

## Peer Reviewed Publications, Univ.-Prof. Dr. Andrii V. Chumak

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=8219595500>  
Researcher ID: <http://www.researcherid.com/rid/N-1395-2013>  
Google Scholar: <https://scholar.google.de/citations?user=h8XwXewAAAAJ&hl=en>  
ORCID: [0000-0001-5515-0848](https://orcid.org/0000-0001-5515-0848)

Book chapters: 3  
Invited reviews: 11  
Peer reviewed articles: 106 (+ 1 accepted, +2 submitted)  
Contributions (presenting): 125 (57 invited talks and lectures, 28 invited seminars)  
Scopus: h-index = 48, 1565 citations in 2022, 9949 in total

### Book Chapters

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1. *Magnon spintronics: Fundamentals of magnon-based computing*  
A. V. Chumak  
In: [Spintronics Handbook: Spin Transport and Magnetism](#), Second Edition, E. Y. Tsymbal and I. Žutić (eds.), CRC Press, Boca Raton, Florida), Chapter 6, pp. 247-302, (2019) ISBN 9781498769723 - CAT# K29316
2. *Magnon spintronics*  
A.D. Karenowska, A.V. Chumak, A.A. Serga, and B. Hillebrands in [Handbook of Spintronics](#), Y. Xu, D.D. Awschalom, J. Nitta (eds.), Springer, pp. 1505-1549 (2015) ISBN 978-94-007-6891-8
3. *The dynamic magnonic crystal: New horizons in artificial crystal based signal processing*  
A.V. Chumak, A.D. Karenowska, A.A. Serga, and B. Hillebrands  
In: Topics in Applied Physics, Vol.125: [Magnonics From Fundamentals to Applications](#), S.O. Demokritov and A.N. Slavin (eds.), Springer, pp. 243-255 (2012) ISBN 978-3-642-30247-3

### List of Submitted Articles

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- *Nanoscaled magnon transistor based on stimulated three-magnon splitting*  
X. Ge, R. Verba, P. Pirro, A.V. Chumak, Q. Wang  
[arXiv:2311.18479](#)
- *Perspective on Nanoscaled Magnonic Networks*  
Q. Wang, G. Csaba, R. Verba, A. V. Chumak, P. Pirro  
[arXiv:2311.06129](#)
- *Unidirectional propagation of zero-momentum magnons*  
O. Wojewoda, J. Holobrádek, D. Pavelka, E. Pribytova, J. Krčma, J. Klíma, J. Michalička, T.

Lednický, A. V. Chumak, M. Urbánek

[arXiv:2311.10044](https://arxiv.org/abs/2311.10044)

## List of Accepted Peer-Reviewed Articles

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- *Roadmap for Unconventional Computing with Nanotechnology*  
G. Finocchio, S. Bandyopadhyay, P. Lin, G. Pan, J. J. Yang, R. Tomasello, C. Panagopoulos, M. Carpentieri, V. Puliafito, J. Åkerman, H. Takesue, A. Ranjan Trivedi, S. Mukhopadhyay, K. Roy, V. K. Sangwan, M. C. Hersam, A. Giordano, H. Yang, J. Grollier, K. Camsari, P. McMahan, S. Datta, J. A. Incorvia, J. Friedman, S. Cotofana, F. Ciubotaru, A. V. Chumak, A. J. Naeemi, B. Kumar Kaushik, Y. Zhu, K. Wang, B. Koiller, G. Aguilar, G. Temporão, K. Makasheva, A. Todri-Sanial, J. Hasler, W. Levy, V. Roychowdhury, S. Ganguly, A. Ghosh, D. Rodriguez, S. Sunada, K. Evershor-Sitte, A. Lal, S. Jadhav, M. Di Ventra, Y. Pershin, K. Tatsumura, H. Goto  
[arXiv:2301.06727](https://arxiv.org/abs/2301.06727)

