



**NAT**

FAKULTÄT FÜR  
NATURWISSENSCHAFTEN

# Publikationsbericht 2021

Fakultät für Naturwissenschaften

# FAKULTÄT FÜR NATURWISSENSCHAFTEN

## 1. LEITUNG

Dekan

Prof. Dr. rer. nat. habil. Oliver Speck

Prodekan

Prof. Dr. med. Markus Ullsperger (bis 30.09.2020); Prof. Dr. rer. nat. habil. Jan Wiersig (ab 01.10.2020)

Studiendekan

Prof. Dr. rer. nat. Fred Schaper

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Myga, Kasia A.; Kühn, Esther; Azanon, Elena**

Autosuggestion - a cognitive process that empowers your brain?

Experimental brain research - Berlin: Springer, 1966, Bd. 239 (2021), insges. 14 S.;

[Imp.fact.: 1.972]

### ABSTRACTS

**Aruci, Merita; Dünnwald, Max; Schreiber, Frank; Sciarra, Alessandro; Maass, Anne; Schreiber, Stefanie; Oeltze-Jafra, Steffen**

Challenging cases for WMH segmentation comparatively processed by seven automated methods

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S40-41;

[Imp.fact.: 3.649]

**Mittenentzwei, Sarah; Sciarra, Alessandro; Lüsebrink-Rindsland, Jann Falk Silvester; Aruci, Merita; Ulbrich, Philipp; Schreiber, Frank; Lemke, Andreas; Meuschke, Monique; Preim, Bernhard; Schreiber, Stefanie; Oeltze-Jafra, Steffen**

Visual analysis of brain lesion load in patients with cerebral small vessel disease

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S12;

[Imp.fact.: 3.649]

### DISSERTATIONEN

**Al-Nosairy, Khaldoon O.; Hoffmann, Michael [AkademischeR BetreuerIn]**

Structure and function in glaucoma - OCT/A and ERG investigations

Magdeburg, 2021, X, 80 Seiten, Illustrationen, Diagramme, 30 cm

**Arboit, Alberto; Stork, Oliver [AkademischeR BetreuerIn]**

Involvement of TRPC4 and TRPC5 channels in persistent firing in the hippocampus and in the medial entorhinal cortex

Magdeburg, 2021, 212 Blätter, Illustrationen, Diagramme, 30 cm

**Böning, Martha A. L.**

Elucidating the role of the adhesion and degranulation-promoting adaptor protein (ADAP) in innate immune cells during *Listeria monocytogenes* infection in mice

Magdeburg, 2021, 1 Online-Ressource (XV, 154 Seiten, 10,81 MB), Illustrationen;

**Demiray, Yunus Emre; Stork, Oliver [AkademischeR BetreuerIn]**

NDR2 and filamin A as modulators of integrin activation during dendritic growth

Magdeburg, 2021, xi, 143 Blätter, Illustrationen, Diagramme, 30 cm

**Garad, Machhindra; Leßmann, Volkmar [AkademischeR BetreuerIn]**

Spike timing-dependent plasticity and basal synaptic transmission characterization at hippocampal Schaffer collateral-CA1 synapses of adult APP/PS1 Alzheimer's disease mice  
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (XV, 100 Blätter, 2,91 MB);

**Habibpoumoghadam, Atefeh; Stannarius, Ralf [AkademischeR BetreuerIn]**

Electro-optically induced responses and diffractive effects in liquid crystal cells - investigating experiments & simulations  
Magdeburg, 2021, xviii, 182 Seiten, Illustrationen, Diagramme, 30 cm

**Hauser, Andreas; Verhey, Jesko L. [AkademischeR BetreuerIn]**

Computernumerische Simulation der Elektrodynamik mithilfe der Gitter-Boltzmann-Methode und Anwendung auf die Stimulation durch ein Cochlea-Implantat  
Magdeburg, 2021, V, 116 Seiten, Illustrationen, Diagramme, 30 cm

**Heuer, Franziska; Hoffmann, Werner [AkademischeR BetreuerIn]**

TFF2 (Trefoil Factory Family 2) im Magen von Mensch und Schwein - Charakterisierung der Bindung des Peptids TFF2 an den Mukus  
Magdeburg, 2021, 146 Blätter, Illustrationen, Diagramme, 30 cm

