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UNIVERSITÄT
MAGDEBURG

NAT

FAKULTÄT FÜR
NATURWISSENSCHAFTEN

Publikationsbericht 2023

Institut für Physik

INSTITUT FÜR PHYSIK

1. LEITUNG

Prof. Dr. rer. nat. habil. Rüdiger Goldhahn (Leiter)
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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

Agarwal, Kalyani; Trivedi, Mohit; Ohl, Claus-Dieter; Nirmalkar, Neelkanth

On nanobubble dynamics under an oscillating pressure field during salting-out effects and its DLVO potential
Langmuir - Washington, DC : ACS Publ., Bd. 39 (2023), Heft 15, S. 5250-5262
[Imp.fact.: 3.9]

Anikeeva, Maria; Sangal, Maitreyi; Pravdivtsev, Andrey N.; Pravdivtseva, Maryia S.; Peschke, Eva; Speck, Oliver; Hövener, Jan-Bernd

Magnetic resonance imaging and velocimetry of ethane
Journal of magnetic resonance open - Amsterdam : Elsevier, Bd. 16/17 (2023), Artikel 100137

Bao, Hengzhu; Reuter, Fabian; Zhang, Hongchao; Lu, Jian R.; Ohl, Claus-Dieter

Impact-driven cavitation bubble dynamics
Experiments in fluids - Berlin : Springer, Bd. 64 (2023), Artikel 27, insges. 13 S.
[Imp.fact.: 2.4]

Barbazzeni, Beatrice; Speck, Oliver; Düzel, Emrah

Cognitive training, but not EEG-neurofeedback, improves working memory in healthy volunteers
Brain communications - [Oxford]: Oxford University Press, Bd. 5 (2023), Heft 2, Artikel fcad101, insges. 17 S.
[Imp.fact.: 4.8]

Baron, Elias; Goldhahn, Rüdiger; Espinoza, Shirly; Zahradník, Martin; Rebarz, Mateusz; Andreasson, Jakob; Deppe, Michael; As, Donat J.; Feneberg, Martin

Time-resolved pump-probe spectroscopic ellipsometry of cubic GaN. I. - Determination of the dielectric function
Journal of applied physics - Melville, NY : American Inst. of Physics, Bd. 134 (2023), Heft 7, Artikel 075702, insges. 11 S.
[Imp.fact.: 3.2]

Baron, Elias; Goldhahn, Rüdiger; Espinoza, Shirly; Zahradník, Martin; Rebarz, Mateusz; Andreasson, Jakob; Deppe, Michael; As, Donat J.; Feneberg, Martin

Time-resolved pump-probe spectroscopic ellipsometry of cubic GaN II - absorption edge shift with gain and temperature effects
Journal of applied physics - Melville, NY : American Inst. of Physics, Bd. 134 (2023), Heft 7, Artikel 075703, insges. 8 S.
[Imp.fact.: 3.2]

Chatterjee, Soumick; Bajaj, Himanshi; Siddiquee, Istiyak H.; Subbarayappa, Nandish Bandi; Simon, Steve; Shashidhar, Suraj Bangalore; Speck, Oliver; Nürnberger, Andreas

MICDIR - multi-scale inverse-consistent deformable image registration using UNetMSS with self-constructing graph latent

Computerized medical imaging and graphics - Amsterdam [u.a.]: Elsevier Science, Bd. 108 (2023), Artikel 102267

[Imp.fact.: 5.7]

Dadgar, Armin; Borgmann, Ralf; Bläsing, Jörg; Strittmatter, André

High resistive buffer layers by Fermi level engineering

Journal of applied physics - Melville, NY : American Inst. of Physics, Bd. 134 (2023), Heft 2, Artikel 025701, insges. 9 S.

[Imp.fact.: 2.8]

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

Sputter epitaxy of AlN and GaN on Si(111)

Physica status solidi / A - Weinheim : Wiley-VCH, Bd. 220 (2023), Heft 8, Artikel 2200609, insges. 6 S.

[Imp.fact.: 2.0]

Danyeli, Lena; Şen, Zümrüt Duygu; Colic, Lejla; Kurzweil, Lisa; Gensberger-Reigl, Sabrina; Macharadze, Tamar; Götting, Florian Nicolas; Refisch, Alexander; Liebe, Thomas; Chand, Tara; Kretzschmar, Moritz Andreas; Wagner, Gerd; Opel, Nils; Jollant, Fabrice; Speck, Oliver; Munk, Matthias Hans Joachim; Li, Meng; Walter, Martin

Association of the delayed changes in glutamate levels and functional connectivity with the immediate network effects of S-ketamine

Translational Psychiatry - London : Nature Publishing Group, Bd. 13 (2023), Artikel 60, insges. 9 S.

