



FAKULTÄT FÜR  
NATURWISSENSCHAFTEN

# Publikationsbericht 2017

Institut für Experimentelle Physik

# INSTITUT FÜR EXPERIMENTELLE PHYSIK

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## 1. Leitung

Prof. Dr. rer. nat. habil. Rüdiger Goldhahn (geschäftsführender Leiter)  
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Prof. Dr. rer. nat. habil. Oliver Speck  
Prof. Dr. rer. nat. habil. Ralf Stannarius  
Prof. Dr. rer. nat. André Strittmatter  
Prof. Dr. rer. nat. Claus-Dieter Ohl (ab 09/2017)  
Dr. rer. nat. Peter Veit  
Dr. rer. nat. Hartmut Witte

## 2. Veröffentlichungen

### ***Begutachtete Zeitschriftenaufsätze***

**Alaasar, Mohamed; Poppe, Silvio; Kerzig, Christoph; Klopp, Christoph; Eremin, Alexey; Tschierske, Carsten**  
Cluster phases of 4-cyanoresorcinol derived hockey-stick liquid crystals  
In: Journal of materials chemistry / C - London [u.a.]: RSC, Bd. 5.2017, 33, S. 8454-8468  
[Imp.fact.: 5,256]

**Aman, Sergej; Aman, Alexander; Hintz, Werner; Trüe, Michael; Veit, Peter; Hirsch, Sören**  
The exfoliation of graphite particles in the vibratory disk mill  
In: Chemie - Ingenieur - Technik: CIT - Weinheim: Wiley-VCH Verl, Bd. 89.2017, 9, S. 1185-1191  
[Imp.fact.: 0,877]

**Amon, Axelle; Born, Philip; Daniels, Karen E.; Dijkstra, Joshua A.; Huang, Kai; Parker, David; Schröter, Matthias; Stannarius, Ralf; Wierschem, Andreas**  
Preface: Focus on imaging methods in granular physics  
In: Review of scientific instruments: a monthly journal devoted to scientific instruments, apparatus, and techniques - [S.I.]: American Institute of Physics, Vol. 88.2017, 5, Art. 051701  
[Imp.fact.: 1,336]

**Appel, Ingo; Nádasi, Hajnalka; Reitz, Christian; Sebastián, Nerea; Hahn, Horst; Eremin, Alexey; Stannarius, Ralf; Behrens, Silke S.**  
Doping of nematic cyanobiphenyl liquid crystals with mesogen-hybridized magnetic nanoparticles  
In: Physical chemistry, chemical physics: PCCP; a journal of European chemical societies - Cambridge: RSC Publ, Bd. 19.2017, 12, S. 12127-12135  
[Imp.fact.: 4,125]

**Ashour, Ahmed; Wegner, Sandra; Trittel, Torsten; Borzsonyi, Tamas; Stannarius, Ralf**  
Outflow and clogging of shape-anisotropic grains in hoppers with small apertures  
In: Soft matter - London: Royal Soc. of Chemistry, Bd. 13.2017, 2, S. 402-414  
[Imp.fact.: 3,889]

**Bengoechea-Encabo, A; Albert, S.; Müller, Mathias; Xie, M.-Y.; Veit, Peter; Bertram, Frank; Sanchez-Garcia, M. A.; Zúñiga-Pérez, J.; Mierry, P.; Christen, Jürgen; Calleja, E.**

Selective area growth of AlN/GaN nanocolumns on (0001) and (1122) GaN/sapphire for semi-polar and non-polar AlN pseudo-templates

In: Nanotechnology - Bristol: IOP Publ, Vol. 36.2017, 36, Art. 365704, insgesamt 6 S.

