



NAT

FAKULTÄT FÜR
NATURWISSENSCHAFTEN

Publikationsbericht 2022

Fakultät für Naturwissenschaften

FAKULTÄT FÜR NATURWISSENSCHAFTEN

1. LEITUNG

Dekan

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

Prodekan

Prof. Dr. rer. nat. habil. Jan Wiersig

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. 240 (2022), 2, S. 381-394;

[Imp.fact.: 1.972]

Schürmann, Hannes; Schmidt, Gordon; Bertram, Frank; Berger, Christoph; Metzner, Sebastian; Veit, Peter; Dadgar, Armin; Strittmatter, André; Christen, Jürgen

Desorption induced formation of low-density GaN quantum dots - nanoscale correlation of structural and optical properties

Journal of physics / D - Bristol: IOP Publ., Bd. 55 (2022), 14, insges. 7 S.; <http://dx.doi.org/10.1088/1361-6463/ac40b9> 10.25673/89845

[Imp.fact.: 3.207]

Trittel, Torsten; Klopp, Christoph; Harth, Kirsten; Stannarius, Ralf

Stability and rupture of liquid crystal bridges under microgravity

Crystals - Basel: MDPI, 2011, Bd. 12 (2022), 8, insges. 16 S.;

[Imp.fact.: 2.67]

HABILITATIONEN

Dürschmid, Stefan; Hinrichs, Hermann [AkademischeR BetreuerIn]; Ostwald, Dirk [AkademischeR BetreuerIn]

Voraussetzungen und Variationen der Informationsintegration im menschlichen Gehirn - Verknüpfung von externen und internen Informationen zur Verbesserung der Mensch-Umwelt-Interaktion

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (1 Band (verschiedene Seitenzählungen, 15,75 MB)), Illustrationen;

DISSERTATIONEN

Bhattacharjee, Rituparna; Budinger, Eike [AkademischeR BetreuerIn]

Sequestration of infected red blood cells and reduced venous efflux precede excessive inflammatory responses in experimental cerebral malaria

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (VI, 92, VII-XVII, 4,73 MB), Illustrationen, Diagramme;

Borgmeyer, Maximilian Karl; Dieterich, Daniela C. [AkademischeR BetreuerIn]

Regulation of synaptic signaling following environmental enrichment and local secretory trafficking in neuronal dendrites

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (97 Seiten, 6,99 MB), Illustrationen, Diagramme;

Brosch, Marcel; Ohi, Frank [AkademischeR BetreuerIn]

Development and application of a transparent ECoG array and optrode microdrive for combined electrophysiology and optophysiology

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (X, 137, i Seiten), Illustrationen;

Cangalaya Lira, Carla Marcia; Dityatev, Alexander [AkademischeR BetreuerIn]

Microglia - neuron - extracellular matrix interactions in the adult mouse brain

Magdeburg, 2022, v, 126 Seiten, Illustrationen, Diagramme, 30 cm

Chaithongyot, Supattra; Naumann, Michael [AkademischeR BetreuerIn]

Function of STAMBPL1 in Helicobacter pylori-associated cell death

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (ii, 82 Blätter, 3,89 MB), Illustrationen;

De Boni, Carina; Wex, Thomas [AkademischeR BetreuerIn]

Wirkung einer Glutaminylzyklase-Hemmung auf Ausprägung einer experimentellen akuten Pankreatitis

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (iii, 99, I Seiten, 2,05 MB), Illustrationen;

Frick, Vivian; Matthies, Ellen [AkademischeR BetreuerIn]

An environmental psychology perspective on sufficiency-oriented consumption in online environments

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiii, 171 Seiten, 2,18 MB), Illustrationen;

Jorde, Ilka; Bruder, Dunja [AkademischeR BetreuerIn]

Modulation of allergic airway inflammation by Staphylococcus aureus enterotoxin B in a mouse model

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (XVI, 162 Seiten, 5,65 MB), Illustrationen;

Klopp, Christoph; Stannarius, Ralf [AkademischeR BetreuerIn]

Two-dimensional emulsions and colloids formed by liquid inclusions in free-standing smectic liquid crystal films