## List of Published Peer Reviewed Articles

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1. *Offset-free magnetic field sensor based on a standing spin wave*  
M. Gattringer, C. Abert, Q. Wang, A. Chumak, and D. Suess  
[Phys. Rev. Appl. \*\*20\*\*, 044083 \(2023\)](https://doi.org/10.1103/PhysRevApplied.20.044083) DOI: 10.1103/PhysRevApplied.20.044083
2. *Stimulated amplification of propagating spin waves*  
D. Breitbach, M. Schneider, F. Kohl, L. Scheuer, B. Heinz, R. O. Serha, J. Maskill, T. Brächer, B. Lägél, C. Dubs, V. S. Tiberkevich, A. N. Slavin, A. A. Serga, B. Hillebrands, A. V. Chumak, P. Pirro  
[Phys. Rev. Lett. \*\*131\*\*, 156701 \(2023\)](https://doi.org/10.1103/PhysRevLett.131.156701) DOI: 10.1103/PhysRevLett.131.156701
3. *Deeply nonlinear excitation of self-normalized short spin waves*  
Q. Wang, R. Verba, B. Heinz, M. Schneider, O. Wojewoda, K. Davidková, K. Levchenko, C. Dubs, N. J. Mauser, M. Urbánek, P. Pirro, A. V. Chumak  
[Sci. Adv. \*\*9\*\*, eadg4609 \(2023\)](https://doi.org/10.1126/sciadv.adg4609) DOI: 10.1126/sciadv.adg4609
4. *Generation of Spin-Wave Pulses by Inverse Design*  
S. Casulleras, S. Knauer, Q. Wang, O. Romero-Isart, A. V. Chumak, C. Gonzalez-Ballester  
[Phys. Rev. Applied \*\*19\*\*, 064085 \(2023\)](https://doi.org/10.1103/PhysRevApplied.19.064085) DOI: 10.1103/PhysRevApplied.19.064085
5. *Vortex counting and velocimetry at slitted superconducting thin strips*  
V. M. Bevez, M. Yu. Mikhailov, B. Budinska, S. Lamb-Camarena, S. O. Shpilinska, A. V. Chumak, M. Urbánek, M. Arndt, W. Lang, O. V. Dobrovolskiy  
[Phys. Rev. Applied \*\*19\*\*, 034098 \(2023\)](https://doi.org/10.1103/PhysRevApplied.19.034098) DOI: 10.1103/PhysRevApplied.19.034098
6. *Propagating spin-wave spectroscopy in nanometer-thick YIG films at millikelvin temperatures*  
S. Knauer, K. Davidková, D. Schmoll, R. O. Serha, A. Voronov, Q. Wang, R. Verba, O. V. Dobrovolskiy, M. Lindner, T. Reimann, C. Dubs, M. Urbánek, A. V. Chumak  
[J. of Appl. Phys. \*\*133\*\*, 143905 \(2023\)](https://doi.org/10.1063/5.0137437) DOI: 10.1063/5.0137437

