

Curriculum Vitae – Jacob Linder

Address: Department of Physics, NTNU
Norwegian University of Science and Technology
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Education

- 2009 **Ph.D** in theoretical physics, NTNU, Norway.
Supervisor: Asle Sudbø. Title: *Quantum transport and proximity effects in unconventional superconducting hybrid structures*.
- 2005 **M.Sc.** (sivilingeniør) in Physics and Mathematics with specialization in theoretical physics, Norwegian University of Science and Technology

Professional Employment

- 2013 – present Professor of Physics, NTNU, Norway.
- 2010 – 2013 Associate Professor, NTNU, Norway.
- 2009 – 2010 Postdoctoral researcher, Norwegian University of Science and Technology.
- 2005 – 2009 Ph.D student with Prof. Asle Sudbø, Norwegian University of Science and Technology.

Major Awards and Grants

- 2025 PI for a FRIPRO research grant (9 mill NOK), Research Council of Norway
- 2022 Voted best lecturer by the students at the Faculty of Natural Sciences and Faculty of Information Technology and Electrical Engineering.
- 2021 Co-PI for a FRIPRO research grant (8 mill. NOK), Research Council of Norway
- 2017 PI in a Center of Excellence grant (200 mill. NOK), Research Council of Norway
- 2016 Finalist for ERC Starting Grant, European Research Council.
- 2014-2018 Outstanding Academic Fellows Programme funding (3 mill. NOK), NTNU
- 2014-2018 Single PI for Young Research Talent grant (6 mill. NOK), Research Council of Norway
- 2012-2017 Co-recipient of Strategic Institute Program grant (12 mill. NOK)
- 2012 American Physical Society Outstanding Referee, APS
- 2010-2016 Main PI for a FRIPRO research grant (7 mill. NOK), Research Council of Norway
- 2010 Yara's Birkeland Prize, national award for best Ph.D degree in physics
- 2010 National award for best Ph.D degree in the natural sciences, The Royal Norwegian Society of Sciences and Letters
- 2010 Award for best Ph.D degree in basic research, ExxonMobil Corporation
- 2009 Faculty prize for best Ph.D degree, Norwegian University of Science and Technology

Publications

Peer-reviewed Scientific Articles

- 2006 – present Published 200+ papers, including 20 papers in Physical Review Letters, Physical Review X, and Reviews of Modern Physics. 8500+ citations with a *h*-index of 46 (Google Scholar, September 2024). These papers thematically fall into various fields of quantum condensed matter theory, including superconductivity, spintronics, and quantum transport.

Peer-reviewed Books and Book Chapters

- 2017 Book. "Introduction to Quantum Mechanics" J. Linder, Bookboon, ISBN: 978-87-403-1814-2.
- 2017 Book. "Intermediate Quantum Mechanics" J. Linder, Bookboon, ISBN: 978-87-403-1783-1.
- 2017 Book. "Introduction to Particle Physics" J. Linder. Bookboon, ISBN: 978-87-403-1704-6.
- 2017 Book chapter. "Spin-orbit interactions, spin currents, and magnetization dynamics in superconductor/ferromagnet hybrids." J. Linder and S. Jacobsen. Published in *Superconductors at the Nanoscale: From Basic Research to Applications*, DeGruyter, 1st edition, ISBN: 978-3-11-045680-6. Editors: R. Wördenweber, V. Moshchalkov, S. Bending, and F. Tafuri.
- 2016 Book chapter. "Superconducting Order in Magnetic Heterostructures." S. Jacobsen, J. A. Ouassou, and J. Linder. Published in *Advanced Magnetic and Optical Material Book Series*, Wiley-Scrivener USA, 1st edition, ISBN: 978-1-119-24191-1.
- 2016 Book. "Introduction to Lagrangian & Hamiltonian Mechanics." J. Linder and I. H. Brevik. Bookboon, ISBN: 978-87-403-1249-2.
- 2010 Book chapter. "Interplay between Ferromagnetism and Superconductivity." J. Linder and A. Sudbø. Published in *Nanoscience and engineering in superconductivity*, Springer Verlag, 1st edition. ISBN: 978-3-642-15136-1. Editors: V. Moschalkov, R. Woerdenweber, and W. Lang.