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (IV, 160 Seiten, 51,05 MB), Illustrationen;

Kästle, Matthias; Schraven, Burkhard [AkademischeR BetreuerIn]

Regulation of T cell activation and T cell development via the conserved tyrosine 192 within the SH2 domain of the Src family kinase p56Lck

Magdeburg, 2022, XV, 150 Seiten, Illustrationen, Diagramme, 31 cm

Lim, Michelle Chin Chia; Naumann, Michael [AkademischeR BetreuerIn]

Function of A20 in the regulation of Helicobacter pylori-induced alternative NK-B and caspase-8-dependent apoptotic cell death

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (XI, 90 Seiten, 3,51 MB), Illustrationen;

Ma, Jing

Layer-specific intracortical amplification shortens the lifetime of thalamocortical repetition suppression in primary auditory cortex

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (78 Seiten, 2,48 MB), Diagramme;

Mahnke, Liv; Sauvage, Magdalena [AkademischeR BetreuerIn]

Bridging further animal and human memory function using functional magnetic resonance imaging in awake rats and molecular imaging

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (IX, 135 Seiten, 3,5 MB), Illustrationen;

Mancini, Nino; Gerber, Bertram [AkademischeR BetreuerIn]

Changing expectations - cognitive flexibility and reward processing in larval Drosophila

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Matuszko, Gabriela Aleksandra; Dityatev, Alexander [AkademischeR BetreuerIn]

Extracellular matrix regulation of GABA-ergic interneurons and schizophrenia

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Meinshausen, Ann-Kathrin; Bertrand, Jessica [AkademischeR BetreuerIn]

Enhancing the diagnostic security of periprosthetic joint infections by using dithiothreitol, next-generation-sequencing and C9 as a new biomarker

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (110 Seiten, 2,37 MB), Illustrationen;

Pausder, Alexander; Bruder, Dunja [AkademischeR BetreuerIn]

Elucidating the roles of secretory immunoglobulins in asthma under homeostatic and infectious conditions

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiii, 124 Seiten, 8,92 MB), Illustrationen;

Preiß, Daniel

Structural and physiological observations in biomarker-defined primary progressive aphasia

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Ragge, Hubert; Hoffmann, Werner [AkademischeR BetreuerIn]

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Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (120 Seiten, 8,74 MB), Illustrationen;

Rose, Angela

Aging alters the Langkat Virus infection and pathogenesis in region-specific manner

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (85 Seiten, 4,7 MB), Illustrationen;

Seneza, Cleophae; Strittmatter, André [AkademischeR BetreuerIn]

Fabrication of electrically pumped vertical cavity surface emitters employing GaN:Mg/GaN:Ge tunnel junction contacts

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Shah, Aneri; Mertens, Peter Rene [AkademischeR BetreuerIn]

Role of YB-1 and NF- κ B in TNFR signaling pathways - deciding cell survival or death

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (IX, 89 Blätter, 3,31 MB), Illustrationen;

Voss, Linda; Reinhold, Dirk [AkademischeR BetreuerIn]

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Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (IX, 103 Seiten, 4,65 MB), Illustrationen;

Yi, Wenjing

Astrocyte-specific function of OTUD7B in experimental autoimmune encephalomyelitis

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (XIV, 85 Blätter, 2,67 MB), Illustrationen;

Zhang, Enqi; Sabel, Bernhard A. [AkademischeR BetreuerIn]

Kinetics of polymeric nanoparticulate carriers and cargo under physiological and pathological conditions in the retina

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (XIII, 126 Seiten, 4,31 MB), Illustrationen, Diagramme;

1. LEITUNG

Prof. Jochen Braun, Ph.D.