**Klein, Tilmann A.; Ullsperger, Markus [AkademischeR BetreuerIn]; Noesselt, Tömme [AkademischeR BetreuerIn]**

Variationen der menschlichen Handlungsüberwachung - aufgabenbezogene, subjektseitige, externe und klinische Einflüsse  
Magdeburg, 2021, 1 Band (verschiedene Seitenzählungen), Illustrationen, Diagramme, 30 cm

**Kołodziejczyk, Małgorzata Helena; Fendt, Markus [AkademischeR BetreuerIn]**

Roles of neuropeptide S receptor and orexin in mouse models of anxiety disorders and trauma- and stressor-related disorders  
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (99 Seiten, 12,62 MB), Illustrationen;

**Kreutzmann, Judith C.; Fendt, Markus [AkademischeR BetreuerIn]**

Behavioral and neural characterization of safety learning  
Magdeburg, 2021, 169 Seiten, Illustrationen, Diagramme, 30 cm

**Melcher, Boris; Wiersig, Jan [AkademischeR BetreuerIn]**

Maximum-entropy method applied to micro- and nanolasers  
Magdeburg, 2021, vi, 117 Seiten, Illustrationen, Diagramme, 30 cm

**Missaoui, Amine; Stannarius, Ralf [AkademischeR BetreuerIn]**

Dynamics of topological defects in freely floating smectic liquid crystal films and bubbles  
Magdeburg, 2021, xvii, 173 Seiten, Illustrationen, Diagramme, 30 cm

**Pina-Fernández, Eneko**

The role of Piccolo and Bassoon in the regulation of voltage-gated calcium channels at presynaptic neurotransmitter release sites  
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (IX, 94 Blätter, 4,75 MB), Illustrationen;

**Redavide, Elisa; Albrecht, Anne [AkademischeR BetreuerIn]**

NPY effect on synapses via autophagy - dynamic reorganization of GluA1  
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (162 Blätter, 5,04 MB), Illustrationen, Diagramme;

**Rosentreter, Tanja; Hoeschen, Christoph [AkademischeR BetreuerIn]**

X-ray fluorescence imaging - experimental and numerical analysis of a crystal based concept  
Magdeburg, 2021, x, 147 Seiten, Illustrationen, Diagramme, 30 cm

**Schreier, Sarah**

Untersuchung zur Transmission, Virusverbreitung und Pathogenität der Zecken-übertragenen Flaviviren Tick-borne encephalitis Virus und Langat Virus in Mäusen  
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (82 Seiten), Tabelle, Diagramme;

**Tawfik, Mohamed; Sabel, Bernhard A. [AkademischeR BetreuerIn]**

Nanoparticles delivery to the central nervous system in-vivo - PVP nanoparticles for brain drug delivery and neuroprotection with siRNA-caspase-3

Magdeburg, 2021, 104 Blätter, Illustrationen, Diagramme, 30 cm

**Zempeltzi, Maria; Happel, Max F. K. [AkademischeR BetreuerIn]**

Task rule and choice are reflected by layer-specific processing in rodent auditory cortical microcircuits

Magdeburg, 2021, 127 Seiten, Illustrationen, Diagramme, 30 cm

# INSTITUT FÜR BIOLOGIE

## 1. LEITUNG

Prof. Jochen Braun, Ph.D.

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Albrecht, Anne; Segal, Menahem; Stork, Oliver**

Allostatic gene regulation of inhibitory synaptic factors in the rat ventral hippocampus in a juvenile/adult stress model of psychopathology

European journal of neuroscience: EJM - Oxford [u.a.]: Wiley, 1989, Bd. 53 (2021), insges. 12 S., 2020;  
[Imp.fact.: 3.115]

**Annamneedi, Anil; Angel, Miguel; Gundelfinger, Eckart D.; Stork, Oliver; Çalışkan, Gürsel**

The presynaptic scaffold protein bassoon in forebrain excitatory neurons mediates hippocampal circuit maturation - potential involvement of TrkB signalling

International journal of molecular sciences - Basel: Molecular Diversity Preservation International, 2000, Bd. 22 (2021), 15, insges. 15 S.;  
[Imp.fact.: 5.923]

**Bongartz, Hannes; SeiB, Elena Anne; Bock, Jörg; Schaper, Fred**

Glucocorticoids attenuate interleukin6-induced cFos and Egr1 expression and impair neuriteogenesis in PC12 cells