Invited talks

2007-2024 Invited as speaker to around 100 conferences, workshops, universities, and institutes, such as the IEEE Magnetic Frontiers Conference, International Conference on Superconductivity and Magnetism, the VORTEX conference series, and the Moscow International Symposium and Magnetism.

Supervision

Postdocs Dr. Pavlo Sukhachov (Ph.D Bogolyubov Institute), 2024-2026
Dr. Jabir Ali Ouassou (Ph.D Norwegian University of Science and Technology), 2021-2023
Dr. Sol Jacobsen (Ph.D University of Tasmania), 2014-2018

Ph.D students Erik Hodt (M. Sc NTNU, Trondheim), 2022-present
Johanne Tjernshaugen (M. Sc. NTNU, Trondheim), 2023-present
Karl Hallberg (M. Sc. KTH, Stocholm), 2024-present

Dr. Eirik Fyhn (M. Sc. NTNU, Trondheim), 2019-present
Dr. Lina G. Johnsen (M. Sc. NTNU, Trondheim), 2019-present
Dr. Eirik Erlandsen (M.Sc, NTNU, Trondheim), 2018-2022 [co-supervisor]
Dr. Atousa Ghanbari (M.Sc IUST, Tehran), 2018-2022
Dr. Morten Amundsen (M.Sc. NTNU, Trondheim), 2016-2020
Dr. Øyvind Johansen (M.Sc. NTNU, Trondheim), 2016-2019 [co-supervisor]
Dr. Vetle K. Risinggård (M.Sc. NTNU, Trondheim), 2015-2019
Dr. Jabir Ali Ouassou (M.Sc. NTNU, Trondheim), 2015-2019
Dr. Camilla Espedal (M.Sc. NTNU, Trondheim), 2013-2017 [co-supervisor]
Dr. Daniele Toniolo (M.Sc. University of Padova), 2012-2015
Dr. Iryna Kulagina (M.Sc. Donetsk National University), 2011-2015
Dr. Mohammad Alidoust (M.Sc. University of Isfahan), 2011-2013
Dr. Henrik Enoksen (M.Sc. NTNU, Trondheim), 2010-2013 [co-supervisor]

Master students Supervised ~30 M.Sc students, out of which 15 continued in Ph.D positions and several won awards for best M.Sc. thesis in the natural sciences

Visitors Linde Olde Olthof, visiting Ph.D student from Cambridge, UK (2020)
Tatsuki Hashimoto, visiting Ph.D student from Nagoya, Japan (2016)
Gaetano Annunziata, visiting Ph.D student from Salerno, Italy (2010).

Teaching

2025 – present University lecturer and course responsible in “Solid State Physics, Advanced Course”, NTNU.
2024 – present University lecturer and course responsible in “Particle Physics”, NTNU.
2020 – 2024 University lecturer and course responsible in “Quantum field theory”, NTNU.
2019 – 2021 University lecturer and course responsible in “Electromagnetism”, NTNU.
2017 Published the free eBooks “Introduction to Quantum Mechanics”, “Intermediate Quantum Mechanics”, and “Introduction to Particle Physics”, Bookboon.

2016 – present University lecturer and course responsible in “Quantum Mechanics II”, NTNU.
2016 Published a free eBook on classical mechanics with I. H. Brevik, “Introduction to Lagrangian & Hamiltonian Mechanics”, Bookboon 1st edition, as well as a comprehensive series of YouTube-lectures on classical mechanics available freely online.

2012 – 2015 University lecturer and course responsible in “Particle Physics”, NTNU.
2011 – 2014 University lecturer and course responsible in “Classical Mechanics”, NTNU.
2010 Completed PEDUP pedagogical 6-month course, NTNU.
2005 – 2009 Teaching assistant in several lab courses on experimental physics, including mechanical physics, electromagnetism, and instrumentation/electronics.
2000 – 2005 Teaching assistant in several undergraduate courses on quantum mechanics, mathematics, and electromagnetism.

Professional Activities (selection)

Refereeing Science, Reviews of Modern Physics, Physical Review Letters, Physical Review X, Physical Review B, Nature, Nature Materials, Nature Physics, Nature Communications.