[Imp.fact.: 3,440]

**Börzsönyi, Tamás; Somfai, Ellák; Szabó, Balázs; Wegner, Sandra; Ashour, Ahmed; Stannarius, Ralf**

Elongated grains in a hopper

In: The European physical journal / Web of Conferences - Les Ulis: EDP Sciences, Vol. 140, Section Particle shape effects, Art. 06017, insgesamt 4 S., 2017

[Konferenz: 8th International Conference on Micromechanics on Granular Media, Powders and Grains 2017, Montpellier, France, July 3-7, 2017]

**Bounouar, Samir; Strauß, Max; Carmele, Alexander; Schnauber, Peter; Thoma, Alexander; Gschrey, Manuel; Schulze, Hans-Peter; Strittmatter, André; Rodt, Sven; Knorr, Andreas; Reitzenstein, Stephan**

Path-controlled time reordering of paired photons in a dressed three-level cascade

In: Physical review letters - College Park, Md: APS, Vol. 118.2017, 23, Artikel 233601; <http://dx.doi.org/10.1103/PhysRevLett.118.233601>

PhysRevLett.118.233601

[Imp.fact.: 8,462]

**Bruns, Christian; Hauser, Marcus J. B.**

Dynamics of scroll waves in a cylinder jacket geometry

In: Physical review - Woodbury, NY: Inst, Bd. 96.2017, 1, insges. 6 S.

[Imp.fact.: 2,366]

**Clark, Noel A.; Eremin, Alexey; Glaser, Matthew A.; Hall, Nancy; Harth, Kirsten; Klopp, Christoph; MacLennan, Joseph E.; Park, Cheol S.; Stannarius, Ralf; Tin, Padetha; Thurmes, William N.; Trittel, Torsten**

Realization of hydrodynamic experiments on quasi-2D liquid crystal films in microgravity

In: Advances in space research: including COSPAR information bulletin: the official journal of the Committee on Space Research (COSPAR), a scientific committee of the International Council of Scientific Unions (ICSU) - Amsterdam [u.a.]: Elsevier Science, 2017; <http://dx.doi.org/10.1016/j.asr.2017.04.014>

[Imp.fact.: 1,409]

**Dähmlow, Patricia; Almeida, Jessica; Müller, Stefan C.**

Patterns in the bubble-free Belousov-Zhabotinsky reaction dissolved in a microemulsion

In: epl: a letters journal exploring the frontiers of physics - Les Ulis: EDP Sciences, Vol. 116.2017, 6, Art. 60016, insgesamt 7 S.

[Imp.fact.: 1,963]

**Dähmlow, Patricia; Trittel, Torsten; May, Kathrin; Harth, Kirsten; Stannarius, Ralf**

Surface reduction of freely floating smectic bubbles

In: Liquid crystals: an international journal of science and technology - London [u.a.]: Taylor and Francis, insges. 11 S., 2017

[Imp.fact.: 2,244]

**Fariza, A.; Lesnik, A.; Neugebauer, S.; Wieneke, Matthias; Hennig, J.; Bläsing, Jürgen; Witte, Hartmut; Dadgar, Armin; Strittmatter, André**

Leakage currents and fermi-level shifts in GaN layers upon iron and carbon-doping

In: Journal of applied physics: AIP's archival journal for significant new results in applied physics - Melville, NY: American Inst. of Physics, Vol. 122.2017, 2, Art. 025704, insgesamt 7 S.

[Imp.fact.: 2,101]

**Fatahi, Mahsa; Karpowicz, Jolanta; Gryz, Krzysztof; Fattahi, Amirmohammad; Rose, Georg; Speck, Oliver**

Evaluation of exposure to (ultra) high static magnetic fields during activities around human MRI scanners  
In: Magnetic resonance materials in physics, biology and medicine: (MAGMA): the official journal of the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB) - Heidelberg: Springer, Bd. 30.2017, 3, S. 255-264  
[Imp.fact.: 1,718]

**Fischbach, Sarah; Kaganskiy, Arseniy; Tauscher, Esra Burcu Yazar; Gericke, Fabian; Thoma, Alexander; Schmidt, Ronny; Strittmatter, André; Heindel, Tobias; Rodt, Sven; Reitzenstein, S.**

Efficient single-photon source based on a deterministically fabricated single quantum dot - microstructure with backside gold mirror

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 1, Art. 011106, insgesamt 5 S.  
[Imp.fact.: 3,142]

**Fischbach, Sarah; Schlehahn, Alexander; Thoma, Alexander; Srocka, Nicole; Gissibl, Timo; Ristok, Simon; Thiele, Simon; Kaganskiy, Arseniy; Strittmatter, André; Heindel, Tobias; Rodt, Sven; Herkommer, Alois; Giessen, Harald; Reitzenstein, Stephan**

Single quantum dot with microlens and 3D-printed micro-objective as integrated bright single-photon source