Journal of neurochemistry: official journal of the International Society for Neurochemistry ; JNC - Oxford: Wiley-Blackwell . - 2021;  
[Online first]  
[Imp.fact.: 4.066]

**Brosch, Marcel; Vlasenko, Alisa; Ohl, Frank W.; Lippert, Michael T.**

TetrODrive - an open-source microdrive for combined electrophysiology and optophysiology

Journal of neural engineering - Bristol: Institute of Physics Publishing, Bd. 18 (2021), 4, insges. 15 S.;  
[Imp.fact.: 5.379]

**Cao, Robin; Pastukhov, Alexander; Aleshin, Stepan; Mattia, Maurizio; Braun, Jochen**

Binocular rivalry reveals an out-of-equilibrium neural dynamics suited for decision-making

eLife - Cambridge: eLife Sciences Publications, Bd. 10 (2021), insges. 42 S.;  
[Imp.fact.: 8.14]

**De Sousa, Carine; Gaillard, Corentin; Di Bello, Fabio; Ben Hadj Hassen, Sameh; Ben Hamed, Suliann**

Behavioral validation of novel high resolution attention decoding method from multi-units & local field potentials

NeuroImage - Orlando, Fla.: Academic Press, Bd. 231 (2021), insges. 10 S.;

[Imp.fact.: 6.556]

**Derbis, Magdalena; Kul, Emre; Niewiadomska, Daria; Sekrecki, Michał; Piasecka, Agnieszka; Taylor, Katarzyna; Hukema, Renate K.; Stork, Oliver; Sobczak, Krzysztof**

Short antisense oligonucleotides alleviate the pleiotropic toxicity of RNA harboring expanded CGG repeats

Nature Communications - [London]: Nature Publishing Group UK, Bd. 12 (2021), insges. 17 S.;

[Imp.fact.: 14.919]

**Di Bello, Fabio; Ben Hadj Hassen, Sameh; Astrand, Elaine; Ben Hamed, Suliann**

Prefrontal Control of Proactive and Reactive Mechanisms of Visual Suppression

Cerebral cortex - Oxford: Oxford Univ. Press . - 2021, insges. 17 S.;

[Imp.fact.: 5.357]

**Fiebelkow, Jessica; Guendel, André; Guendel, Beate; Mehwald, Nora; Jetka, Tomasz; Komorowski, Michal; Waldherr, Steffen; Schaper, Fred; Dittrich, Anna**

The tyrosine phosphatase SHP2 increases robustness and information transfer within IL-6-induced JAK/STAT signalling

Cell communication and signaling - London: Biomed Central, Bd. 19 (2021), 1, insges. 19 S.;

[Imp.fact.: 5.712]

**Ip, I. Betina; Emir, Uzay E.; Lunghi, Claudia; Parker, Andrew; Bridge, Holly**

GABAergic inhibition in the human visual cortex relates to eye dominance

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 11 (2021), 1, insges. 11 S.;

[Imp.fact.: 4.379]

**Jeschke, Marcus; Happel, Max F. K.; Tziridis, Konstantin; Krauss, Patrick; Schilling, Achim; Schulze, Holger; Ohl, Frank W.**

Acute and long-term circuit-level effects in the auditory cortex after sound trauma

Frontiers in neuroscience - Lausanne: Frontiers Research Foundation, Bd. 14 (2021), insges. 14 S.;

[Imp.fact.: 4.677]

**Kakaei, Ehsan; Aleshin, Stepan; Braun, Jochen**

Visual object recognition is facilitated by temporal community structure

Learning & memory - Plainview, NY: Cold Spring Harbor Laboratory Press, Bd. 28 (2021), 5, S. 148-152;

[Imp.fact.: 2.359]

**Karnecki, Karol; Steiner, Johann; Guest, Paul C.; Krzyżanowska, Marta; Mańkowski, Dobrosław; Gos, Tomasz; Kaliszan, Michał**

Epidemiology of suicide in the Tricity metropolitan area in northern Poland 1980-2009 - evidence of influence by political and socioeconomic changes

Forensic science international. Reports - [Amsterdam]: Elsevier ScienceDirect, 2019, Bd. 3 (2021), insges. 7 S.;

