Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures
Vincent, T., Panchal, V., Booth, T., Power, S. R., Jauho, A. P., Antonov, V. & Kazakova, O. 2019 In : 2D materials. 6, 1, 9 p., 015022
Research output: Research - peer-review › Journal article – Annual report year: 2019

Fraunhofer response and supercurrent spin switching in black phosphorus with strain and disorder
Research output: Research - peer-review › Journal article – Annual report year: 2018

Ballistic tracks in graphene nanoribbons
Research output: Research - peer-review › Journal article – Annual report year: 2018

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Research output: Research - peer-review › Journal article – Annual report year: 2018

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Research output: Research - peer-review › Journal article – Annual report year: 2018

Probing nonlocal effects in metals with graphene plasmons
Research output: Research - peer-review › Journal article – Annual report year: 2018

Strain-engineered Majorana zero energy modes and $\phi_0$ Josephson state in black phosphorus
Research output: Research - peer-review › Journal article – Annual report year: 2018

Classification of DNA nucleotides with transverse tunneling currents
Research output: Research - peer-review › Journal article – Annual report year: 2016

Disorder-induced localised gating in graphene
Research output: Research - peer-review › Poster – Annual report year: 2017

Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions
Research output: Research - peer-review › Journal article – Annual report year: 2017
Graphene Nanobubbles as Valley Filters and Beam Splitters
Research output: Research - peer-review › Journal article – Annual report year: 2017

Magnetic edge states and magnetotransport in graphene antidot barriers
Research output: Research - peer-review › Journal article – Annual report year: 2016

Plasma wave instabilities in nonequilibrium graphene
Research output: Research - peer-review › Journal article – Annual report year: 2016

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Research output: Research - peer-review › Conference article – Annual report year: 2015

Electron polarization function and plasmons in metallic armchair graphene nanoribbons
Research output: Research - peer-review › Journal article – Annual report year: 2015

From Classical to Quantum Plasmonics in Three and Two Dimensions
Research output: Research › Ph.D. thesis – Annual report year: 2015

Graphene nanoribbons with sublattice asymmetric doping
Research output: Research › Poster – Annual report year: 2015

Graphene on graphene antidot lattices: Electronic and transport properties
Research output: Research - peer-review › Journal article – Annual report year: 2015

Kerr nonlinearity and plasmonic bistability in graphene nanoribbons
Research output: Research - peer-review › Journal article – Annual report year: 2015

Localized plasmons in graphene-coated nanospheres
Research output: Research - peer-review › Journal article – Annual report year: 2015
Patched Green's function techniques for two-dimensional systems: Electronic behavior of bubbles and perforations in graphene
Research output: Research - peer-review › Journal article – Annual report year: 2015

Plasmonic eigenmodes in individual and bow-tie graphene nanotriangles
Research output: Research - peer-review › Journal article – Annual report year: 2015

Theory of dual probes on graphene structures
Research output: Research › Ph.D. thesis – Annual report year: 2015

Thermally Driven Pure Spin and Valley Currents via the Anomalous Nernst Effect in Monolayer Group-VI Dichalcogenides
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Classical and quantum plasmonics in graphene nanodisks: Role of edge states
Research output: Research - peer-review › Journal article – Annual report year: 2014

Dual-probe spectroscopic fingerprints of defects in graphene
Research output: Research - peer-review › Journal article – Annual report year: 2014

Electronic transport in disordered graphene antidot lattice devices
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Acoustic phonon limited mobility in two-dimensional semiconductors: Deformation potential and piezoelectric scattering in monolayer MoS2 from first principles
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Microscopic theory of indistinguishable single-photon emission from a quantum dot coupled to a cavity: The role of non-Markovian phonon-induced decoherence

Nonlocal response in plasmonic waveguiding with extreme light confinement

Refractive-Index Sensing with Ultrathin Plasmonic Nanotubes

Screening and collective modes in disordered graphene antidot lattices

Fundamental properties of devices for quantum information technology

Are there novel resonances in nanoplasmonic structures due to nonlocal response?