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Abellán-Álvaro, María; Stork, Oliver; Agustín-Pavón, Carmen; Santos, Mónica

MeCP2 haplodeficiency and early-life stress interaction on anxiety-like behavior in adolescent female mice
Journal of neurodevelopmental disorders - New York, NY: Springer, Bd. 13 (2022), 1, insges. 12 S.;
[Imp.fact.: 4.95]

Albrecht, Anne; Müller, Iris; Weiglein, Aliće; Pollali, Evangelia; Çalışkan, Gürsel; Stork, Oliver

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Neurobiology of Stress - Amsterdam [u.a.]: Elsevier, 2015, Bd. 20 (2022), insges. 11 S.;
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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 - Oxford [u.a.]: Wiley, 1989, Bd. 55 (2022), 9/10, S. 2142-2153;
<http://dx.doi.org/10.1111/ejn.15091> 10.25673/85178
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Amengual, J. L.; Di Bello, F.; Ben Hadj Hassen, Sameh; Ben Hamed, Suliann

Distractibility and impulsivity neural states are distinct from selective attention and modulate the implementation of spatial attention
Nature Communications - [London]: Nature Publishing Group UK, Bd. 13 (2022), 1, insges. 16 S.;

Baral, Shristi; Hosseini, Hassan; More, Kaushik; Fabrin, Thomaz M. C.; Braun, Jochen; Prigge, Matthias

Spike-dependent dynamic partitioning of the locus coeruleus network through noradrenergic volume release in a simulation of the nucleus core
Brain Sciences - Basel: MDPI AG, Bd. 12 (2022), 6, insges. 17 S.;
[Imp.fact.: 3.333]

Betina Ip, I.; Alvarez, Ivan; Tacon, Mike; Parker, Andrew J.; Bridge, Holly

MRI stereoscope - a miniature stereoscope for human neuroimaging
eNeuro - Washington, DC: Soc., Bd. 9 (2022), 1, insges. 11 S.;
[Imp.fact.: 4.081]

Bicakci, Ahmet Oguzhan; Sarkar, Mousumi; Chang, Yu-Hsin; Kahl, Evelyn; Ragazzi, Lorenzo; Moldes-Anaya, Angel; Fendt, Markus

Anxiolytic-like effects of the positive GABAB receptor modulator GS39783 correlate with mices individual basal anxiety and stress reactivity
Pharmaceuticals - Basel: MDPI, 2004, Bd. 15 (2022), 2, insges. 13 S.;
[Imp.fact.: 5.863]

Brandner, Sebastian; Schroeter, Sarah; Caliskan, Gürsel; Salar, Seda; Kobow, Katja; Coras, Roland; Blümcke, Ingmar; Hamer, Hajo; Schwarz, Michael; Buchfelder, Michael; Maslarova, Anna

Glucocorticoid modulation of synaptic plasticity in the human temporal cortex of epilepsy patients - does chronic stress contribute to memory impairment?
Epilepsia - Oxford [u.a.]: Wiley-Blackwell, Bd. 63 (2022), 1, S. 209-221;
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Caliskan, Gürsel; Demiray, Yunus Emre; Stork, Oliver

Comparison of three common inbred mouse strains reveals substantial differences in hippocampal GABAergic interneuron populations and in vitro network oscillations
Authorea - Hoboken: Authorea . - 2022, insges. 22 S.;

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Editorial: Functional aspects of mesoscopic brain oscillations - insights from in vivo and in vitro studies
Frontiers in neural circuits - Lausanne: Frontiers Research Foundation, Bd. 16 (2022), insges. 2 S. ;
[Imp.fact.: 3.342]

Kocamaz, Derya; Franzke, Caroline; Gröger, Nicole; Braun, Anna Katharina; Bock, Jörg

Early life stress-induced epigenetic programming of hippocampal NPY-Y2 receptor gene expression changes in response to adult stress
Frontiers in cellular neuroscience - Lausanne: Frontiers Research Foundation, 2007, Bd. 16 (2022), insges. 12 S.;

Köhler, Nadine; Wundrack, Nicole; Schulz, Svenja; Bartonitz, Florian; Schaper, Fred; Dittrich, Anna

Non-canonical STAT3 function reduces REDD1 transcription
The FEBS journal/ Vereinigung der Europäischen Biochemischen Gesellschaften - Oxford [u.a.]: Wiley-Blackwell . - 2022, insges. 34 S. ;
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König, Christian; Gerber, Bertram