**Kobler, Oliver; Weiglein, Aliće; Hartung, Kathrin; Chen, Yi-chun; Gerber, Bertram; Thomas, Ulrich**

A quick and versatile protocol for the 3D visualization of transgene expression across the whole body of larval *Drosophila*

Journal of neurogenetics - Abingdon: Taylor & Francis Group, 1983, Bd. 35 (2021), 3, S. 306-319;

[Imp.fact.: 1.25]

**Kozma, Robert; Hu, Sanqing; Sokolov, Yury; Wanger, Tim; Schulz, Andreas L.; Woldeit, Marie L.; Gonçalves, Ana I.; Ruzinkó, Miklós; Ohl, Frank W.**

State transitions during discrimination learning in the gerbil auditory cortex analyzed by network causality metrics

Frontiers in systems neuroscience - Lausanne: Frontiers Research Foundation, Bd. 15 (2021), insges. 14 S.;

[Imp.fact.: 3.289]

**Krzyżanowska, Marta; Rębała, Krzysztof; Steiner, Johann; Kaliszan, Michał; Pieśniak, Dorota; Karnecki, Karol; Wiergowski, Marek; Brisch, Ralf; Braun, Anna Katharina; Jankowski, Zbigniew; Kosmowska, Monika; Chociej, Joanna; Gos, Tomasz**

Reduced ribosomal DNA transcription in the prefrontal cortex of suicide victims - consistence of new molecular RT-qPCR findings with previous morphometric data from AgNOR-stained pyramidal neurons

European archives of psychiatry and clinical neuroscience - Darmstadt: Steinkopff, 1868, Bd. 271 (2021), 3, S. 567-576;

[Imp.fact.: 5.27]

**Madencioglu, Deniz A.; Çalışkan, Gürsel; Yuanxiang, Pingan; Rehberg, Kati; Demiray, Yunus E.; Kul, Emre Ufuk; Engler, Alexander; Hayani, Hussam; Bergado Acosta, Jorge R.; Kummer, Anne; Müller, Iris; Song, Inseon; Dityatev, Alexander; Kähne, Thilo; Kreutz, Michael R.; Stork, Oliver**

Transgenic modeling of *Ndr2* gene amplification reveals disturbance of hippocampus circuitry and function

iScience - Amsterdam: Elsevier, 2018, Bd. 24 (2021), 8, insges. 23 S.;

[Imp.fact.: 5.458]

**Marquardt, Pauline; Werthmann, Britta; Rätzel, Viktoria; Haas, Markus; Marwan, Wolfgang**

Quantifying 35 transcripts in a single tube - model-based calibration of the GeXP multiplex RT-PCR assay  
BMC biotechnology - London: BioMed Central, 2001, Bd. 21 (2021), insges. 15 S.;  
[Imp.fact.: 2.563]

**Martens, Louise; Herrmann, Luisa; Colic, Lejla; Li, Meng; Richter, Anni; Behnisch, Gusalija; Stork, Oliver; Seidenbecher, Constanze; Schott, Björn Hendrik; Walter, Martin**

Met carriers of the BDNF Val66Met polymorphism show reduced Glx/NAA in the pregenual ACC in two independent cohorts  
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, 2011, Bd. 11 (2021), insges. 12 S.;  
[Imp.fact.: 4.379]

**Mulas, Floriana; Wang, Xu; Song, Shanshan; Nishanth, Gopala; Yi, Wenjing; Brunn, Anna Gertrud; Larsen, Pia-Katharina; Isermann, Berend; Kalinke, Ulrich; Barragan, Antonio; Naumann, Michael; Deckert, Martina; Schlüter, Dirk**

The deubiquitinase OTUB1 augments NF-[kappa]B-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13  
Cellular & molecular immunology - London [u.a.]: Nature Publ. Group, 2004, Bd. 18 (2021), 6, S. 1512-1527;  
[Imp.fact.: 11.53]

**Parker, Andrew J.**

Recognition for vision  
Empirical software engineering - Dordrecht [u.a.]: Springer Science + Business Media B.V., Bd. 3 (2019), 4, insges. 2 S., 2021;

**Pretschner, Anna; Pabel, Sophie; Haas, Markus; Heiner, Monika; Marwan, Wolfgang**

Regulatory dynamics of cell differentiation revealed by true time series from multinucleate single cells  
Frontiers in genetics - Lausanne: Frontiers Media, Bd. 11 (2021), insges. 17 S.;  
[Imp.fact.: 4.599]

