influence of the free-electron concentration on the optical properties of zincblende GaN up to  $1 \times 10^{20} \text{ cm}^{-3}$

Physical review materials - College Park, MD: APS, Volume 3 (2019), Issue 10, Article 104603, insgesamt 11 Seiten;

**Baron, Elias; Goldhahn, Rüdiger; Deppe, Michael; As, Donat J.; Feneberg, Martin**

Photoluminescence line shape analysis of highly n-type doped zincblende GaN

Physica status solidi / B - Weinheim: Wiley-VCH, 2019, article 1900522, insgesamt 5 Seiten;

**Berron, David; Cardenas-Blanco, Arturo; Bittner, Daniel Markus; Metzger, Coraline Danielle; Spottke, Annika; Heneka, Michael Thomas; Fliessbach, Klaus; Schneider, Anja; Teipel, Stefan; Wagner, Michael; Speck, Oliver; Jessen, Frank; Düzel, Emrah**

Higher CSF tau levels are related to hippocampal hyperactivity and object mnemonic discrimination in older adults

The journal of neuroscience - Washington, DC: Soc., Bd. 39.2019, 44, S. 8788-8797;

[Imp.fact.: 6.074]

**Besendörfer, S.; Meissner, E.; Lesnik, A.; Friedrich, J.; Dadgar, Armin; Erlbacher, T.**

Methodology for the investigation of threading dislocations as a source of vertical leakage in AlGaIn/GaN-HEMT heterostructures for power devices

Journal of applied physics - Melville, NY: American Inst. of Physics, Volume 125, issue 9 (2019), article 095704;

[Imp.fact.: 2.328]

**Betts, Matthew J.; Kirilina, Evgeniya; Otaduy, Maria C. G.; Ivanov, Dimo; Acosta-Cabronero, Julio; Callaghan, Martina F.; Lambert, Christian; Cardenas-Blanco, Arturo; Pine, Kerrin; Passamonti, Luca; Loane, Clare; Keuken, Mac C.; Trujillo, Paula; Lüsebrink, Falk; Mattern, Hendrik; Liu, Kathy Y.; Priovoulos, Nikos; Fliessbach, Klaus; Dahl, Martin J.; Maaß, Anne; Madelung, Christopher F.; Meder, David; Ehrenberg, Alexander J.; Speck, Oliver; Weiskopf, Nikolaus; Dolan, Raymond; Inglis, Ben; Tosun, Duygu; Morawski, Markus; Zucca, Fabio A.; Siebner, Hartwig Roman; Mather, Mara; Uludag, Kamil; Heinsen, Helmut; Poser, Benedikt A.; Howard, Robert; Zecca, Luigi; Rowe, James B.; Grinberg, Lea T.; Jacobs, Heidi; Düzel, Emrah; Hämmerer, Dorothea**

Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases

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## 1. LEITUNG

Prof. Dr. Markus Ullsperger

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Ambroziak, Klaudia B.; Azañón, Elena; Longo, Matthew R.**

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