Project Evaluator Reviewer for project applications for the European Research Council, US Department of Energy, National Science Foundation (USA), Deutsche Forschungsgemeinschaft (GER), Israel Science Foundation (ISR), Swiss National Science Foundation (CHE), Portuguese National Funding Agency FCT for Science, Research, and Technology (POR), Czech Science Foundation (CZE), ++

Committees/Boards	<p>Editorial Board Member of Physical Review Letters, Divisional Associate Editor (2024 –).</p> <p>International Scientific Committee, MagTop, Institute of Physics, Polish Academy of Sciences (2023 –).</p> <p>Deputy Director for Center of Excellence QuSpin (2023 –).</p> <p>Editorial Board Member of Scientific Reports (2017 – 2024).</p> <p>Member of the Management Committee for COST Action MP1201 “Novel functionalities through optimized confinement of condensates and fields”, (2012 - 2017).</p> <p>Member of the Nordita Research Committee for Condensed Matter Physics, (2013 - 2017).</p> <p>Editor for Material Physics, Quantum Physics, and Atomic & Nuclear Physics in the Great Norwegian Encyclopedia (2017 – present).</p> <p>Deputy Head of the Section of Theoretical Physics, NTNU (2014 – 2017).</p>
Conference Organizer	<p>Workshop <i>SUPERSPIN15: Superconducting Spintronics</i> (Trondheim, Norway). Organized together with M. Eschrig.</p> <p>Workshop <i>QuSpin 2017</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, J. Wells, and S. Jacobsen.</p> <p>Workshop <i>QuSpin 2018, 2019</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, J. Wells, and Karen-Elisabeth Sødahl.</p> <p>Workshop <i>QuSpin 2021, 2022, 2023, 2024</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, H. Bendtman, and Karen-Elisabeth Sødahl.</p>
Elected Memberships	<p>The Royal Norwegian Society of Science and Letters (DKNVS)</p> <p>Outstanding Academic Fellows programme (NTNU)</p> <p>Norwegian Academy of the Technical Sciences (NTVA)</p>
Outreach Activities	<p>Leader of the Scientific Outreach Committee, Department of Physics, NTNU (2013-2014)</p>

Publication list

~200 papers, 8500+ citations, *h*-index 46 (September 2024).

N. H. Aase, E. Hodt, J. Linder, and A. Sudbø

Orbital currents in lattice multiorbital systems: continuity equation, torques, and RKKY interaction
 Phys. Rev. B 110, 104423 (2024)

P. Sukhachov, E. W. Hodt, and J. Linder

Thermoelectric effect in altermagnet-superconductor junctions
 Phys. Rev. B 110, 094508 (2024)

E. Hodt, C. Cirillo, A. Di Bernardo, C. Attanasio, and J. Linder

Critical temperature of triplet superconductor-ferromagnet bilayers as a probe for pairing symmetry
 Phys. Rev. B 110, 094512 (2024)

L. J. Kamra, B. Lu, J. Linder, Y. Tanaka, and N. Nagaosa

Optical conductivity of the Majorana mode at the *s*- and *d*-wave topological superconductor edge
 Proc. Natl. Acad. Sci 121, e2404009121 (2024)

E. Hodt, P. Sukhachov, and J. Linder

Interface-induced magnetization in altermagnets and antiferromagnets
 Phys. Rev. B 110, 054446 (2024)

M. Amundsen, A. Brataas, and J. Linder

RKKY interaction in Rashba altermagnets
 Phys. Rev. B 110, 054427 (2024)

C. Sun and J. Linder

Supercurrent-induced spin switching via indirect exchange interaction
 Phys. Rev. B 109, 214409 (2024)

E. Hodt and J. Linder

Spin pumping in an altermagnet/normal metal bilayer
 Phys. Rev. B 109, 174438 (2024)

L. J. Kamra and J. Linder

Inverse spin-Hall effect and spin-swapping in spin-split superconductors

Phys. Rev. Lett. 132, 226002 (2024)

M. Amundsen, J. Linder, J. W. A. Robinson, I. Zutic, and N. Banerjee

Colloquium: Spin-orbit effects in superconducting hybrid structures

Rev. Mod. Phys. 96, 021003 (2024)

H. G. Gill and J. Linder

Superconductor-alternagnet memory functionality without stray fields

Phys. Rev. B 109, 134511 (2024)

A. T. Bregazzi, J. A. Ouassou, A. G. T. Coveney, N. A. Stelmashenko, A. Child, A. T. N'Diaye, J. W. A. Robinson, F. K. Dejene, J. Linder, and N. Banerjee