CNG Center of Nanostructured Graphene: Research Highlights From Centre Of Excellence

Dynamical polarizability of graphene irradiated by circularly polarized ac electric fields

Electronic transport in graphene-based structures: An effective cross-section approach
Fundamental Limitations to Gain Enhancement in Periodic Media and Waveguides
Research output: Research - peer-review › Journal article – Annual report year: 2012

Fundamental limitations to gain enhancement in slow-light photonic structures
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Microscopic theory of phonon-induced effects on semiconductor quantum dot decay dynamics in cavity QED
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Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

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Research output: Research - peer-review › Poster – Annual report year: 2012

Single-photon indistinguishability: influence of phonons
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Slow light enhancement and limitations in periodic media
Research output: Research › Ph.D. thesis – Annual report year: 2012

Surface-enhanced Raman spectroscopy: nonlocal limitations
Research output: Research - peer-review › Journal article – Annual report year: 2012

Thermoelectric properties of disordered graphene antidot devices
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Field enhancement at metallic interfaces due to quantum confinement
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Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Thermoelectric properties of finite graphene antidot lattices
Research output: Research - peer-review › Journal article – Annual report year: 2011

Unusual resonances in nanoplasmonic structures due to nonlocal response
Research output: Research - peer-review › Journal article – Annual report year: 2011

Ab initio vibrations in nonequilibrium nanowires
Research output: Research › Journal article – Annual report year: 2010

Analysis of optical properties of strained semiconductor quantum dots for electromagnetically induced transparency
Research output: Research - peer-review › Journal article – Annual report year: 2010

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Counting statistics of transport through Coulomb blockade nanostructures: High-order cumulants and non-Markovian effects
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Non-markovian effects in semiconductor cavity QED: Role of phonon-mediated processes
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Influence of many-particle interactions on slow light phenomena in quantum dots
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Modeling Transport in Ultrathin Si Nanowires: Charged versus Neutral Impurities
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Failure of standard approximations of the exchange coupling in nanostructures
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Inelastic transport theory from first principles: Methodology and application to nanoscale devices
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Frederiksen, T., Brandbyge, M. & Jauho, A-P. 2005
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Unsolved Problems of Noise and Fluctuations in Physics
Jauho, A-P. 2005
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Coulomb drag in multiwall armchair carbon nanotubes
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Inelastic scattering and local heating in atomic gold wires
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Modeling of inelastic transport in one-dimensional metallic atomic wires
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Modeling of quantum nanomechanics
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Shot noise of a quantum shuttle
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Shuttle Instabilities: Semiclassical Phase Analysis
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TMR Effect in a FM-QD-FM system
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Quantum Shuttle in Phase Space
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Virtual Photon Contribution to Frictional Drag in Double-layer Devices
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Photon-mediated drag in double-layer electron gas
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Sign reversal of drag in bilayer systems with in-plane periodic potential modulation
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Coulomb drag in coherent mesoscopic systems
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Unification of the three standard approaches to superlattice transport by nonequilibrium quantum theory.
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Magnetic Fields and Phonons in Drag
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Microscopic modelling of perpendicular electronic transport in doped multiple quantum wells
Research output: Research - peer-review › Journal article – Annual report year: 1997

Nonequilibrium absorption in semiconductors and the dynamical Franz-Keldysh effect
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Observation of Dynamical Franz-Keldysh Effect
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Sequential tunneling in doped superlattices: Fingerprints of impurity bands and photon-assisted tunneling
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Transport in weakly-coupled superlattices: A quantitative approach for photon-assisted tunneling
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Frontiers in Nanoscale Science of Micron/Submicron Devices
Research output: Research - peer-review › Book – Annual report year: 1996

Magneto-Coulomb Drag: Interplay of Electron-Electron Interactions and Landau Quantization
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Nanostructuring of silicon by laser direct writing
Research output: Research - peer-review › Book chapter – Annual report year: 1996
Quantum kinetics and optics of Semiconductors
Research output: Research - peer-review › Book – Annual report year: 1996

Theory of coherent time-dependent transport in one-dimensional multiband semiconductor super-lattices
Research output: Research - peer-review › Journal article – Annual report year: 1996

Bloch Oscillations, Zener Tunneling, and Wannier-Stark Ladders in the Time Domain
Research output: Research - peer-review › Journal article – Annual report year: 1995

Linear-response theory of Coulomb drag in coupled electron systems
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Plasma instabilities in high electric fields
Research output: Research - peer-review › Journal article – Annual report year: 1994

Time-dependent transport in interacting and noninteracting resonant-tunneling systems
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Projects:

Spin-valley physics and quantum transport in 2D materials
Handberg Juul Martiny, J., Jauho, A., Kaasbjerg, K. & Thygesen, K. S.
Samfinansieret - Andet
01/02/2017 → 31/01/2020
Project: PhD

Opto-elektroniske komponenter baseret på kvante-strukturer
Berg, T. W., Mørk, J., Birkedal, D., Tromborg, B., Jauho, A. & Willatzen, M.
DTU-lønnet stipendie
15/10/2000 → 06/09/2004
Project: PhD