[Imp.fact.: 6.8]

Denawi, Adam Hassan; Bouju, Xavier; Abel, Mathieu; Richter, Johannes; Hayn, Roland

Metal-organic kagome systems as candidates to study spin liquids, spin ice or the quantum anomalous Hall effect

Physical review materials - College Park, MD : APS, Bd. 7 (2023), Heft 1, Artikel 074201, insges. 14 S.

[Imp.fact.: 3.4]

Dieckmann, Niklas; Puzyrev, Dmitry; Trittel, Torsten; Stannarius, Ralf

Jumping platonic solids on a vibrating plate

Annalen der Physik - Berlin : Wiley-VCH . - 2023, insges. 12 S.

[Imp.fact.: 2.4]

Doehler, Juliane; Northall, Alicia; Liu, Peng; Fracasso, Alessio; Chrysidou, Anastasia; Speck, Oliver; Lohmann, Gabriele; Wolbers, Thomas; Kühn, Esther

The 3D structural architecture of the human hand area is nontopographic

The journal of neuroscience - Washington, DC : Soc., Bd. 43 (2023), Heft 19, S. 3456-3476

[Imp.fact.: 5.3]

Dular, Matevž; Ohl, Claus-Dieter

Bulk material influence on the aggressiveness of cavitation – Questioning the microjet impact influence and suggesting a possible way to erosion mitigation

Wear - Amsterdam [u.a.]: Elsevier Science, Bd. 530/531 (2023), Artikel 205061, insges. 9 S.

[Imp.fact.: 5.0]

Egbo, Kingsley; Luna, Esperanza; Lähnemann, Jonas; Hoffmann, Georg F.; Trampert, Achim; Grümbel, Jona; Kluth, Elias; Feneberg, Martin; Goldhahn, Rüdiger; Bierwagen, Oliver

Epitaxial synthesis of unintentionally doped p-type SnO (001) via suboxide molecular beam epitaxy

Journal of applied physics - Melville, NY : American Inst. of Physics, Bd. 133 (2023), Heft 4, Artikel 045701, insges. 11 S.

[Imp.fact.: 3.2]

Ernst, Philipp; Chatterjee, Soumick; Rose, Georg; Speck, Oliver; Nürnberger, Andreas

Sinogram upsampling using Primal-Dual UNet for undersampled CT and radial MRI reconstruction

Neural networks - Amsterdam : Elsevier, Bd. 166 (2023), S. 704-721

[Imp.fact.: 7.8]

Garcia-Garcia, Berta; Mattern, Hendrik; Vockert, Niklas; Yakupov, Renat; Schreiber, Frank; Spallazzi, Marco; Perosa, Valentina; Haghikia, Aiden; Speck, Oliver; Düzel, Emrah; Maass, Anne; Schreiber, Stefanie

Vessel distance mapping - a novel methodology for assessing vascular-induced cognitive resilience

NeuroImage - Orlando, Fla. : Academic Press, Bd. 274 (2023), Artikel 120094, insges. 12 S.

[Imp.fact.: 5.7]

Gembé, Martin; Schmidt, Heinz-Jürgen; Hickey, Ciarán; Richter, Johannes; Iqbal, Yasir; Trebst, Simon

Noncoplanar magnetic order in classical square-kagome antiferromagnets

Physical review research - College Park, MD : APS, Bd. 5 (2023), Heft 4, Artikel 043204, insges. 23 S.