Enhanced triplet proximity effect in superconducting spin-orbit coupled spin valves with modified superconductor/ferromagnet interfaces

Appl. Phys. Lett. 124, 162602 (2024)

J. A. Ouassou, T. Yokoyama, and J. Linder

RKKY interaction in triplet superconductors: Dzyaloshinskii-Moriya-type interaction mediated by spin-polarized Cooper pairs

Phys. Rev. B 109, 174506 (2024)

J. B. Tjernshaugen, M. Amundsen, and J. Linder

Superconducting phase diagram and spin diode effect via spin accumulation

Phys. Rev. B 109, 094516 (2024)

E. H. Fyhn, H. Bentmann, and J. Linder

Barrier and finite size effects on the extension of topological surface-states into magnetic insulators

Phys. Rev. B 109, 045409 (2024)

S. Aunsmo and J. Linder

Converting a triplet Cooper pair supercurrent into a spin-signal

Phys. Rev. B 109, 024503 (2024)

E. W. Hodt and J. Linder

On-off switch and sign change for non-local diode effect in spin-valve Andreev molecules

Phys. Rev. B 108, 174502 (2023)

C. Sun and J. Linder

Spin pumping from a ferromagnetic insulator into an alternagnet

Phys. Rev. B 108, L140408 (2023)

E. H. Fyhn, A. Brataas, A. Qaiumzadeh, and J. Linder

Superconducting proximity effect and long-ranged triplets in dirty metallic antiferromagnets

Phys. Rev. Lett. 131, 076001 (2023)

C. Sun, A. Brataas, and J. Linder

Andreev reflection in alternagnets

Phys. Rev. B 108, 054511 (2023)

J. A. Ouassou, A. Brataas, and J. Linder

dc Josephson effect in alternagnets

Phys. Rev. Lett. 131, 076003 (2023)

E. W. Hodt, J. A. Ouassou, and J. Linder

Transient dynamics and quantum phase diagram for the square lattice Rashba-Hubbard model at arbitrary hole doping

Phys. Rev. B 107, 224427 (2023)

C. Gonzalez-Ruano, D. Caso, J. A. Ouassou, C. Tiusan, Y. Lu, J. Linder, and F. G. Aliev

Observation of magnetic state dependent thermoelectricity in superconducting spin valves

Phys. Rev. Lett. 130, 237001 (2023)

E. H. Fyhn, A. Brataas, A. Qaiumzadeh, and J. Linder

Quasiclassical theory for antiferromagnetic metals

Phys. Rev. B 107, 174503 (2023)

C. Sun and J. Linder

Spin-pumping from a ferromagnetic insulator to an unconventional superconductor with interfacial Andreev bound-states

Phys. Rev. B 107, 144504 (2023)

W. M.J. van Weerdenburg, A. Kamlapure, E. H. Fyhn, X. Huang, N. P. E. van Mullekom, M. Steinbrecher, P. Krogstrup, J. Linder, and A. A. Khajetoorians

Extreme enhancement of superconductivity in epitaxial aluminum near the monolayer limit
Sci. Adv. 9, eadf5500 (2023)

V. Falch and J. Linder

Giant anisotropy in the Josephson effect and switching of staggered order in antiferromagnets
Phys. Rev. B 106, 214511 (2022)

H. Gil and J. Linder

Effective quasiclassical models for odd-frequency superconductivity:
energy-inversion symmetry, preserved spectral weight, and Meissner response
Phys. Rev. B 106, 224506 (2022)

J. A. Ouassou, C. González-Ruano, D. Caso, F. Aliev, and J. Linder

Complete magnetic control over the superconducting thermoelectric effect
Phys. Rev. B 106, 094514 (2022)

J. Linder and M. Amundsen

Quasiclassical theory for spin-orbit coupled interfaces with spin-charge conversion
Phys. Rev. B 105, 064506 (2022)

E. H. Fyhn and J. Linder

Spin-orbit pumping
Phys. Rev. B 105, L020409 (2022)

A. Ghanbari, E. Erlandsen, A. Sudbø, and J. Linder

Going beyond the Clogston-Chandrasekhar limit in a flat-band superconductor
Phys. Rev. B 105, L060501 (2022)