**Saldeitis, Katja; Jeschke, Marcus; Budinger, Eike; Ohl, Frank W.; Happel, Max**

Laser-induced apoptosis of corticothalamic neurons in layer VI of auditory cortex impact on cortical frequency processing  
Frontiers in neural circuits - Lausanne: Frontiers Research Foundation, Bd. 15 (2021), insges. 15 S.;  
[Imp.fact.: 3.492]

**Schilling, Malte; Melnik, Andrew; Ohl, Frank W.; Ritter, Helge J.; Hammer, Barbara**

Decentralized control and local information for robust and adaptive decentralized Deep Reinforcement Learning  
Neural networks - Amsterdam: Elsevier, Bd. 144 (2021), S. 699-725;  
[Imp.fact.: 8.05]

**Tang-Wright, K.; Smith, J. E. T.; Bridge, H.; Miller, K. L.; Dyrby, T. B.; Ahmed, B.; Reislev, N. L.; Sallet, J.; Parker, Andrew; Krug, Kristine**

Intra-areal visual topography in primate brains mapped with probabilistic tractography of diffusion-weighted imaging  
Cerebral cortex - Oxford: Oxford Univ. Press . - 2021, insges. 20 S.;  
[Imp.fact.: 5.357]

**Tripathi, Kuldeep; Demiray, Yunus Emre; Kliche, Stefanie; Jing, Liang; Hazra, Somoday; Hazra, Joyeeta Dutta; Richter-Levin, Gal; Stork, Oliver**

Reducing glutamic acid decarboxylase in the dorsal dentate gyrus attenuates juvenile stress induced emotional and cognitive deficits  
Neurobiology of Stress - Amsterdam [u.a.]: Elsevier, 2015, Bd. 15 (2021), insges. 12 S.;  
[Imp.fact.: 5.441]

**Ullsperger, Markus; Stork, Oliver**

To err is (not only) human - mechanisms of post-error attentional regulation illuminated in mice  
Neuron - [Cambridge, Mass.]: Cell Press, Bd. 109 (2021), 7, S. 1074-1076;  
[Imp.fact.: 17.173]

**Weiglein, Aliće; Thoener, Juliane; Feldbruegge, Irina; Warzog, Louisa; Mancini, Nino; Schleyer, Michael; Gerber, Bertram**

Aversive teaching signals from individual dopamine neurons in larval *Drosophila* show qualitative differences in their temporal 'fingerprint'

The journal of comparative neurology - New York, NY [u.a.]: Wiley-Liss, Bd. 529 (2021), 7, S. 1553-1570; [Imp.fact.: 3.215]

## DISSERTATIONEN

**Arboit, Alberto; Stork, Oliver [AkademischeR BetreuerIn]**

Involvement of TRPC4 and TRPC5 channels in persistent firing in the hippocampus and in the medial entorhinal cortex

Magdeburg, 2021, 212 Blätter, Illustrationen, Diagramme, 30 cm

**Demiray, Yunus Emre; Stork, Oliver [AkademischeR BetreuerIn]**

NDR2 and filamin A as modulators of integrin activation during dendritic growth

Magdeburg, 2021, xi, 143 Blätter, Illustrationen, Diagramme, 30 cm

**Kreutzmann, Judith C.; Fendt, Markus [AkademischeR BetreuerIn]**

Behavioral and neural characterization of safety learning

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**Zempeltzi, Maria; Happel, Max F. K. [AkademischeR BetreuerIn]**

Task rule and choice are reflected by layer-specific processing in rodent auditory cortical microcircuits

Magdeburg, 2021, 127 Seiten, Illustrationen, Diagramme, 30 cm



# INSTITUT FÜR PHYSIK

## 1. LEITUNG

Prof. Dr. rer. nat. habil. Rüdiger Goldhahn (Leiter)  
Prof. Dr. rer. nat. habil. Jan Wiersig (stellv. Leiter)  
Prof. Dr. rer. nat. habil. Jürgen Christen  
apl. Prof. Dr. rer. nat. habil. Alexei Eremin (ab 1.10.2021)  
Prof. Dr. rer. nat. Andreas Menzel  
Prof. Dr. rer. nat. Claus-Dieter Ohl  
Vertr.-Prof.in Dr. rer. nat. Bernadette Schorn (bis 28.2.2021)  
Prof. Dr. rer. nat. habil. Oliver Speck  
Prof. Dr. rer. nat. habil. Ralf Stannarius (bis 30.9.2021)  
Prof. Dr. rer. nat. habil. André Strittmatter  
Vertr.-Prof.in Dr. phil. Bianca Watzka (ab 1.10.2021)  
Dr. rer. nat. Gordon Schmidt (bis 30.4.2021)  
Dr. rer. nat. Hartmut Witte (ab 1.5.2021)