In: ACS photonics - Washington, DC: ACS, Bd. 4.2017, 6, S. 1327-1332  
[Imp.fact.: 6,756]

**Ga evi , Žarko; Holmes, Mark; Chernysheva, Ekaterina; Müller, Marcus; Torres-Pardo, Almudena; Veit, Peter; Bertram, Frank; Christen, Jürgen; González Calbet, José María; Arakawa, Yasuhiko; Calleja, Enrique; Lazi , Snežana**

Emission of linearly polarized single photons from quantum dots contained in nonpolar, semipolar, and polar sections of pencil-Like InGaN/GaN nanowires

In: ACS photonics - Washington, DC: ACS, Bd. 4.2017, 3, S. 657-664  
[Imp.fact.: 5,404]

**Gella, D.; Maza, D.; Zuriguel, I.; Ashour, Ahmed; Arévalo, R.; Stannarius, Ralf**

Linking bottleneck clogging with flow kinematics in granular materials - the role of silo width

In: Physical review fluids - College Park, MD: APS, Vol. 2.2017, 8, Art. 084304; <http://dx.doi.org/10.1103/physrevfluids.2.084304>

**Harth, Kirsten; Trittel, Torsten; Wegner, Sandra; Stannarius, Ralf**

Cooling of 3D granular gases in microgravity experiments

In: The European physical journal / Web of Conferences - Les Ulis: EDP Sciences, Vol. 140, Section Granular gas, Art. 04008, insgesamt 4 S., 2017

[Konferenz: 8th International Conference on Micromechanics on Granular Media, Powders and Grains 2017, Montpellier, France, July 3-7, 2017]

**Heindel, T.; Thoma, A.; Helversen, M.; Schmidt, M.; Schlehahn, A.; Gschrey, M.; Schnauber, P.; Schulze, J.-H.; Strittmatter, André; Beyer, J.; Rodt, S.; Carmele, A.; Knorr, A.; Reitzenstein, S.**

A bright triggered twin-photon source in the solid state

In: Nature Communications - [London]: Nature Publishing Group UK, Vol. 8.2017, 1, Art. 14870, insgesamt 7 S.  
[Imp.fact.: 12,124]

**Hestroffer, Karine; Lund, Cory; Koksaldi, Onur; Li, Haoran; Schmidt, Gordon; Trippel, Max; Veit, Peter; Bertram, Frank; Lu, Ning; Wang, Qingxiao; Christen, Jürgen; Kim, Moon J.; Mishra, Umesh K.; Keller, Stacia**

Compositionally graded InGaN layers grown on vicinal N-face GaN substrates by plasma-assisted molecular beam epitaxy

In: Journal of crystal growth - Amsterdam [u.a.]: Elsevier, Bd. 465.2017, S. 55-59  
[Imp.fact.: 1,462]

**Holy, V.; Kriegner, D.; Lesnik, A.; Bläsing, Jürgen; Wieneke, M.; Dadgar, Armin; Harcuba, P.**

Observation of individual stacking faults in GaN microcrystals by x-ray nanodiffraction

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 12, Art. 121905, insgesamt 5 S.  
[Imp.fact.: 3,142]

**In, Myung-Ho; Cho, Shinho; Shu, Yunhong; Min, Hoon-Ki; Bernstein, Matt A.; Speck, Oliver; Lee, Kendall H.; Jo, Hang Joon**

Correction of metal-induced susceptibility artifacts for functional MRI during deep brain stimulation

In: NeuroImage: a journal of brain function - Orlando, Fla: Academic Press, Bd. 158.2017, S. 26-36

[Imp.fact.: 5,463]

**In, Myung-Ho; Posnansky, Oleg; Speck, Oliver**

High-resolution distortion-free diffusion imaging using hybrid spin-warp and echo-planar PSF-encoding approach

In: NeuroImage: a journal of brain function - Orlando, Fla: Academic Press, Bd. 148.2017, S. 20-30

[Imp.fact.: 5,463]

**Janiga, Gábor; Stucht, Daniel; Bordás, Róbert; Temmel, Erik; Seidel-Morgenstern, Andreas; Thévenin, Dominique; Speck, Oliver**

Noninvasive 4D flow characterization in a stirred tank via phase-contrast magnetic resonance imaging