[Imp.fact.: 4.2]

Georgakis, Marios K.; Fang, Rong; Düring, Marco; Wollenweber, Frank Arne; Bode, Felix J.; Stösser, Sebastian; Kindlein, Christine; Hermann, Peter; Liman, Thomas; Nolte, Christian H.; Kerti, Lucia; Ikenberg, Benno; Bernkopf, Kathleen; Poppert, Holger; Glanz, Wenzel; Perosa, Valentina; Janowitz, Daniel; Wagner, Michael; Neumann, Katja; Speck, Oliver; Dobisch, Laura; Düzel, Emrah; Gesierich, Benno; Dewenter, Anna; Spottke, Annika E.; Waegemann, Karin; Görtler, Michael; Wunderlich, Silke; Endres, Matthias; Zerr, Inga; Petzold, Gabor; Dichgans, Martin

Cerebral small vessel disease burden and cognitive and functional outcomes after stroke - a multicenter prospective cohort study

Alzheimer's and dementia - Hoboken, NJ : Wiley, Bd. 19 (2023), Heft 4, S. 1152-1163

[Imp.fact.: 14.0]

Ghasemian, Saber Izak; Reuter, Fabian; Fan, Yuzhe; Rose, Georg; Ohl, Claus-Dieter

Shear wave generation from non-spherical bubble collapse in a tissue phantom

Soft matter - London : Royal Soc. of Chemistry . - 2023, insges. 8 S.

[Imp.fact.: 3.4]

Goh, Segun; Menzel, Andreas; Wittmann, René; Löwen, Hartmut

Density functional approach to elastic properties of three-dimensional dipole-spring models for magnetic gels

The journal of chemical physics - Melville, NY : American Institute of Physics, Bd. 158 (2023), Heft 5, Artikel 054909, insges. 17 S.

[Imp.fact.: 4.4]

Gutiérrez-Hernández, Ulisses J.; Reese, Hendrik David; Ohl, Claus-Dieter; Quinto-Su, Pedro A.

Controlled inertial nano-cavitation above 100 MHz

Journal of fluid mechanics - Cambridge [u.a.]: Cambridge Univ. Press, Bd. 968 (2023), Heft A16, insges. 15 S.

[Imp.fact.: 3.7]

Gutiérrez-Hernández, Ulisses J.; Reese, Hendrik; Reuter, Fabian; Ohl, Claus-Dieter; Quinto-Su, Pedro A.

Nano-cracks and glass carving from non-symmetrically converging shocks (Adv. Phys. Res. 10/2023)

Advanced physics research - Weinheim : Wiley-VCH GmbH, Bd. 2 (2023), Heft 10, Artikel 2370021

Harmgarth, Nicole; Liebing, Phil; Lorenz, Volker; Engelhardt, Felix; Hilfert, Liane; Busse, Sabine; Goldhahn, Rüdiger; Edelmann, Frank T.

Synthesis and structural characterization of p-carboranyl amidine derivatives

Molecules - Basel : MDPI, Bd. 28 (2023), Heft 9, Artikel 3837, insges. 11 S.

[Imp.fact.: 4.6]

Haseljić, Hana; Chatterjee, Soumick; Frysich, Robert; Kulvait, Vjtěch; Semshchikov, Vladimir; Hensen, Bennet; Wacker, Frank; Brüsich, Inga; Werncke, Thomas; Speck, Oliver; Nürnberger, Andreas; Rose, Georg

Liver segmentation using turbolift learning for CT and cone-beam C-arm perfusion imaging

Computers in biology and medicine - Amsterdam [u.a.]: Elsevier Science, Bd. 154 (2023), Artikel 106539

[Imp.fact.: 7.7]

Herrmann, Luisa; Ade, Johanna; Kühnel, Anne; Widmann, Annina; Demenescu, Liliana Romona; Li, Meng; Opel, Nils; Speck, Oliver; Walter, Martin; Colic, Lejla

Cross-sectional study of retrospective self-reported childhood emotional neglect and inhibitory neurometabolite levels in the pregenual anterior cingulate cortex in adult humans

Neurobiology of Stress - Amsterdam [u.a.]: Elsevier, Bd. 25 (2023), Artikel 100556

[Imp.fact.: 5.0]

Hutak, Taras; Krokhmalskii, Taras; Derzhko, Oleg; Richter, Johannes

Spin-half Heisenberg antiferromagnet on a symmetric sawtooth chain - rotation-invariant Green's functions and high-temperature series

The European physical journal / B - Berlin : Springer, Bd. 96 (2023), Heft 4, Artikel 50, insges. 14 S.

[Imp.fact.: 1.6]

Hülsmann, Jörn; Fraune, Theresa; Dodawatta, Baratha; Reuter, Fabian; Beutner, Martin; Beck, Viktoria; Hackert-Oschätzchen, Matthias; Ohl, Claus-Dieter; Bettenbrock, Katja; Janiga, Gábor; Wippermann, Jens; Wacker, Max

Integrated biophysical matching of bacterial nanocellulose coronary artery bypass grafts towards bioinspired artery typical functions

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 13 (2023), Artikel 18274, insges. 12 S.