L. A. B. Olde Olthof, L. G. Johnsen, J. W. A. Robinson, and J. Linder

Controllable enhancement of p-wave superconductivity via magnetic coupling to a conventional superconductor
Phys. Rev. Lett. 127, 267001 (2021)

L. G. Johnsen and J. Linder

Spin injection and spin relaxation in odd-frequency superconductors
Phys. Rev. B 104, 144513 (2021)

L. G. Johnsen, H. T. Simensen, A. Brataas, and J. Linder

Magnon spin current induced by triplet Cooper pair supercurrents
Phys. Rev. Lett. 127, 207001 (2021)

H. Alpern, M. Amundsen, R. Hartmann, N. Sukenik, A. Spuri, S. Yochelis, T. Prokscha, V. Gutkin, E. Scheer, J. Linder, Z. Salman, O. Millo, Y. Paltiel, and A. Di Bernardo

Unconventional Meissner screening induced by chiral molecules in a conventional superconductor
Phys. Rev. Materials 5, 114801 (2021)

A. Ghanbari and J. Linder

RKKY interaction in a spin-split superconductor
Phys. Rev. B 104, 094527 (2021)

C. González-Ruano, D. Caso, L. G. Johnsen, C. Tiusan, M. Hehn, N. Banerjee, J. Linder, and F. G. Aliev

Superconductivity assisted change of the perpendicular magnetic anisotropy in V/MgO/Fe junctions
Sci. Rep. 11, 19041 (2021)

A. Ghanbari, E. Erlandsen, and J. Linder

The effect of midgap states on the magnetic exchange interaction mediated by a d-wave superconductor
Phys. Rev. B 104, 054502 (2021)

E. H. Fyhn and J. Linder

Spin-pumping in superconductor-antiferromagnetic insulator bilayers
Phys. Rev. B 103, 134508 (2021)

E. H. Fyhn and J. Linder

Temporarily enhanced superconductivity from magnetic fields
Phys. Rev. B 103, L100502 (2021)

L. G. Johnsen, S. H. Jacobsen, and J. Linder

Magnetic control of superconducting heterostructures using compensated antiferromagnets
Phys. Rev. B 103, L060505 (2021)

T. Dvir, A. Zalic, E. H. Fyhn, M. Amundsen, T. Taniguchi, K. Watanbe, J. Linder, and H. Steinberg

Zeeman and orbital effects in planar graphene-NbSe₂ Josephson junctions in a parallel magnetic field
Phys. Rev. B 103, 115401 (2021)

A. Ghanbari, V. Risinggård, and J. Linder

Self-consistent solution for the magnetic exchange interaction mediated by a superconductor
Sci. Rep. 11, 5028 (2021)

H. T. Simensen, L. G. Johnsen, J. Linder, and A. Brataas

Spin pumping between noncollinear ferromagnetic insulators through thin superconductors
Phys. Rev. B 103, 024524 (2021)

M. Amundsen and J. Linder

Spin accumulation induced by a singlet supercurrent
Phys. Rev. B 102, 100506(R) (2020).

L. G. Johnsen, K. Svalland, and J. Linder

Controlling the superconducting transition by rotation of an inversion symmetry breaking axis
Phys. Rev. Lett. 125, 107002 (2020).

C. González-Ruano, L. G. Johnsen, D. Caso, C. Tiusan, M. Hehn, N. Banerjee, J. Linder, F. G. Aliev

Superconductivity-induced change in magnetic anisotropy in epitaxial ferromagnet-superconductor hybrids with spin-orbit interaction
Phys. Rev. B 102, 020405(R) (2020)

E. H. Fyhn, M. Amundsen, A. Zalic, T. Dvir, H. Steinberg, J. Linder

Combined Zeeman and orbital effect on the Josephson effect in rippled graphene
Phys. Rev. B 102, 024510 (2020)

Y. Li, M. Amado, T. Hyart, G. P. Mazur, V. Risinggård, T. Wagner, L. McKenzie Sell, G. Kimbell, J. Wunderlich, J. Linder, J. W. A. Robinson

Transition between canted antiferromagnetic and spin-polarized ferromagnetic quantum Hall states in graphene on a ferrimagnetic insulator
Phys. Rev. B 101, 241405(R) (2020) [Editors' Suggestion]

J. A. Ouassou, W. Belzig, and J. Linder

Prediction of a paramagnetic Meissner effect in voltage-biased superconductor/normal-metal bilayers
Phys. Rev. Lett. 124, 047001 (2020).