7. *Numerical model for 32-bit magnonic ripple carry adder*  
U. Garlando, Q. Wang, O. V. Dobrovolskiy, A. V. Chumak, F. Riente  
[IEEE Trans. Emerging Topics in Computing, 1 \(2023\)](#) DOI: 10.1109/TETC.2023.3238581
8. *A micromagnetic-integrated numerical model of spin pumping, based on spin diffusion*  
M. Gattringer, C. Abert, F. Bruckner, A. Chumak, D. Suess  
[Phys. Rev. B 106, 024417 \(2022\)](#) DOI: 10.1103/PhysRevB.106.024417
9. *Advances in Magnetics Roadmap on Spin-Wave Computing*  
A. V. Chumak, P. Kabos, M. Wu, C. Albert, C. Adelman, A. Adeyeye, J. Åkerman, F. G. Aliev, A. Anane, A. Awad, C. H. Back, A. Barman, G. E. W. Bauer, M. Becherer, E. N. Beginin, V. A. S. V. Bittencourt, Y. M. Blanter, P. Bortolotti, I. Boventer, D. A. Bozhko, S. A. Bunyaev, J. J. Carmiggelt, R. R. Cheenikundil, F. Ciubotaru, S. Cotofana, G. Csaba, O. V. Dobrovolskiy, C. Dubs, M. Elyasi, K. G. Fripp, H. Fulara, I. A. Golovchanskiy, C. Gonzalez-Ballester, P. Graczyk, D. Grundler, P. Gruszecki, G. Gubbiotti, K. Guslienko, A. Haldar, S. Hamdioui, R. Hertel, B. Hillebrands, T. Hioki, A. Houshang, C.-M. Hu, H. Huebl, M. Huth, E. Iacocca, M. B. Jungfleisch, G. N. Kakazei, A. Khitun, R. Khymyn, T. Kikkawa, M. Kläui, O. Klein, J. W. Kłos, S. Knauer, S. Koraltan, M. Kostylev, M. Krawczyk, I. N. Krivorotov, V. V. Kruglyak, D. Lachance-Quirion, S. Ladak, R. Lebrun, Y. Li, M. Lindner, R. Macêdo, S. Mayr, G. A. Melkov, S. Mieszczak, Y. Nakamura, H. T. Nembach, A. A. Nikitin, S. A. Nikitov, V. Novosad, J. A. Otalora, Y. Otani, A. Papp, B. Pigeau, P. Pirro, W. Porod, F. Porrati, H. Qin, B. Rana, T. Reimann, F. Riente, O. Romero-Isart, A. Ross, A. V. Sadovnikov, A. R. Safin, E. Saitoh, G. Schmidt, H. Schultheiss, K. Schultheiss, A.A. Serga, S. Sharma, J. M. Shaw, D. Suess, O. Surzhenko, K. Szulc, T. Taniguchi, M. Urbánek, K. Usami, A. B. Ustinov, T. van der Sar, S. van Dijken, V. I. Vasyuchka, R. Verba, S. Viola Kusminskiy, Q. Wang, M. Weides, M. Weiler, S. Wintz, S. P. Wolski, X. Zhang H. Qin,  
[IEEE Trans. Magn. 58, 0800172 \(2022\)](#) DOI: 10.1109/TMAG.2022.3149664
10. *Parametric generation of spin waves in nanoscaled magnonic conduits*  
B. Heinz, M. Mohseni, A. Lentfert, R. Verba, M. Schneider, B. Lägél, K. Levchenko, T. Brächer, C. Dubs, A. V. Chumak, and P. Pirro  
[Phys. Rev. B 105, 144424 \(2022\)](#) DOI: 10.1103/PhysRevB.105.144424
11. *Rising speed limits for fluxons via edge quality improvement in wide MoSi thin films*  
B. Budinska, B. Aichner, D. Yu. Vodolazov, M. Yu. Mikhailov, F. Porrati, M. Huth, A. V. Chumak, W. Lang, and O. V. Dobrovolskiy  
[Phys. Rev. Applied 17, 034072 \(2022\)](#) DOI: 10.1103/PhysRevApplied.17.034072
12. *Fast long-wavelength exchange spin waves in partially-compensated Ga:YIG*  
T. Böttcher, M. Ruhwedel, K. O. Levchenko, Q. Wang, H. L. Chumak, M. A. Popov, I. V. Zavislyak, C. Dubs, O. Surzhenko, B. Hillebrands, A. V. Chumak, P. Pirro  
[Appl. Phys. Lett. 120, 102401 \(2022\)](#) DOI: 10.1063/5.0082724
13. *Merging of spin-wave modes in obliquely magnetized circular nanodots*  
J. Kharlan, V. Borynskyi, S. A. Bunyaev, P. Bondarenko, O. Salyuk, V. Golub, A. A. Serga, O. V. Dobrovolskiy, A. Chumak, R. Verba, and G. N. Kakazei  
[Phys. Rev. B 105, 014407 \(2022\)](#) DOI: 10.1103/PhysRevB.105.014407
14. *Nonreciprocal magnon fluxonics upon ferromagnet/superconductor hybrids*  
O. V. Dobrovolskiy and A. V. Chumak  
[J. Magn. Magnet. Mater. 543, 168633 \(2022\)](#) DOI: 10.1016/j.jmmm.2021.168633