[Imp.fact.: 4.6]

Jacobsen, Jesper Lykke; Mertens, Stephan; Scullard, Christian R.

A biography of Robert M Ziff

Journal of physics / A - Bristol : IOP Publ., Bd. 56 (2023), Heft 41, Artikel 410201, insges. 11 S.

[Imp.fact.: 2.1]

Jiang, Xuefeng; Yin, Shixiong; Li, Huanan; Quan, Jiamin; Goh, Heedong; Cotrufo, Michele; Kullig, Julius; Wiersig, Jan; Alù, Andrea

Coherent control of chaotic optical microcavity with reflectionless scattering modes

Nature physics - Basingstoke : Nature Publishing Group . - 2023

[Imp.fact.: 19.6]

Johnson, Ryan; Liebing, Phil; Musikanth, Daniel P.; Regitz, Stuart A.; Amenta, Donna S.; Goldhahn, Rüdiger; Edelmann, Frank T.; Gilje, John W.

Pyrazolylpropanoate complexes of palladium(II) chloride

Zeitschrift für anorganische und allgemeine Chemie - Weinheim : Wiley-VCH . - 2023, Artikel e202300076, insges. 15 S.

[Imp.fact.: 1.4]

Kalyani, Avinash; Contier, Oliver; Klemm, Lisa; Azañon, Elena; Schreiber, Stefanie; Speck, Oliver; Reichert, Christoph; Kühn, Esther

Reduced dimension stimulus decoding and column-based modeling reveal architectural differences of primary somatosensory finger maps between younger and older adults

NeuroImage - Orlando, Fla. : Academic Press, Bd. 283 (2023), Artikel 120430, insges. 13 S.

[Imp.fact.: 5.7]

Kluth, Elias; Anhar Uddin Bhuiyan, A. F. M.; Meng, Lingyu; Bläsing, Jürgen; Zhao, Hongping; Strittmatter, André; Goldhahn, Rüdiger; Feneberg, Martin

Determination of anisotropic optical properties of MOCVD grown m-plane α -(Al_xGa_{1-x})₂O₃ alloys

Japanese journal of applied physics - Bristol : IOP Publ., Bd. 62 (2023), Heft 5, Artikel 051001, insges. 8 S.

[Imp.fact.: 1.5]

Kluth, Elias; Fay, Michael; Parmenter, Christopher; Roberts, Joseph; Smith, Emily Rose; Stoppiello, Craig; Massabuau, Fabien; Goldhahn, Rüdiger; Feneberg, Martin
Redshift and amplitude increase in the dielectric function of corundum-like -($TixGa1-x$)₂₀₃
Applied physics letters - Melville, NY : American Inst. of Physics, Bd. 122 (2023), Heft 9, Artikel 092101, insges. 7 S.
[Imp.fact.: 4.0]

Kneissl, Michael; Christen, Jürgen; Hoffmann, Axel; Monemar, Bo; Wernicke, Tim; Schwarz, Ulrich; Haglund, Åsa; Meneghini, Matteo
Nitride semiconductors
Physica status solidi. A, Applications and materials science - Weinheim : Wiley-VCH, Bd. 220 (2023), Heft 16, Artikel 2300484
[Imp.fact.: 1.6]

Kukhlenko, Olga; Kukhlenko, Rostislav; Tempelmann, Claus; Speck, Oliver; Hinrichs, Hermann; Heinze, Hans-Jochen; Heers, Marcel; House, Patrick M.; Wörmann, Friedrich Gerrit; Knake, Susanne; Urbach, Horst; Huppertz, Hans-Jürgen; Haghikia, Aiden; Schmitt, Friedhelm C.
Study protocol - value of 7-T MRI with prospective motion correction and postprocessing for patients with nonlesional epilepsy - Studienprotokoll - Wert der 7-T-MRT mit prospektiver Bewegungskorrektur und Nachbearbeitung bei Patienten mit nichtläisionaler Epilepsie
Clinical epileptology - Berlin : Springer Medizin Verlag GmbH, Bd. 36 (2023), Heft 4, S. 320-326
[Imp.fact.: 0.5]

Kullig, Julius; Grom, Daniel; Klembt, Sebastian; Wiersig, Jan
Higher-order exceptional points in waveguide-coupled microcavities - perturbation induced frequency splitting and mode patterns
Photonics research - Washington, DC : Optica, Bd. 11 (2023), Heft 10, S. A54-A64
[Imp.fact.: 7.6]