In: Chemical engineering & technology: industrial chemistry, plant equipment, process engineering, biotechnology - Weinheim: Wiley-VCH Verl.-Ges, Bd. 40.2017, 7, S. 1370-1327

[Imp.fact.: 2,051]

**Lesnik, Andreas; Hoffmann, Marc P.; Fariza, Aqdas; Bläsing, Jürgen; Witte, Hartmut; Veit, Peter; Hörich, Florian; Berger, Christoph; Hennig, Jonas; Dadgar, Armin; Strittmatter, André**

Properties of C-doped GaN

In: Physica status solidi / B - Weinheim: Wiley-VCH, Vol. 254.2017, 8, Art. 1600708, insgesamt 7 S.

**Leutritz, Tobias; Hilfert, Liane; Busse, Ulrich; Smalla, K.-H.; Speck, Oliver; Zhong, K.**

Contribution of iron and protein contents from rat brain subcellular fractions to MR phase imaging

In: Magnetic resonance in medicine: MRM: an official journal of the International Society for Magnetic Resonance in Medicine - New York, NY [u.a.]: Wiley-Liss, Bd. 77.2017, 5, S. 2028-2039

[Imp.fact.: 3,924]

**Lévay, Sára; Fischer, David; Stannarius, Ralf; Szabó, Balázs; Börzsönyi, Tamás; Török, János**

Frustrated packing in a granular system under geometrical confinement

In: Soft matter - London: Royal Soc. of Chemistry, insges. 9 S., 2017

**Li, Fenfang; Gonzalez-Avila, S. Roberto; Nguyen, Dang Minh; Ohl, Claus-Dieter**

Oscillate boiling from microheaters

In: Physical review fluids - College Park, MD: APS, Vol. 2.2017, 1, Art. 014007; <http://dx.doi.org/10.1103/PhysRevFluids.2.014007>

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**Li, Meng; Demenescu, Liliana Ramona; Colic, Lejla; Metzger, Coraline Danielle; Heinze, Hans-Jochen; Steiner, Johann; Speck, Oliver; Fejtova, Anna; Salvatore, Giacomo; Walter, Martin**

Temporal dynamics of antidepressant ketamine effects on glutamine cycling follow regional fingerprints of AMPA and NMDA receptor densities

In: Neuropsychopharmacology: official publication of the American College of Neuropsychopharmacology - London: Springer Nature, Bd. 42.2017, 6, S. 1201-1209

[Imp.fact.: 6,403]

**Lüsebrink, Falk; Sciarra, Alessandro; Mattern, Hendrik; Yakupov, Renat; Speck, Oliver**

Erratum: T 1-weighted in vivo human whole brain MRI dataset with an ultrahigh isotropic resolution of 250 m

In: Scientific data - London: Nature Publ. Group, Vol. 4.2017, Art. 170062, insgesamt 1 S.

**Lüsebrink, Falk; Sciarra, Alessandro; Mattern, Hendrik; Yakupov, Renat; Speck, Oliver**

T 1-weighted in vivo human whole brain MRI dataset with an ultrahigh isotropic resolution of 250 m

In: Scientific data - London: Nature Publ. Group, Vol. 4.2017, Art. 170032, insgesamt 12 S.

**Ma, Dingyu; Rong, Xin; Zheng, Xiantong; Wang, Weiying; Wang, Ping; Schulz, Tobias; Albrecht, Martin; Metzner, Sebastian; Müller, Mathias; August, Olga; Bertram, Frank; Christen, Jürgen; Jin, Peng; Li, Mo; Zhang, Jian; Yang, Xuelin; Xu, Fujun; Qin, Zhixin; Ge, Weikun; Shen, Bo; Wang, Xinqiang**

Exciton emission of quasi-2D InGaN in GaN matrix grown by molecular beam epitaxy

In: Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Vol. 7.2017, Art. 46420, insgesamt 6 S.

[Imp.fact.: 4,259]

**Maiberg, Matthias; Bertram, Frank; Müller, Mathias; Scheer, Roland**

Theoretical study of time-resolved luminescence in semiconductors. IV. Lateral inhomogeneities

In: Journal of applied physics: AIP's archival journal for significant new results in applied physics - Melville, NY: American Inst. of Physics, Vol. 121.2017, 8, Art. 085703, insgesamt 15 S.