15. *Control of the Bose-Einstein condensation of magnons by the Spin Hall effect*  
M. Schneider, D. Breitbach, R. Serha, Q. Wang, A. A. Serga, A. N. Slavin, V. S. Tiberkevich, B. Heinz, B. Lägel, T. Brächer, C. Dubs, S. Knauer, O. V. Dobrovolskiy, P. Pirro, B. Hillebrands, and A. V. Chumak  
[Phys. Rev. Lett. \*\*127\*\*, 237203](#) DOI: 10.1103/PhysRevLett.127.237203
16. *Spin-wave dispersion measurement by variable-gap propagating spin-wave spectroscopy*  
M. Vaňatka, K. Szulc, O. Wojewoda, C. Dubs, A. V. Chumak, M. Krawczyk, O. V. Dobrovolskiy, J. W. Kłos, and M. Urbánek  
[Phys. Rev. Appl. \*\*16\*\*, 054033 \(2021\)](#) DOI: 10.1103/PhysRevApplied.16.054033
17. *Stabilization of a nonlinear bullet coexisting with a Bose-Einstein condensate in a rapidly cooled magnonic system driven by a spin-orbit torque*  
M. Schneider, D. Breitbach, R. O. Serha, Q. Wang, M. Mohseni, A. A. Serga, A. N. Slavin, V. S. Tiberkevich, B. Heinz, T. Brächer, B. Lägel, C. Dubs, S. Knauer, O. V. Dobrovolskiy, P. Pirro, B. Hillebrands, and A. V. Chumak  
[Phys. Rev. B \*\*104\*\*, L140405 \(2021\)](#) DOI: 10.1103/PhysRevB.104.L140405
18. *Tension-free Dirac strings and steered magnetic charges in 3D artificial spin ice*  
S. Koraltan, F. Slanovc, F. Bruckner, C. Nisoli, A.V. Chumak, O.V. Dobrovolskiy, C. Abert, and D. Suess  
[npj Comput Mater \*\*7\*\*, 125 \(2021\)](#) DOI: 10.1038/s41524-021-00593-7
19. *The 2021 Magnonics Roadmap*  
A. Barman, G. Gubbiotti, S. Ladak, A. O. Adeyeye, M. Krawczyk, J. Gräfe, C. Adelman, S. Cotofana, A. Naeemi, V. I. Vasyuchka, B. Hillebrands, S. A. Nikitov, H. Yu, D. Grundler, A. V. Sadovnikov, A. A. Grachev, S. E. Sheshukova, J.-Y. Duquesne, M. Marangolo, G. Csaba, W. Porod, V. E. Demidov, S. Urazhdin, S. O. Demokritov, E. Albisetti, D. Petti, R. Bertacco, H. Schultheiss, V. V. Kruglyak, V. D. Poimanov, S. Sahoo, J. Sinha, H. Yang, M. Münzenberg, T. Moriyama, S. Mizukami, P. Landeros, R. A. Gallardo, G. Carlotti, J.-V. Kim, R. L. Stamps, R. E. Camley, B. Rana, Y. Otani, W. Yu, T. Yu, G. E. W. Bauer, C. Back, G. S. Uhrig, O. V. Dobrovolskiy, B. Budinska, H. Qin, S. van Dijken, A. V. Chumak, A. Khitun, D. E. Nikonov, I. A. Young, B. W. Zingsem, and M. Winklhofer,  
[J. Phys.: Condens. Matter \*\*33\*\*, 413001 \(2021\)](#) DOI: 10.1088/1361-648X/abec1a
20. *Inverse-design magnonic devices*  
Q. Wang, A. V. Chumak, and P. Pirro  
[Nat. Commun. \*\*12\*\*, 2636 \(2021\)](#) DOI: 10.1038/s41467-021-22897-4
21. *Spin-wave eigenmodes in direct-write 3D nanovolcanoes*  
O. V. Dobrovolskiy, N. R. Vovk, A. V. Bondarenko, S. A. Bunyaev, S. Lamb-Camarena, N. Zenbaa, R. Sachser, S. Barth, K. Y. Guslienko, A. V. Chumak, M. Huth, and G. N. Kakazei  
[Appl. Phys. Lett. \*\*118\*\*, 132405 \(2021\)](#) DOI: 10.1063/5.0044325
22. *Long-range spin-wave propagation in transversely magnetized nano-scaled conduits*  
B. Heinz, Q. Wang, M. Schneider, E. Weiß, A. Lentfert, B. Lägel, T. Brächer, C. Dubs, O. V. Dobrovolskiy, P. Pirro, and A. V. Chumak  
[Appl. Phys. Lett. \*\*118\*\*, 132406 \(2021\)](#) DOI: 10.1063/5.0045570
23. *Controlling the nonlinear relaxation of quantized propagating magnons in nanodevices*  
M. Mohseni, Q. Wang, B. Heinz, M. Kewenig, M. Schneider, F. Kohl, B. Lägel, C. Dubs,