Küster, Melvin; Nádası, Hajnalka; Eremin, Alexey; Boštjančič, Patricija Hribar; Ludwig, Frank
Magnetic-field dependence of the magnetic dynamics of barium hexaferrite nanoplatelet suspensions
Journal of magnetism and magnetic materials - Amsterdam : North-Holland Publ. Co., Bd. 588 (2023), Heft Part A, Artikel 171368
[Imp.fact.: 2.7]

Ladd, Mark E.; Quick, Harald H.; Speck, Oliver; Bock, Michael; Doerfler, Arnd; Forsting, Michael; Hennig, Jürgen; Ittermann, Bernd; Möller, Harald E.; Nagel, Armin M.; Niendorf, Thoralf; Remy, Stefan; Schaeffter, Tobias; Scheffler, Klaus; Schlemmer, Heinz-Peter; Schmitter, Sebastian; Schreiber, Laura M.; Shah, N. Jon; Stöcker, Tony; Uder, Michael; Villringer, Arno; Weiskopf, Nikolaus; Zaiss, Moritz; Zaitsev, Maxim
Germany's journey toward 14 Tesla human magnetic resonance
Magnetic resonance materials in physics, biology and medicine - Heidelberg : Springer, Bd. 36 (2023), Heft 2, S. 191-200
[Imp.fact.: 2.3]

Lequy, Theo; Menzel, Andreas M.
Stochastic motion under nonlinear friction representing shear thinning
Physical review - Woodbury, NY : Inst., Bd. 108 (2023), Heft 6, Artikel 064606, insges. 11 S.
[Imp.fact.: 2.4]

Maletzko, Annabelle; Gomez Villa, Eduardo Daniel; Kintzel, Birgit; Fietzek, Harald; Schmidt, Gordon; Christen, Jürgen; Veit, Peter; Kühne, Philipp; Melke, Julia
Interaction of catalysts for unitized regenerative fuel cells
ECS transactions / Electrochemical Society - Pennington, NJ, Bd. 112 (2023), Heft 4, S. 185-197

Mihalic, S.; Wade, E.; Lüttich, Christopher; Hörich, Florian; Sun, C.; Fu, Z.; Christian, B.; Dadgar, Armin; Strittmatter, André; Anbacher, O.

Structural properties and epitaxial relation of cubic rock salt $\text{Sc}_x\text{Al}_{1-x}\text{N}/\text{ScN}/\text{Si}$

Journal of applied physics - Melville, NY : American Inst. of Physics, Bd. 134 (2023), Heft 2, Artikel 155107, insges. 12 S.

[Imp.fact.: 2.8]

Morton, Lorena; Arndt, Philipp; Garza, Alejandra P.; Henneicke, Solveig; Mattern, Hendrik; Gonzalez, Marilyn; Dityatev, Alexander; Yilmazer-Hanke, Deniz; Schreiber, Stefanie; Dunay, Ildikò Rita

Spatio-temporal dynamics of microglia phenotype in human and murine cSVD - impact of acute and chronic hypertensive states

Acta Neuropathologica Communications - London : Biomed Central, Bd. 11 (2023), Artikel 204, insges. 23 S.

[Imp.fact.: 7.1]

Mudzakir, Ahmad; Liebing, Phil; Haak, Edgar; Fischer, Axel; Hilfert, Liane; Goldhahn, Rüdiger; Edelmann, Frank T.

An unusual phosphide addition reaction of 1,3-dimethyl-1,2,3-benzotriazolium iodide

Inorganic chemistry communications - Amsterdam [u.a.]: Elsevier Science . - 2023, Artikel 111924

[Imp.fact.: 3.8]

Nagy, Viktor; Fan, Bo; Somfai, Ellák; Stannarius, Ralf; Börzsönyi, Tamás

Flow of asymmetric elongated particles

Journal of statistical mechanics: theory and experiment - Bristol : IOP Publ., Bd. 2023 (2023), Heft 11, Artikel 113201, insges. 13 S.

[Imp.fact.: 2.4]

Niggemann, Nils; Astrakhantsev, Nikita; Ralko, Arnaud; Ferrari, Francesco; Maity, Atanu; Müller, Tobias; Richter, Johannes; Thomale, Ronny; Neupert, Titus; Reuther, Johannes; Iqbal, Yasir; Jeschke, Harald O.