Age-related decrease in appetitive associative memory in fruit flies
The journal of experimental biology - Cambridge: Company of Biologists, Bd. 225 (2022), 21;

Maurer, Viktor; Zarinwall, Ajmal; Wang, Zunhao; Wundrack, Stefan; Wundrack, Nicole; Ag Seleci, Didem; Helm, Vivien; Otenko, Daniil; Frank, Claudia; Schaper, Fred; Stosch, Rainer; Garnweitner, Georg

All-in-one superparamagnetic and SERS-active niosomes for dual-targeted in vitro detection of breast cancer cells
Sensors & Diagnostics/ Royal Society of Chemistry - London: RSC Publishing . - 2022, insges. 16 S.;

Raza, Syed Ahsan; Klinger, Katharina; Ángel, Miguel; Demiray, Yunus Emre; Caliskan, Gürsel; Kreutz, Michael R.; Stork, Oliver

Fear engrams and NPYergic circuit in the dorsal dentate gyrus determine remote fear memory generalization
bioRxiv beta - Cold Spring Harbor: Cold Spring Harbor Laboratory, NY . - 2022, insges. 28 S.;

Saldeitis, Katja; Jeschke, Marcus; Michalek, Annika; Henschke, Julia; Wetzel, Wolfram; Ohl, Frank W.; Budinger, Eike

Selective interruption of auditory interhemispheric cross talk impairs discrimination learning of frequency-modulated tone direction but not gap detection and discrimination
The journal of neuroscience - Washington, DC: Soc., Bd. 42 (2022), 10, S. 2025-2038;
[Imp.fact.: 6.709]

Schaper, Fred; Jetka, Tomasz; Dittrich, Anna

Decoding cellular communication - an information theoretic perspective on cytokine and endocrine signaling
Current opinion in endocrine and metabolic research - Amsterdam: Elsevier . - 2022;

Thoener, Juliane; Weiglein, Aliće; Gerber, Bertram; Schleyer, Michael

Optogenetically induced reward and frustration memory in larval *Drosophila melanogaster*
The journal of experimental biology - Cambridge: Company of Biologists, Bd. 225 (2022), 16;

Torres-Pérez, Jose Vicente; Martínez-Rodríguez, Elena; Forte, Anabel; Blanco-Gómez, Carlos; Stork, Oliver; Lanuza, Enrique; Santos, Mónica; Agustín-Pavón, Carmen

Early life stress exacerbates behavioural and neuronal alterations in adolescent male mice lacking methyl-CpG binding protein 2 (Mecp2)
Frontiers in behavioral neuroscience - Lausanne: Frontiers Research Foundation, Bd. 16 (2022), insges. 16 S. ;
[Imp.fact.: 3.617]

Ziman, Gergó; Aleshin, Stepan; Unoka, Zsolt; Braun, Jochen; Kovács, Ilona

Alternative female and male developmental trajectories in the dynamic balance of human visual perception
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 12 (2022), insges. 17 S.;
[Imp.fact.: 4.38]

Çalışkan, Gürsel; French, Timothy; Lacalle, Sara Enrile; Angel, Miguel; Steffen, Johannes; Heimesaat, Markus M.; Dunay, Ildikò Rita; Stork, Oliver

Antibiotic-induced gut dysbiosis leads to activation of microglia and impairment of cholinergic gamma oscillations in the hippocampus
Brain, behavior and immunity - Orlando, Fla. [u.a.]: Elsevier, Bd. 99 (2022), S. 203-217;
[Imp.fact.: 19.227]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Pollali, Evangelia; Hollnagel, Jan-Oliver; Caliskan, Gürsel

Hippocampal gamma-band oscillopathy in a mouse model of fragile X syndrome
bioRxiv beta - Cold Spring Harbor: Cold Spring Harbor Laboratory, NY . - 2021, insges. 26 S., 2022;

BEGUTACHTETE BUCHBEITRäge

Bock, Jörg

Neuronale Plastizität

Selbstmanagement ressourcenorientiert/ Storch - Bern: Hogrefe; Storch, Maja *1958-*. - 2022, S. 67-86