- A. V. Chumak, and P. Pirro  
[Phys. Rev. Lett. \*\*126\*\*, 097202 \(2021\)](#) DOI: 10.1103/PhysRevLett.126.097202
24. *Engineered magnetization and exchange stiffness in direct-write Co-Fe nanoelements*  
S. A. Bunyaev, B. Budinska, R. Sachser, Q. Wang, K. Levchenko, S. Knauer, A. V. Bondarenko, M. Urbanek, K. Y. Guslienko, A. V. Chumak, M. Huth, G. N. Kakazei, and O. V. Dobrovolskiy  
[Appl. Phys. Lett. \*\*118\*\*, 022408 \(2021\)](#) DOI: 10.1063/5.0036361
25. *Temperature dependence of spin pinning and spin-wave dispersion in nanoscopic ferromagnetic waveguides*  
B. Heinz, Q. Wang, R. Verba, V. I. Vasyuchka, M. Kewenig, P. Pirro, M. Schneider, T. Meyer, B. Lägel, C. Dubs, T. Brächer, O. V. Dobrovolskiy, and A. V. Chumak  
[Ukr. J. Phys. \*\*65\*\*, 1094 \(2020\)](#) DOI: 10.15407/ujpe65.12.1094
26. *A nonlinear magnonic nano-ring resonator*  
Q. Wang, A. Hamadeh, R. Verba, V. Lomakin, M. Mohseni, B. Hillebrands, A. V. Chumak, and P. Pirro  
[npj Comput. Mater. \*\*6\*\*, 192 \(2020\)](#) DOI: 10.1038/s41524-020-00465-6
27. *Introduction to spin wave computing (Tutorial Article)*  
A. Mahmoud, F. Ciubotaru, F. Vanderveken, A. V. Chumak, S. Hamdioui, C. Adelman, and S. Cotofana  
[J. Appl. Phys. \*\*128\*\*, 161101 \(2020\)](#) DOI: 10.1063/5.0019328
28. *A magnonic directional coupler for integrated magnonic half-adders*  
Q. Wang, M. Kewenig, M. Schneider, R. Verba, F. Kohl, B. Heinz, M. Geilen, M. Mohseni, B. Lägel, F. Ciubotaru, C. Adelman, C. Dubs, S. D. Cotofana, O. V. Dobrovolskiy, T. Brächer, P. Pirro, and A. V. Chumak,  
[Nat. Electronics \*\*3\*\*, 765 \(2020\)](#) DOI: 10.1038/s41928-020-00485-6
29. *Spin-wave spectroscopy of individual ferromagnetic nanodisks*  
O. V. Dobrovolskiy, S. A. Bunyaev, N. R. Vovk, D. Navas, P. Gruszecki, M. Krawczyk, R. Sachser, M. Huth, A. V. Chumak, K. Y. Guslienko, and G. N. Kakazei  
[Nanoscale \*\*12\*\*, 21207 \(2020\)](#) DOI: 10.1039/D0NR07015G
30. *Opportunities and challenges for spintronics in the microelectronics industry*  
B. Dieny, I. L. Prejbeanu, K. Garello, P. Gambardella, P. Freitas, R. Lehndorff, W. Raberg, U. Ebels, S.O. Demokritov, J. Akerman, A. Deac, P. Pirro, C. Adelman, A. Anane, A. V. Chumak, A. Hirohata, S. Mangin, S. O. Valenzuela, M. Cengiz Onbaşlı, M. d'Aquino, G. Prenat, G. Finocchio, L. Lopez-Diaz, R. Chantrell, O. Chubykalo-Fesenko, and P. Bortolotti  
[Nat. Electr. \*\*3\*\*, 446 \(2020\)](#) DOI: 10.1038/s41928-020-0461-5
31. *Ultra-fast vortex motion in a direct-write Nb-C superconductor*  
O. V. Dobrovolskiy, D. Yu. Vodolazov, F. Porrati, R. Sachser, V. M. Bevez, M. Yu. Mikhailov, A. V. Chumak, and M. Huth  
[Nat. Commun. \*\*11\*\*, 3291 \(2020\)](#) DOI: 10.1038/s41467-020-16987-y
32. *Propagation of coherent spin-wave packets in individual nanosized yttrium iron garnet magnonic conduits*  
B. Heinz, T. Brächer, M. Schneider, Q. Wang, B. Lägel, A. M. Friedel, D. Breitbach, S. Steinert, T. Meyer, M. Kewenig, C. Dubs, P. Pirro, and A. V. Chumak  
[Nano Lett. \*\*20\*\*, 4220 \(2020\)](#) DOI: 10.1021/acs.nanolett.0c00657