J. Linder and A. V. Balatsky

Odd-frequency superconductivity
Rev. Mod. Phys. 91, 045005 (2019)

J. Eskilt, M. Amundsen, and N. Banerjee, and J. Linder

Long-ranged triplet supercurrent in a single in-plane ferromagnet with spin-orbit coupled contacts to superconductors
Phys. Rev. B 100, 224519 (2019)

E. Fyhn and J. Linder

Controllable Vortex Loops in Superconducting Proximity Systems
Phys. Rev. B 100, 214503 (2019)

E. H. Fyhn and J. Linder

Superconducting vortices in half-metals
Phys. Rev. B 100, 224508 (2019)

J. A. Ouassou, J. W. A. Robinson, and J. Linder

Controlling spin supercurrents via nonequilibrium spin injection
Sci. Rep. 9, 12731 (2019)

M. Amundsen and J. Linder

Quasiclassical theory for interfaces with spin-orbit coupling
Phys. Rev. B 100, 064502 (2019)

J. A. Ouassou, and J. Linder

Voltage control of superconducting exchange interaction and anomalous Josephson effect

Phys. Rev. B 99, 214513 (2019)

V. Risinggård and J. Linder

Direct and inverse superspin Hall effect in two-dimensional systems: Electrical detection of spin supercurrents

Phys. Rev. B 99, 174505 (2019)

Ø. Johansen, V. Risinggård, A. Sudbø, J. Linder, and A. Brataas

Current control of magnetism in two-dimensional Fe₃GeTe₂

Phys. Rev. Lett. 122, 217203 (2019)

L. G. Johnsen, N. Banerjee, and J. Linder

Magnetisation reorientation due to superconducting transition in heavy metal heterostructures

Phys. Rev. B 99, 134516 (2019)

H. Hugdahl, M. Amundsen, J. Linder, and A. Sudbø

Inverse proximity effect in an s-wave and d-wave superconductor coupled to topological insulators

Phys. Rev. B 99, 094505 (2019)

J. A. Ouassou, and J. Linder

Voltage-induced superconductivity in high magnetic fields

Phys. Rev. B 98, 144509 (2018)

M. Amundsen, H. Hugdahl, A. Sudbø, and J. Linder

Vortex spin-valve on a topological insulator

Phys. Rev. B 98, 144505 (2018)

N. Banerjee, J. A. Ouassou, Y. Zhu, N. A. Stelmashenko, J. Linder, and M. G. Blamire

Controlling the superconducting transition by spin-orbit coupling

Phys. Rev. B 97, 184521 (2018)

M. Amundsen, J. A. Ouassou, and J. Linder

Field-free nucleation of antivortices and giant vortices in non-superconducting materials

Phys. Rev. Lett. 120, 207001 (2018)

H. T. Simensen and J. Linder

Tunable superconducting critical temperature in ballistic hybrid structures with strong spin-orbit coupling

Phys. Rev. B 97, 054518 (2018)

V. Risinggård, E. Tveten, A. Brataas, and J. Linder

Equations of motion and frequency dependence of magnon-induced domain wall motion

Phys. Rev. B 96, 174441 (2017)

S. H. Jacobsen, and J. Linder

Quantum kinetic equations and anomalous non-equilibrium Cooper pair spin accumulation in Rashba wires with Zeeman splitting

Phys. Rev. B 96, 134513 (2017)

T. Hashimoto, A. A. Golubov, Y. Tanaka, and J. Linder

Tunability of Andreev levels via spin-orbit coupling in Zeeman-split Josephson junctions

Phys. Rev. B 96, 134508 (2017)

K. Lahabi, M. Amundsen, J. A. Ouassou, E. Beukers, M. Pleijster, J. Linder, P. Alkemade, J. Aarts

Controlling supercurrents and their spatial distribution in ferromagnets

Nat. Commun. 8, 2056 (2017)

S. Charpentier, L. Galletti, G. Kunakova, R. Arpaia, Y. Song, R. Bahdadi, S. M. Wang, A. Kalaboukhov, E. Olsson, F. Tafuri, D. Golubev, J. Linder, T. Bauch, and F. Lombardi

Unconventional superconductivity on the surface states of Bi₂Te₃

Nat. Commun. 8, 2019 (2017)