Heinrich, Peter C.; Haan, Serge; Hermanns, Heike M.; Müller-Newen, Gerhard; Schaper, Fred

Mediatoren

Löffler/Petrides Biochemie und Pathobiochemie - Berlin, Heidelberg: Springer Berlin Heidelberg; Heinrich, Peter C. . - 2022, S. 527-532;

Heinrich, Peter C.; Haan, Serge; Hermanns, Heike M.; Müller-Newen, Gerhard; Schaper, Fred

Rezeptoren und ihre Signaltransduktion

Löffler/Petrides Biochemie und Pathobiochemie - Berlin, Heidelberg: Springer Berlin Heidelberg; Heinrich, Peter C. . - 2022, S. 533-571;

Müller-Newen, Gerhard; Heinrich, Peter C.; Hermanns, Heike M.; Schaper, Fred

Prinzipien zellulärer Kommunikation

Löffler/Petrides Biochemie und Pathobiochemie - Berlin, Heidelberg: Springer Berlin Heidelberg; Heinrich, Peter C. . - 2022, S. 513-526;

ABSTRACTS

Angel, Miguel; Albrecht, Anne; Stork, Oliver

Trehalose increases TFEB and autophagic flux in the dorsal hippocampus, and produces changes in exploratory behaviour in old mice

FENS Forum - FENS, 2022 . - 2022;

Ben Hadj Hassan, Sameh; Gaillard, Corentin; Parker, Andrew; Krug, Kristine

Linear decoding applied to V5/MT neuronal activity on past trials predicts current sensory choices

FENS Forum - FENS, 2022 . - 2022;

Braun, Jochen; Levina, Anna; Giugliano, Michele

Robust decision-making - non-linear responsiveness can enhance stimulus information

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Filamin A modulates dendritic branching via integrin-akt axis and actin cytoskeleton
FENS Forum - FENS, 2022 . - 2022;

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Neuronal population activity in macaque V5/MT reflects and predicts visual perceptual strategy
Neuroscience 2022 - Society for Neuroscience, 2022 . - 2022;

Kakaei, Ehsan; Braun, Jochen

Direct linear discriminant analysis reveals representational changes of object identity, novelty and temporal community structure during a recognition learning task
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Köhler, Nadine; Schaper, Fred; Dittrich, Anna

Non-canonical STAT3 function reduces REDD1 transcription
4th International Conference on Cytokines in Cancer, 2022 . - 2022, insges. 1 S.

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STAT3-mediated reduction of REDD1 expression - Novel insights into crosstalk of inflammatory- and stress-signalling
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Miri, Niloufarsadat; Schaper, Fred; Dittrich, Anna

SARS-CoV2-induced vascular inflammation a battlefield for IL-6
25th Jubilee Meeting on Singal Transduction - Signal Transduction Society, 2022 . - 2022, S. 104

Mutlu, Murat Can; Kakaei, Ehsan; Braun, Jochen

Candidate areas for initiating spontaneous reversals of kinetic depth - inferior frontal cortex and insula
ResearchGATE - Cambridge, Mass.: ResearchGATE Corp., 2010 . - 2022;

Sams, Danielle; Smith, Jackson; Gaillard, Corentin; Ahmed, Bashir; Krug, Kristine

Histological validation of the accuracy of diffusion tensor imaging for traching fibre tracts in macaque extrastriate visual cortex
FENS Forum - FENS, 2022 . - 2022;

Weiglein, Aliće; Müller, Iris; Çalışkan, Gürsel; Stork, Oliver; Albrecht, Anne

Choosing memory retrieval strategies - a critical role for inhibition in the dentate gyrus
FENS Forum - FENS, 2022 . - 2022;

DISSERTATIONEN

Brosch, Marcel; Ohl, Frank [AkademischeR BetreuerIn]

Development and application of a transparent ECoG array and optrode microdrive for combined electrophysiology and optophysiology
Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (X, 137, i Seiten), Illustrationen;

Mancini, Nino; Gerber, Bertram [AkademischeR BetreuerIn]

Changing expectations - cognitive flexibility and reward processing in larval Drosophila
Magdeburg: Universitätsbibliothek Magdeburg, 2022, 1 Online-Ressource (125 Seiten, 5,25 MB), Illustrationen;