[Imp.fact.: 2,101]

**Maryski, A.; Mrowski, P.; Ryczko, K.; Podemski, P.; Gawarecki, K.; Musiał, A.; Misiewicz, J.; Quandt, D.; Strittmatter, André; Rodt, S.; Reitzenstein, S.; Sk, G.**

Optimizing the InGaAs/GaAs quantum dots for 1.3  $\mu\text{m}$  emission

In: Acta physica Polonica / A - Warsaw: Acad. Inst, Bd. 132.2017, 2, S. 386-389

**May, Kathrin; Eremin, Alexey; Stannarius, Ralf; Szabó, Balázs; Börzsönyi, Tamás; Appel, Ingo; Behrens, Silke; Klein, Susanne**

Exceptionally large magneto-optical response in dispersions of plate-like nanocrystallites and magnetic nanoparticles

In: Journal of magnetism and magnetic materials: MMM - Amsterdam: North-Holland Publ. Co, Bd. 431.2017, S. 79-83

[Imp.fact.: 2,630]

**Mohammadzadeh, Milad; Li, Fenfang; Ohl, Claus-Dieter**

Shearing flow from transient bubble oscillations in narrow gaps

In: Physical review fluids - College Park, MD: APS, Vol. 2.2017, 1, Art. 014301; <http://dx.doi.org/10.1103/PhysRevFluids.2.014301>

[Imp.fact.: 2,014301]

**Monavarian, Morteza; Izyumskaya, Natalia; Müller, Mathias; Metzner, Sebastian; Veit, Peter; Das, Saikat; Özgür, Ümit; Bertram, Frank; Christen, Jürgen; Morkoç, Hadis; Avrutin, Vitaly**

Effect of nano-porous SiN<sub>x</sub> interlayer on propagation of extended defects in semipolar (1122)-orientated GaN

In: Physica status solidi / C: pss - Berlin: Wiley-VCH, Vol. 14.2017, 8, Art. 1700024, insgesamt 5 S.

[Special Issue: 9 International Workshop on Nitride Semiconductors (IWN2016)]

**Nádasi, Hajnalka; Stannarius, Ralf; Eremin, Alexey; Ito, Atsuki; Ishikawa, Ken; Haba, Osamu; Yonetake, Koichiro; Takezoe, Hideo; Araoka, Fumito**

Photomanipulation of the anchoring strength using a spontaneously adsorbed layer of azo dendrimers

In: Physical chemistry, chemical physics: PCCP; a journal of European chemical societies - Cambridge: RSC Publ, Bd. 19.2017, 11, S. 7597-7606

[Imp.fact.: 4,449]

**Neugebauer, S.; Hoffmann, M. P.; Witte, Hartmut; Bläsing, Jürgen; Dadgar, Armin; Strittmatter, André; Niermann, T.; Narodovitch, M.; Lehmann, M.**

All metalorganic chemical vapor phase epitaxy of p/n-GaN tunnel junction for blue light emitting diode applications

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 10, Art. 102104, insgesamt 5 S.

[Imp.fact.: 3,142]

**Niederschuh, Sandra J.; Helbig, Thomas; Zimmermann, Klaus; Schmidt, Manuela; Witte, Hartmut**

Kinematic response in limb and body posture to sensory feedback from carpal sinus hairs in the rat (*Rattus norvegicus*)

In: Zoology - Amsterdam [u.a.]: Elsevier, Bd. 121.2017, S. 18-34

[Imp.fact.: 1,510]

**Poliani, Emanuele; Wagner, Markus R.; Vierck, Asmus; Herziger, Felix; Nenstiel, Christian; Gannott, Florentina;**

**Schweiger, Manuel; Fritze, Stephanie; Dadgar, Armin; Zaumseil, Jana; Krost, Alois; Hoffmann, Axel; Maultzsch, Janina**  
Breakdown of far-field raman selection rules by light-plasmon coupling demonstrated by tip-enhanced raman scattering

In: The journal of physical chemistry letters - Washington, DC: ACS, Bd. 8.2017, 22, S. 5462-5471  
[Imp.fact.: 9,353]