33. *Bose–Einstein condensation of quasiparticles by rapid cooling*  
M. Schneider, T. Brächer, D. Breitbach, V. Lauer, P. Pirro, D. A. Bozhko, H. Yu. Musiienko-Shmarova, B. Heinz, Q. Wang, T. Meyer, F. Heussner, S. Keller, E. Th. Papaioannou, B. Lägel, T. Löber, C. Dubs, A. N. Slavin, V. S. Tiberkevich, A. A. Serga, B. Hillebrands, and A. V. Chumak  
[Nat. Nanotech. \*\*15\*\*, 457 \(2020\)](#) DOI: 10.1038/s41565-020-0671-z
34. *Parametric generation of propagating spin waves in ultrathin yttrium iron garnet waveguides*  
M. Mohseni, M. Kewenig, R. Verba, Q. Wang, M. Schneider, B. Heinz, C. Dubs, A. A. Serga, B. Hillebrands, A. V. Chumak, and P. Pirro  
[Phys. Status Solidi \(RRL\) \*\*14\*\*, 2000011 \(2020\)](#) DOI: 10.1002/pssr.202000011
35. *Magnon-phonon interactions in magnon spintronics (review)*  
D. A. Bozhko, V. I. Vasyuchka, A. V. Chumak, and A. A. Serga  
[Low Temp. Phys. \*\*46\*\*, 383 \(2020\)](#) DOI: 10.1063/10.0000872
36. *Reflection-less width-modulated magnonic crystal*  
P. Frey, A. A. Nikitin, D. A. Bozhko S. A. Bunyaev, G. N. Kakazei, A. V. Ustinov, B. A. Kalinikos, F. Ciubotaru, A. Chumak, Q. Wang, V. Tiberkevich, B. Hillebrands, and A. A. Serga  
Physics Communications (in press)  
[Commun. Phys. \*\*3\*\*, 17 \(2020\)](#) DOI: 10.1038/s42005-020-0281-y
37. *Recent trends in microwave magnetism and superconductivity (review)*  
O. V. Prokopenko, D. A. Bozhko, V. S. Tyberkevych, A. V. Chumak, V. I. Vasyuchka, A. A. Serga, O. Dzyapko, R. V. Verba, A. V. Talalaevskij, D. V. Slobodianiuk, Yu. V. Kobljanskyj, V. A. Moiseienko, S. V. Sholom, and V. Yu. Malyshev  
[Ukr. J. Phys. \*\*64\*\*, 888 \(2019\)](#) DOI: 10.15407/ujpe64.10.888
38. *Nanoscale spin-wave wake-up receiver*  
Q. Wang, T. Brächer, M. Mohseni, B. Hillebrands, V. I. Vasyuchka, A. V. Chumak, and P. Pirro  
[Appl. Phys. Lett. \*\*115\*\*, 092401 \(2019\)](#) DOI: 10.1063/1.5109623
39. *Spin pinning and spin-wave dispersion in nanoscopic ferromagnetic waveguides*  
Q. Wang, B. Heinz, R. Verba, M. Kewenig, P. Pirro, M. Schneider, T. Meyer, B. Lägel, C. Dubs, T. Brächer, and A. V. Chumak  
[Phys. Rev. Lett. \*\*122\*\*, 247202 \(2019\)](#) DOI: 10.1103/PhysRevLett.122
40. *Magnon-Fluxon interaction in a ferromagnet/superconductor heterostructure*  
O. V. Dobrovolskiy, R. Sachser, T. Brächer, T. Fischer, V. V. Kruglyak, R. V. Vovk, V. A. Shklovskij, M. Huth, B. Hillebrands, and A. V. Chumak  
[Nat. Phys. \*\*15\*\*, 477 \(2019\)](#) DOI: 10.1038/s41567-019-0428-5
41. *Direct Observation of Spin Diffusion-Enhanced Non-Adiabatic Spin Torque Effects in Rare-Earth-Doped Permalloy*  
P. Krautscheid, R. Reeve, D. Schönke, I. Boverter, A. Conca, A. Chumak, B. Hillebrands, J. Ehrler, J. Osten, J. Fassbender, and M. Kläui  
[Phys. Rev. B \*\*98\*\*, 214406 \(2018\)](#) DOI: 10.1103/PhysRevB.98.214406
42. *Spin-wave propagation through a magnonic crystal in a thermal gradient*  
T. Langner, D. A. Bozhko, S. A. Bunyaev, G. N. Kakazei, A. V. Chumak, A. A. Serga, B. Hillebrands, and V. I. Vasyuchka  
[J. Phys. D: Appl. Phys. \*\*51\*\*, 344002 \(2018\)](#) DOI: 10.1088/1361-6463/aad2ac