J. A. Ouassou, A. Pal, M. G. Blamire, M. Eschrig, and J. Linder

Triplet Cooper pairs induced in diffusive s-wave superconductors interfaced with strongly spin-polarized magnetic insulators or half-metallic ferromagnets

Sci. Rep. 7, 1932 (2017)

M. E. Bathen and J. Linder

Spin Seebeck effect and thermoelectric phenomena in superconducting hybrids with magnetic textures or spin-orbit coupling

Sci. Rep. 7, 41409 (2017)

M. Amundsen, J. A. Ouassou, and J. Linder

Analytically determined topological phase diagram of the proximity-induced gap in diffusive n-terminal Josephson junctions
Sci. Rep. 7, 40578 (2017)

A. Pal, J. A. Ouassou, M. Eschrig, J. Linder, M. G. Blamire

Spectroscopic evidence of odd frequency superconducting order
Sci. Rep. 7, 40604 (2017)

A. Di Bernardo, O. Millo, M. Barbone, H. Alpern, Y. Kalcheim, U. Sassi, A. K. Ott, D. De Fazio, D. Yoon, M. Amado, A. C. Ferrari, J. Linder, J. W. A. Robinson

p-wave triggered superconductivity in single layer graphene on an electron-doped oxide superconductor
Nat. Commun. 8, 14024 (2017)

J. Linder, M. Amundsen, and V. Risinggård

Intrinsic Superspin Hall Current
Phys. Rev. B 96, 094512 (2017)

J. A. Ouassou, S. H. Jacobsen, and J. Linder

Conservation of spin supercurrents in superconductors
Phys. Rev. B 96, 094505 (2017)

J. A. Ouassou and J. Linder

Spin-switch Josephson junctions with magnetically tunable $\sin(\delta\phi/n)$ current-phase shape
Phys. Rev. B 96, 064516 (2017)

M. Amundsen and J. Linder

Supercurrent Vortex Pinball via a Triplet Cooper Pair Inverse Edelstein Effect
Phys. Rev. B 96, 064508 (2017)

H. G. Hugdal, J. Linder, and S. H. Jacobsen

Quasiclassical theory for the superconducting proximity effect in Dirac materials
Phys. Rev. B 95, 235403 (2017)

J. Linder and T. Yokoyama

Anisotropic Andreev reflection and Josephson effect in ballistic phosphorene
Phys. Rev. B 95, 144515 (2017)

V. Risinggård and J. Linder

Universal Absence of Walker Breakdown and Linear Current-Velocity Relation via Spin-Orbit Torques in Coupled and Single Domain Wall Motion
Phys. Rev. B 95, 134423 (2017)

D. Kuzmanovski, J. Linder, and A. Black-Schaffer

Quantum Ground State Control in Superconductor-Silicene Structures: $0-\pi$ transitions, Φ_0 -junctions, and Majorana bound states
Phys. Rev. B 94, 180505(R) (2016)

J. Linder and M. E. Bathen

Spin caloritronics with superconductors: Enhanced thermoelectric effects, generalized Onsager response-matrix, and thermal spin currents
Phys. Rev. B 93, 224509 (2016)

C. Espedal, T. Yokoyama, and J. Linder

Anisotropic Paramagnetic Meissner Effect by Spin-Orbit Coupling
Phys. Rev. Lett. 116, 127002 (2016)

J. Linder and K. Halterman

Dynamical tuning between nearly perfect reflection, absorption, and transmission of light via graphene/dielectric structures
Sci. Rep. 6, 38141 (2016)

J. Linder, M. Amundsen, and J. A. Ouassou

Microwave control of the superconducting proximity effect and minigap
Sci. Rep. 6, 38739 (2016)

Ø. Johansen and J. Linder

Current driven spin-orbit torque oscillator: ferromagnetic and antiferromagnetic coupling
Sci. Rep. 6, 33845 (2016)

V. Risinggård, I. Kulagina, and J. Linder

Electric field control of magnon-induced magnetization dynamics in multiferroics
Sci. Rep. 6, 31800 (2016)

J. Linder and K. Halterman

Graphene-based extremely wide-angle tunable metamaterial absorber
Sci. Rep. 6, 31225 (2016)

J. A. Ouassou, A. Di Bernardo, J. W. A. Robinson, and J. Linder

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