**Prozheeva, V.; Makkonen, I.; Cuscó, R.; Artús, L.; Dadgar, Armin; Plazaola, F.; Tuomisto, F.**

Radiation-induced alloy rearrangement in In<sub>x</sub>Ga<sub>1-x</sub>N

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 13, Art. 132104, insgesamt 5 S.  
[Imp.fact.: 3,411]

**Reddig, Annika; Fatahi, Mahsa; Roggenbuck, Dirk; Ricke, Jens; Reinhold, Dirk; Speck, Oliver; Friebe, Björn**

Impact of in vivo high-field-strength and ultra-high-field-strength MR imaging on DNA double-strand-break formation in human lymphocytes

In: Radiology - Oak Brook, Ill: Soc, Bd. 282.2017, 3, S. 782-789  
[Imp.fact.: 7,296]

**Reuter, Fabian; Gonzalez-Avila, Silvestre Roberto; Mettin, Robert; Ohl, Claus-Dieter**

Flow fields and vortex dynamics of bubbles collapsing near a solid boundary

In: Physical review fluids - College Park, MD: APS, Vol. 2.2017, 6, Art. 064202; <http://dx.doi.org/10.1103/PhysRevFluids.2.064202>

**Sebastián, Nerea; Belau, Sebastian; Eremin, Alexey; Alaasar, Mohamed; Prehm, Marko; Tschierske, Carsten**

Emergence of polar order and tilt in terephthalate based bent-core liquid crystals

In: Physical chemistry, chemical physics: PCCP; a journal of European chemical societies - Cambridge: RSC Publ, Bd. 19.2017, 8, S. 5895-5905  
[Imp.fact.: 4,449]

**Segura, A.; Artús, L.; Cuscó, R.; Goldhahn, Rüdiger; Feneberg, Martin**

Band gap of corundumlike -Ga<sub>20</sub>3 determined by absorption and ellipsometry determined by absorption and ellipsometry

In: Physical review materials - College Park, MD: APS, Vol. 1.2017, 2, Art. 024604; <http://dx.doi.org/10.1103/PhysRevMaterials.1.024604>

**Sengupta, Ayan; Yakupov, Renat; Speck, Oliver; Pollmann, Stefan; Hanke, Michael**

The effect of acquisition resolution on orientation decoding from V1 BOLD fMRI at 7 Tesla

In: NeuroImage: a journal of brain function - Orlando, Fla: Academic Press, Bd. 148.2017, S. 64-76  
[Imp.fact.: 5,463]

**Sengupta, Ayan; Yakupov, Renat; Speck, Oliver; Pollmann, Stefan; Hanke, Michael**

Ultra high-field (7 Tesla) multi-resolution fMRI data for orientation decoding in visual cortex

In: Data in Brief - Amsterdam [u.a.]: Elsevier, insges. 4 S., 2017

**Stannarius, Ralf**

Magnetic resonance imaging of granular materials

In: Review of scientific instruments: a monthly journal devoted to scientific instruments, apparatus, and techniques - [S.I.]: American Institute of Physics, Vol. 88.2017, 5, Art. 051806  
[Imp.fact.: 1,336]

**Stannarius, Ralf; Eremin, Alexey; Harth, Kirsten**

Stripe instabilities in menisci of free-standing smectic films with a direct transition from smectic C to an isotropic or nematic phase

In: Liquid crystals: an international journal of science and technology - London [u.a.]: Taylor and Francis, insges. 6 S., 2017  
[Imp.fact.: 2,244]

**Stannarius, Ralf; Fischer, David; Börzsönyi, T.**

Heaping and secondary flows in sheared granular materials

In: The European physical journal / Web of Conferences - Les Ulis: EDP Sciences, Vol. 140, Section Granular flow, Art. 03025, insgesamt 4 S., 2017

[Konferenz: 8th International Conference on Micromechanics on Granular Media, Powders and Grains 2017, Montpellier, France, July 3-7, 2017]

**Storozhenko, A. M.; Stannarius, Ralf; Tantsyura, A. O.; Shabanova, I. A.**

Measurement of the torque on diluted ferrofluid samples in rotating magnetic fields

In: Journal of magnetism and magnetic materials: MMM - Amsterdam: North-Holland Publ. Co, Bd. 431.2017, S. 66-69  
[Imp.fact.: 2,630]