## 2. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Artús, Luis; Feneberg, Martin; Attacalite, Claudio; Edgar, James H.; Li, Jiahan; Goldhahn, Rüdiger; Cuscó, Ramon**

Ellipsometry study of hexagonal boron nitride using synchrotron radiation - transparency Window in the farUVC  
Advanced photonics research - Weinheim: Wiley-VCH, Bd. 2 (2021), 5;

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

Optical evidence of many-body effects in the zincblende  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  alloy system  
Journal of physics / D - Bristol: IOP Publ., Volume 54 (2021), issue 2, article 025101, 12 Seiten;  
[Imp.fact.: 3.169]

**Bruning, Myrthe A.; Ohl, Claus-Dieter; Marin, Alvaro**

Soft cavitation in colloidal droplets  
Soft matter - London: Royal Soc. of Chemistry, Bd. 17 (2021), 7, S. 1861-1872;  
[Imp.fact.: 3.679]

**Challa, Seshagiri Rao; Vega, Nahuel A.; Mueller, Nahuel A.; Kristukat, Christian; Debray, Mario E.; Witte, Hartmut; Dadgar, Armin; Strittmatter, André**

Understanding high-energy 75-MeV sulfur-ion irradiation-induced degradation in GaN-based heterostructures - the role of the GaN channel layer  
IEEE transactions on electron devices/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, Bd. 68 (2021), 1, S. 24-28;  
[Imp.fact.: 2.917]

**Daddi-Moussa-Ider, Abdallah; Sprenger, Alexander R.; Richter, Thomas; Löwen, Hartmut; Menzel, Andreas**

Steady azimuthal flow field induced by a rotating sphere near a rigid disk or inside a gap between two coaxially positioned rigid disks  
Physics of fluids: devoted to the publication of original theoretical, computational, and experimental contributions to the dynamics of gases, liquids, and complex or multiphase fluids - [S.I.]: American Institute of Physics, Bd. 33 (2021), 8;  
[Imp.fact.: 3.385]

**Deng, Hui; Lippi, Gian Luca; Mørk, Jesper; Wiersig, Jan; Reitzenstein, Stephan**

Physics and applications of high- $\beta$  micro- and nanolasers

Advanced optical materials - Weinheim: Wiley-VCH . - 2021, insges. 25 S.;

[Imp.fact.: 8.286]

**Dolganov, P. V.; Shuravin, N. S.; Dolganov, V. K.; Kats, E. I.; Stannarius, Ralf; Harth, Kirsten; Trittel, Torsten; Park, C. S.; MacLennan, J. E.**

Transient hexagonal structures in sheared emulsions of isotropic inclusions on smectic bubbles in microgravity conditions

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 11 (2021), 1, insges. 8 S.;

**Düzel, Emrah; Costagli, Mauro; Donatelli, Graziella; Speck, Oliver; Cosottini, Mirco**

Studying Alzheimer disease, Parkinson disease, and amyotrophic lateral sclerosis with 7-T magnetic resonance

European radiology experimental - [Cham]: Springer International Publishing, 2017, Bd. 5 (2021), insges. 17 S.;

**Farmani, Zohreh; Wang, Jing; Stannarius, Ralf; Bieberle, Martina; Barthel, Frank; Hampel, Uwe; Dijkstra, Joshua A.**

Improved evaluation of granular media flows using an X-ray scanning compatible cone-plate setup

Powders & Grains 2021 - 9th International Conference on Micromechanics on Granular Media: Buenos Aires (Virtual), Argentina, July 5, 13, 21, 29 and August 6, 2021/ Powders & Grains - Les Ulis: EDP Sciences; Aguirre, María Alejandra - Buenos Aires (Virtual), Argentina, July 5, 13, 21, 29 and August 6, 2021 . - 2021, insges. 4 S. - (EPJ web of conferences; volume 249);