43. *Control of spin-wave propagation using magnetisation gradients*  
M. Vogel, R. Aßmann, P. Pirro, A. V. Chumak, B. Hillebrands, and G. von Freymann  
[Sci. Rep. 8, 11099 \(2018\)](#) DOI: 10.1038/s41598-018-29191-2
44. *Reconfigurable nano-scale spin-wave directional coupler*  
Q. Wang, P. Pirro, R. Verba, A. Slavin, B. Hillebrands, and A. V. Chumak  
[Sci. Adv. 4, e1701517 \(2018\)](#) DOI: 10.1126/sciadv.1701517
45. *Magnonics: spin waves connecting charges, spins and photons (review)*  
A. V. Chumak and H. Schultheiss  
[J. Phys. D: Appl. Phys. 1, 244001 \(2017\)](#) DOI: 10.1088/1361-6463/aa7715
46. *Bottleneck accumulation of hybrid magnetoelastic bosons*  
D. A. Bozhko, P. Clausen, G. A. Melkov, V. S. L'vov, A. Pomyalov, V. I. Vasyuchka, A. V. Chumak, B. Hillebrands, and A. A. Serga  
[Phys. Rev. Lett. 118, 237201 \(2017\)](#) DOI: 10.1103/PhysRevLett.118.237201
47. *Magnonic crystals for data processing (review)*  
A. V. Chumak, A.A. Serga, and B. Hillebrands  
[J. Phys. D: Appl. Phys. 50, 244001 \(2017\)](#) DOI: 10.1088/1361-6463/aa6a65
48. *Voltage-controlled nanoscale reconfigurable magnonic crystal*  
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## List of Non-Peer-Reviewed Articles

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1. *The SpinTronicFactory roadmap: a European community view*  
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2. *Magnetische Materialien nach Maß für die Spintronik*  
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3. *Magnonen für den Computer von Übermorgen*  
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4. *Wave front reversal with frequency conversion in an anisotropic medium*  
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5. *Influence of effective yttrium-iron garnet film parameters on passive delay line characteristics*  
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6. *The investigation of the output pulse profiles of passive and active delay lines for backward volume magnetostatic waves*  
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