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
Vertr.-Prof. Dr. rer. nat. habil. Alexei Eremin
Prof. Dr. rer. nat. Andreas Menzel
Prof. Dr. rer. nat. Claus-Dieter Ohl
Prof. Dr. rer. nat. habil. Oliver Speck
Prof. Dr. rer. nat. habil. André Strittmatter
Jun.-Prof.in Dr. phil. Bianca Watzka
Dr. rer. nat. Gordon Schmidt

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Anikeeva, Mariia; Sangal, Maitreyi; Speck, Oliver; Norquay, Graham; Zuhayra, Maaz; Lützen, Ulf; Peters, Josh; Jansen, Olav; Hövener, Jan-Bernd

Nichtinvasive funktionelle Lungenbildgebung mit hyperpolarisiertem Xenon
Die Radiologie - [Berlin]: Springer Medizin Verlag GmbH, Bd. 62 (2022), 6, S. 475-485;
[Imp.fact.: 0.803]

Barbazzeni, Beatrice; Haider, Sultan; Friebe, Michael

Engaging through awareness - purpose-driven framework development to evaluate and develop future business strategies with exponential technologies toward healthcare democratization
Frontiers in Public Health - Lausanne: Frontiers Media, 2013, Bd. 10 (2022), insges. 11 S.;
[Imp.fact.: 6.461]

Bollmann, Saskia; Mattern, Hendrik; Bernier, Michael; Robinson, Simon D.; Park, Daniel; Speck, Oliver; Polimeni, Jonathan R.

Imaging of the pial arterial vasculature of the human brain in vivo using high-resolution 7T time-of-flight angiography
eLife - Cambridge: eLife Sciences Publications, Bd. 11 (2022), insges. 35 S.;

Bulychev, Alexander A.; Eremin, Alexey B.; Ruling, Florian; Alova, Anna V.

Effects of cell excitation on photosynthetic electron flow and intercellular transport in Chara
Protoplasma - Wien: Springer . - 2022;
[Imp.fact.: 3.186]

Challa, S. R.; Witte, Hartmut; Schmidt, Gordon; Blasing, Jürgen; Vega, N.; Kristukat, C.; Müller, N. A.; Debray, M. E.; Christen, J.; Dadgar, A.; Strittmatter, André

Defect characterization of heavy ion irradiated AlInN/GaN on Si high-electron-mobility transistors
Journal of physics / D - Bristol: IOP Publ., Bd. 55 (2022), 11, insges. 7 S.; <http://dx.doi.org/10.1088/1361-6463/ac40b8> 10.25673/89846
[Imp.fact.: 3.207]

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[Imp.fact.: 4.589]

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TorchEsegeta - framework for interpretability and explainability of image-based deep learning models

Applied Sciences - Basel: MDPI, Bd. 12 (2022), 4, insges. 20 S.;

[Imp.fact.: 2.679]

Chatterjee, Soumick; Nizamani, Faraz Ahmed; Nürnberger, Andreas; Speck, Oliver

Classification of brain tumours in MR images using deep spatiotemporal models

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 12 (2022), insges. 11 S.;

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DS6, deformation-aware semi-supervised learning - application to small vessel segmentation with noisy training data

Journal of imaging - Basel: MDPI, Bd. 8 (2022), 10, insges. 22 S.;

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StRegA - unsupervised anomaly detection in brain MRIs using a compact context-encoding variational autoencoder

Computers in biology and medicine - Amsterdam [u.a.]: Elsevier Science, Bd. 149 (2022);

[Imp.fact.: 6.698]

Cuscó, Ramon; Yamaguchi, Tomohiro; Kluth, Elias; Goldhahn, Rüdiger; Feneberg, Martin

Optical properties of corundum-structured In₂O₃

Applied physics letters - Melville, NY: American Inst. of Physics, Bd. 121 (2022), 6;

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Dreier, Jens P.; Winkler, Maren K. L.; Major, Sebastian; Woitzik, Johannes; Milakara, Denny

Spreading depolarizations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study

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