Quantum transport and thermoelectric effects in nanostructures and two-dimensional materials
Walldorf, N., Jauho, A. & Kaasbjerg, K.
Samfinansieret - Andet
01/09/2016 → 31/08/2020
Project: PhD

Novel Two-dimensional Plasmonic Materials in Curved and Engineered Geometries
Dias Gonçalves, P. A., Mortensen, N. A., Jauho, A. & Peres, N. M. R.
Grundforskningsfonden
01/06/2016 → 31/05/2019
Project: PhD

Theoretical Investigators of transport properties of ballistic graphene devices
Calogero, G., Brandbyge, M., Bøggild, P., Jauho, A., Cuniberti, G., Santos, E. J. G. & Papior, N. R.
Forskningsrådsfinskiering
15/12/2015 → 14/12/2018
Project: PhD
Bridging first principles modelling with nanodevice TCAD simulations
Palsgaard, M. L. N., Brandbyge, M., Gunst, T., Markussen, T., Jauho, A., Pedersen, T. G., Rideau, D., Pedersen, T. G. & Rideau, D.
Industrial PhD
01/09/2015 → 07/11/2018
Project: PhD

Nanostructuring of two-dimensional materials using disorder
Samfinansieret - Andet
01/05/2015 → 07/11/2018
Project: PhD

Single-photon quantum information technology
Taherkhani, M., Gregersen, N., Mørk, J., Jauho, A., Marquardt, O., Zinner, N. T., McCutcheon, D., Marquardt, O. & Zinner, N. T.
Forskningsrådsfinansiering
15/05/2015 → 05/09/2018
Project: PhD

Quantum Hall effects in nanostructured graphene
Samfinansieret - Andet
01/04/2014 → 14/06/2017
Project: PhD

Slow light enhancement and limitations in periodic media
Grgic, J., Mortensen, N. A., Jauho, A., Mørk, J., Laurynenka, A., De Rossi, A. & Willatzen, M.
Eksternt finansieret virksomhed
01/01/2009 → 19/04/2012
Project: PhD

Teori for Quantum Devices
Johnsen, K., Jauho, A., Jacobsen, K. W. & Smith, H.
Mic-Finansieret-SU
01/09/1995 → 10/08/1999
Project: PhD

Optical switching in poled glass
Jacobsen, R. S., Svalgaard, M., Fage-Pedersen, J., Kristensen, M., Jauho, A., Bozhevolnyi, S. I. & Kashyap, R.
DTU, Samfinansiering
15/03/2002 → 04/11/2005
Project: PhD

Spin-polariseret transport i halvledere
DTU-lønnet stipendie
01/02/2000 → 02/12/2003
Project: PhD

Spatio-temporal dynamics of localized excitons in semiconductor nanostructures
Leosson, K., Hvam, J. M., Østergaard, J. E., Jauho, A., Klingshirn, C. F. & Larsen, A. N.
DTU-lønnet stipendie
01/09/1998 → 14/03/2002
Project: PhD
Density-matrix Renormalization Group Study of Nanoscale Transport Phenomena
Bohr, D., Jauho, A., Bruus, H., Jeckelmann, E. & Östlund, S.
DTU-lønnet stipendie
01/08/2004 → 29/10/2007
Project: PhD

Quantum-limited measurement in mesoscopic
Flindt, C., Jauho, A., Flensberg, K., Mørk, J., Brandes, T. & Loss, D.
DTU-lønnet stipendie
15/08/2004 → 29/10/2007
Project: PhD

Inelastisk Elektrontransport i nanosystemer
Frederiksen, T., Brandbyge, M., Jauho, A., Schiøtz, J., Persson, M. & Todorov, T. N.
DTU-lønnet stipendie
01/03/2004 → 29/05/2007
Project: PhD

Dynamical effects in molecular electronics
Engelund, M., Jauho, A., Brandbyge, M., Vegge, T., Cuniberti, G. & Fernández, A. A.
DTU-lønnet stipendie
01/03/2007 → 01/09/2010
Project: PhD

Transport in nanostructures
Donarini, A., Jauho, A., Novotny, T., Mørk, J., Armour, A. D. & Platero, G.
DTU-lønnet stipendie
01/09/2001 → 27/10/2004
Project: PhD

Vekselvirkningseffekter i lavdimensionale elektronsystemer
DTU-lønnet stipendie
01/01/1999 → 25/09/2001
Project: PhD