Quantum paramagnetism in the decorated square-kagome antiferromagnet $\text{Na}_6\text{Cu}_7\text{BiO}_4(\text{PO}_4)_4\text{Cl}_3$

Physical review - Woodbury, NY : Inst., Bd. 108 (2023), Heft 24, Artikel L241117, insges. 6 S.

[Imp.fact.: 3.7]

Nádası, Hajnalka; Küster, Melvin; Mertelj, Alenka; Sebastián, Nerea; Hribar Boštjančič, Patricija; Lisjak, Darja; Viereck, Thilo; Rosenberg, Margaret; Ivanov, Alexey O.; Kantorovich, Sofia S.; Eremin, Alexey; Ludwig, Frank

Role of ionic surfactant in magnetic dynamics of self-assembled dispersions of nanoplatelets

Journal of molecular liquids - New York, NY [u.a.]: Elsevier, Bd. 382 (2023), Artikel 121900

[Imp.fact.: 6.0]

Perosa, Valentina; Rotta, Johanna; Yakupov, Renat; Kuijf, Hugo J.; Schreiber, Frank; Oltmer, Jan T.; Mattern, Hendrik; Heinze, Hans-Jochen; Düzel, Emrah; Schreiber, Stefanie

Implications of quantitative susceptibility mapping at 7 Tesla MRI for microbleeds detection in cerebral small vessel disease

Frontiers in neurology - Lausanne : Frontiers Research Foundation, Bd. 14 (2023), Artikel 1112312, insges. 10 S.

[Imp.fact.: 3.4]

Petzold, Johannes; Schmitter, Sebastian; Silemek, Berk; Winter, Lukas; Speck, Oliver; Ittermann, Bernd; Seifert, Frank

Investigation of alternative RF power limit control methods for 0.5T, 1.5T, and 3T parallel transmission cardiac imaging - a simulation study

Magnetic resonance in medicine - New York, NY [u.a.]: Wiley-Liss . - 2023, insges. 17 S.

[Imp.fact.: 3.3]

Petzold, Johannes; Schmitter, Sebastian; Silemek, Berk; Winter, Lukas; Speck, Oliver; Ittermann, Bernd; Seifert, Frank

Towards an integrated radiofrequency safety concept for implant carriers in MRI based on sensor-equipped implants and parallel transmission

NMR in biomedicine - New York, NY : Wiley, Bd. 36 (2023), Heft 7, Artikel e4900, insges. 20 S.

[Imp.fact.: 2.9]

Pfeiffer, Patricia; Ohl, Claus-Dieter; Meloni, Simone

Kavitation an Flüssig-Flüssig-Grenzflächen

Physik in unserer Zeit - Weinheim : Wiley-VCH, Bd. 54 (2023), Heft 1, S. 8-9

Reese, Hendrik; Ohl, Siew-Wan; Ohl, Claus-Dieter

Cavitation bubble induced wall shear stress on an elastic boundary

Physics of fluids - Melville, NY : American Institute of Physics, Bd. 35 (2023), Heft 7, Artikel 076122, insges. 15 S.

[Imp.fact.: 4.4]

Reichert, Nico; Schlüter, Henrik; Heitmann, Tjark; Richter, Johannes; Rausch, Roman; Schnack, Jürgen

Magneto- and barocaloric properties of the ferro-antiferromagnetic sawtooth chain

Zeitschrift für Naturforschung / A - Berlin : De Gruyter . - 2023

Reuter, Fabian; Sato, Tokushi; Bellucci, Valerio; Birnsteinova, Sarlota; Deiter, Carsten; Koliyadu, Jayanath C. P.; Letrun, Romain; Villanueva-Perez, Pablo; Bean, Richard; Mancuso, Adrian P.; Meents, Alke; Vagovic, Patrik; Ohl, Claus-Dieter

Laser-induced, single droplet fragmentation dynamics revealed through megahertz x-ray microscopy

Physics of fluids - Melville, NY : American Institute of Physics, Bd. 35 (2023), Heft 11, Artikel 113323, insges. 10 S.

[Imp.fact.: 4.4]

Richter, Johannes; Schnack, Jürgen

Magnetism of the $S=1/2$ J_1-J_2 square-kagome lattice antiferromagnet

Physical review - Woodbury, NY : Inst., Bd. 107 (2023), Heft 24-15, Artikel 245115, insges. 12 S.