**Strauß, Max; Kaganskiy, Arseniy; Voigt, Robert; Schnauber, Peter; Schulze, Jan-Hendrik; Rodt, Sven; Strittmatter, André; Reitzenstein, Stephan**

Resonance fluorescence of a site-controlled quantum dot realized by the buried-stressor growth technique

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 11, Art. 111101, insgesamt 5 S.  
[Imp.fact.: 3,142]

**Thoma, A.; Schnauber, P.; Böhm, J.; Gschrey, M.; Schulze, J.-H.; Strittmatter, André; Rodt, S.; Heindel, T.; Reitzenstein, S.**

Two-photon interference from remote deterministic quantum dot microlenses

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 1, Art. 011104; <http://dx.doi.org/10.1063/1.4973504>

[Imp.fact.: 3,142]

**Török, János; Lévay, Sára; Szabó, Balázs; Somfai, Ellák; Wegner, Sandra; Stannarius, Ralf; Börzsönyi, Tamás**

Arching in three-dimensional clogging

In: The European physical journal / Web of Conferences - Les Ulis: EDP Sciences, Vol. 140, Section Granular flow, Art. 03076, insgesamt 4 S., 2017

[Konferenz: 8th International Conference on Micromechanics on Granular Media, Powders and Grains 2017, Montpellier, France, July 3-7, 2017]

**Trittel, Torsten; Harth, Kirsten; Stannarius, Ralf**

Mechanical excitation of rodlike particles by a vibrating plate

In: Physical review - Woodbury, NY: Inst, Vol. 95.2017, 6, Art. 062904; <http://dx.doi.org/10.1103/physreve.95.062904>

[Imp.fact.: 2,366]

**Trittel, Torsten; Harth, Kirsten; Stannarius, Ralf**

Smectic C to Smectic A transition induced mechanically by rupture of freely suspended liquid crystal films

In: Soft matter - London: Royal Soc. of Chemistry, 2017; <http://dx.doi.org/10.1039/C7SM00219J>

[Imp.fact.: 3,798]

**Wunderer, Thomas; Yang, Zhihong; Feneberg, Martin; Batres, Max; Teepe, Mark; Johnson, Noble**

Structural and optical characterization of AlGaIn multiple quantum wells grown on semipolar (20-21) bulk AlN substrate

In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 110.2017, 11, Art. 111101; <http://dx.doi.org/10.1063/1.4985156>

[Imp.fact.: 3,142]

**Yakupov, Renat; Lei, Juan; Hoffmann, Michael; Speck, Oliver**

False fMRI activation after motion correction

In: Human brain mapping - New York, NY: Wiley-Liss, Bd. 38.2017, 9, S. 4497-4510

[Imp.fact.: 4,530]

**Yarach, Uten; In, Myung-Ho; Chatnuntaweck, Itthi; Bilgic, Berkin; Godenschweger, Frank; Mattern, Hendrik; Sciarra,**

**Alessandro; Speck, Oliver**

Model-based iterative reconstruction for single-shot EPI at 7T - Model-Based Reconstruction for Single-Shot EPI  
In: Magnetic resonance in medicine: MRM: an official journal of the International Society for Magnetic Resonance in Medicine - New York, NY [u.a.]: Wiley-Liss, Bd. 78.2017, 6, S. 2250-2264  
[Imp.fact.: 3,924]

**Zhang, Yuhao; Piedra, Daniel; Sun, Min; Hennig, Jonas; Dadgar, Armin; Yu, Lili; Palacios, Tomás**

High-performance 500 V quasi- and fully-vertical GaN-on-Si pn diodes  
In: IEEE electron device letters: a publication of the IEEE Electron Devices Society - New York, NY: IEEE, Bd. 38.2017, 2, S. 248-251  
[Imp.fact.: 3,048]

**Zhang, Yuhao; Sun, Min; Piedra, Daniel; Hennig, Jonas; Dadgar, Armin; Palacios, Tomás**

Reduction of on-resistance and current crowding in quasi-vertical GaN power diodes  
In: Applied physics letters - Melville, NY: American Inst. of Physics, Vol. 111.2017, 16, Art. 163506, insgesamt 5 S.  
[Imp.fact.: 3,411]

**Begutachtete Buchbeiträge**

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