Modellering af transportegenskaber i Nanowires
Markussen, T., Brandbyge, M., Jauho, A., Mortensen, N. A., Blase, X. & Wacker, A.
DTU-lønnet stipendie
01/03/2006 → 21/10/2009
Project: PhD

Fundamentale egenskaber af komponenter til kvanteinformationsteknologi
Nielsen, P. K., Mørk, J., Jauho, A., Lodahl, P., Knorr, A. & Mølmer, K.
Institut stipendie (DTU) Samf.
01/02/2009 → 20/09/2012
Project: PhD

Suspended Nanopatterned Graphene Devices
Anden EU-finansiering
15/08/2013 → 07/12/2016
Project: PhD

Graphene Plasmonics
Christensen, T., Mortensen, N. A., Jauho, A., Wubs, M., Andersen, U. L., Engheta, N., Koppens, F. & Engheta, N.
Institut stipendie (DTU) Samf.
01/10/2012 → 17/02/2016
Theory of nanoscale four-probe point (N4PP) spectroscopy of nanostructured graphene
Institut stipendie (DTU) Samf.
15/04/2012 → 29/09/2015
Project: PhD

Atomar skala kvante transport i kommende halvleder komponenter
DTU, Samfinansiering
01/09/2006 → 21/12/2009
Project: PhD

Quantum Kinetics of charge carriers in quantum dots: applications to slow light and light amplification
Houmark-Nielsen, J., Jauho, A., Mørk, J., Nielsen, T. R., Willatzen, M., Mortensen, N. A., Kuhn, T. & Pedersen, T. G.
Forskningsrådsfinansiering
15/05/2006 → 20/01/2010
Project: PhD

Properties of single quantum dot lasers
Lund, A. M., Mørk, J., Nielsen, P. K., Jauho, A., Björk, G. & Kapon, E.
Institut stipendie (DTU)
01/09/2010 → 19/03/2014
Project: PhD

Quantum theory of plasmonic excitations in metallic nanostructures
Toscano, G., Mortensen, N. A., Jauho, A., Wubs, M., Thygesen, K. S., García de Abajo, F. J. & Nordlander, P. J. A.
Institut stipendie (DTU)
01/09/2009 → 04/04/2013
Project: PhD

NATEC: Nanophotonics for terabit communications : VKR centre of excellence - NATEC
Ukendt
01/09/2008 → 31/08/2014
Project: Research

QUEST: Quantum dot structures enabling light slow-down and amplification
Forskningsrådene - STVF
01/01/2006 → 30/06/2012
Project: Research

Non-equilibrium response in strongly driven systems
Jauho, A., Hu, B. Y. & Johnsen, K.
01/01/1997 → ...
Project: Research

Microscopic modeling of ballistic transport in gated structures
Jauho, A.
01/01/1997 → ...
Project: Research
Theory of charge transport in superlattices
Jauho, A. & Wacker, A.
01/01/1997 → 31/12/2000
Project: Research

Time-dependent effects in mesoscopic transport
Jauho, A.
01/01/1997 → 31/12/1997
Project: Research

Frictional drag in coupled mesoscopic systems
Jauho, A. & Hu, B. Y.
01/01/1997 → 31/12/2000
Project: Research

Electric field effects in scanning tunneling microscopy
Jauho, A., Stokbro, K., Grey, F. & Quaade, U.
01/01/1996 → …
Project: Research

Optical absorption in mesoscopic structures in intense THz-fields
Jauho, A. & Johnsen, K.
01/01/1996 → …
Project: Research

Quantum Kinetics in Transport and Optics of Semiconductors
Jauho, A.
01/01/1996 → 31/12/2000
Project: Research

Transmission phases in time-dependent transport
Jauho, A.
01/01/1996 → 31/12/2000
Project: Research

Modulation response of semiconductor quantum dot nanolasers and nanoLEDs
Forskningsrådene - Andre
01/01/2010 → 31/12/2012
Project: Research

Activities:

Talk about "Radiative heat transport in quantum circuits" presented at Unifying Themes in Condensed Matter
Jauho, A. (Speaker)
11 Jan 2009 → 17 Jan 2009
Activity: Talks and presentations › Conference presentations

Talk about "Atomistic Modeling of Electronic and Thermal Transport Properties af Si-nanowires" Presented at Advanced Heterostructures and Nanostructures Workshop
Jauho, A. (Speaker)
7 Dec 2008 → 12 Dec 2008
Activity: Talks and presentations › Conference presentations

Talk about "Atomistic Modeling of Electronic and Thermal Transport Properties af Si-nanowires" Presented at International Workshop on Nonequilibrium Nanostructures