[Imp.fact.: 3.7]

Rosselló, Juan Manuel; Ohl, Claus-Dieter

Clean production and characterization of nanobubbles using laser energy deposition

Ultrasonics sonochemistry - Amsterdam [u.a.]: Elsevier Science, Bd. 94 (2023), Artikel 106321, insges. 12 S.

[Imp.fact.: 8.4]

Rosselló, Juan Manuel; Reese, Hendrik David; Raman, K. Ashoke; Ohl, Claus-Dieter

Bubble nucleation and jetting inside a millimetric droplet

Journal of fluid mechanics - Cambridge [u.a.]: Cambridge Univ. Press, Bd. 968 (2023), Heft A19, insges. 35 S.

[Imp.fact.: 3.7]

Roudini, Mehrzad; Rosselló, Juan Manuel; Manor, Ofer; Ohl, Claus-Dieter; Winkler, Andreas

Acoustic resonance effects and cavitation in SAW aerosol generation

Ultrasonics sonochemistry - Amsterdam [u.a.]: Elsevier Science, Bd. 98 (2023), Artikel 106530, insges. 9 S.

[Imp.fact.: 8.4]

Rüling, Florian von; Alova, Anna V.; Bulychev, Alexander; Eremin, Alexey

Intercellular permeation and cyclosis-mediated transport of a fluorescent probe in Characeae

Biophysical journal - Cambridge, Mass. : Cell Press, Bd. 122 (2023), Heft 12, S. 419-432

[Imp.fact.: 3.4]

Rüling, Florian von; Bakhchova, Liubov; Steinmann, Ulrike; Eremin, Alexey

Permeation dynamics of active swimmers through anisotropic porous walls

Advanced physics research - Weinheim : Wiley-VCH GmbH . - 2023, insges. 13 S.

Rüling, Florian von; Hirankittiwong, Pemika; Alova, Anna V.; Nádasi, Hajnalka; Chattham, Nattaporn;

Bulychev, Alexander; Eremin, Alexey

Probing cytoplasmic streaming using liquid crystal droplets

Liquid crystals - London [u.a.]: Taylor and Francis . - 2024, insges. 7 S.

[Imp.fact.: 2.2]

Sangal, Maitreyi; Anikeeva, Mariia; Priese, Simon C.; Mattern, Hendrik; Hövener, Jan-Bernd; Speck, Oliver

MR based magnetic susceptibility measurements of 3D printing materials at 3 Tesla

SSRN eLibrary - [Erscheinungsort nicht ermittelbar]: Social Science Electronic Publ. . - 2023, insges. 17 S.

Schreiber, Stefanie; Arndt, Philipp; Meuth, Sven G.; Dityatev, Alexander; Mattern, Hendrik

Brain microvascular disease and functional network connectivity - a call for a stage-based approach

Brain communications - [Oxford]: Oxford University Press, Bd. 5 (2023), Heft 3, Artikel fcad135, insges. 3 S.

[Imp.fact.: 4.8]

Schreiber, Stefanie; Bernal, Jose; Arndt, Philipp; Schreiber, Frank; Müller, Patrick; Morton, Lorena; Braun-Dullaeus, Rüdiger Christian; Valdés-Hernández, María D. C.; Duarte, Roberto; Wardlaw, Joanna M.; Meuth, Sven G.; Mietzner, Grazia; Vielhaber, Stefan; Dunay, Ildikó Rita; Dityatev, Alexander; Jandke, Solveig; Mattern, Hendrik

Brain vascular health in ALS is mediated through motor cortex microvascular integrity

Cells - Basel : MDPI, Bd. 12 (2023), Heft 6, Artikel 957, insges. 23 S.

[Imp.fact.: 6.0]

Schreiber, Stefanie; John, Anna-Charlotte; Werner, Cornelius Johannes; Vielhaber, Stefan; Heinze, Hans-Jochen; Speck, Oliver; Würfel, Jens Thomas; Behme, Daniel; Mattern, Hendrik

Counteraction of inflammatory activity in CAA-related subarachnoid hemorrhage

Journal of neurology - [Darmstadt]: Steinkopff, Bd. 270 (2023), Heft 2, S. 1159-1161

[Imp.fact.: 6.0]

Schweinberger, Matthias; Watzka, Bianca; Girwidz, Raimund

Eye tracking as feedback tool in physics teacher education

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