**Feldl, Johannes; Feneberg, Martin; Papadogianni, Alexandra; Lähnemann, Jonas; Nagata, Takahiro; Bierwagen, Oliver; Goldhahn, Rüdiger; Ramsteiner, Manfred**

Bandgap widening and behavior of Raman-active phonon modes of cubic single-crystalline (In,Ga) 2O 3 alloy films

Applied physics letters - Melville, NY: American Inst. of Physics, Bd. 119 (2021), 4, insges. 6 S.;

[Imp.fact.: 3.791]

**Feneberg, Martin; Romero, Fátima; Goldhahn, Rüdiger; Wernicke, Tim; Reich, Christoph; Stellmach, Joachim; Mehnke, Frank; Knauer, Arne; Weyers, Markus; Kneissl, Michael**

Origin of defect luminescence in ultraviolet emitting AlGaIn diode structures

Applied physics letters - Melville, NY: American Inst. of Physics, Bd. 118 (2021), 20, insges. 6 S.;

[Imp.fact.: 3.597]

**Fischer, David; Stannarius, Ralf; Tell, Karsten; Yu, Peidong; Sperl, Matthias**

Force chains in crystalline and frustrated packing visualized by stress-birefringent spheres

Soft matter - London: Royal Soc. of Chemistry . - 2021;

[Imp.fact.: 3140.0]

**Gaidzik, Franziska; Pathiraja, Sahani; Saalfeld, Sylvia; Stucht, Daniel; Speck, Oliver; Thévenin, Dominique; Janiga, Gábor**

Hemodynamic data assimilation in a subject-specific circle of Willis geometry

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), 3, S. 643-651;

[Imp.fact.: 3.649]

**Gonzalez-Avila, Silvestre Roberto; Denner, Fabian; Ohl, Claus-Dieter**

The acoustic pressure generated by the cavitation bubble expansion and collapse near a rigid wall

Physics of fluids - [S.l.]: American Institute of Physics, Bd. 33 (2021), 3, insges. 23 S.;

[Imp.fact.: 3.521]

**Gutiérrez-Hernández, Ulisses J.; De Colle, Fabio; Ohl, Claus-Dieter; Quinto-Su, Pedro A.**

Transient time-delay focusing of shock waves in thin liquids

Journal of fluid mechanics - Cambridge [u.a.]: Cambridge Univ. Press, Volume 910 (2021), A27, insgesamt 14 Seiten;

[Imp.fact.: 3.137]

**Hildebrandt, R.; Sturm, C.; Wieneke, Matthias; Dadgar, Armin; Grundmann, M.**

Raman tensor determination of transparent uniaxial crystals and their thin films— $\alpha$ -plane GaN as exemplary case

Applied physics letters - Melville, NY: American Inst. of Physics, Bd. 119 (2021), insges. 6 S.;

[Imp.fact.: 3.791]

**Hurzmeier, Maleen; Watzka, Bianca; Hoyer, Christoph; Girwidz, Raimund; Ertl, Bernhard**

Lernergebnisse und individuelle Prozesse des Physik-Lernens mit auditiven und visuellen Hinweisen

Zeitschrift für pädagogische Psychologie - Göttingen: Hogrefe Verlag . - 2021, insges. 18 S.;

**Hähslér, Martin; Nádasi, Hajnalka; Feneberg, Martin; Marino, Sebastian; Giesselmann, Frank; Behrens, Silke; Eremin, Alexey B.**

Magnetic tilting in nematic liquid crystals driven by self-assembly

Advanced functional materials - Weinheim: Wiley-VCH . - 2021;

[Imp.fact.: 16.836]

**Hörich, Florian; Borgmann, Ralf; Bläsing, Jürgen; Schmidt, Gordon; Veit, Peter; Bertram, Frank; Christen, Jürgen; Strittmatter, André; Dadgar, Armin**

Demonstration of lateral epitaxial growth of AlN on Si (1 1 1) at low temperatures by pulsed reactive sputter epitaxy

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Prof. Dr. Markus Ullsperger

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## ABSTRACTS

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## DISSERTATIONEN

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Variationen der menschlichen Handlungsüberwachung - aufgabenbezogene, subjektseitige, externe und klinische Einflüsse

Magdeburg, 2021, 1 Band (verschiedene Seitenzählungen), Illustrationen, Diagramme, 30 cm