

List of publications of *Serge Huant* as of March 2010 ¹

2010

- 125 – Imaging Coulomb Islands in a Quantum Hall Interferometer**
B. Hackens, F. Martins, S. Faniel, C. A. Dutu, H. Sellier, **S. Huant**, M. Pala, L. Desplanque, X. Wallart, V. Bayot
Submitted for publication
- 124 – Near-field scanning single-photon microscopy with an ultrasmall nanodiamond: how good can the resolution be?**
A. Drezet, A. Cuche, O. Mollet, **S. Huant**
SPIE Photonics Europe 2010, Conference 7712: Nanophotonics, Brussels, April 2010
Proceedings to appear in Proc. SPIE
- 123 – Giant slip lengths of a simple fluid at vibrating solid interfaces**
A. Drezet, A. Siria, **S. Huant**, J. Chevrier
Phys. Rev. E (to appear). See : <http://arxiv.org/abs/1002.0714>
- 122 – Grafting fluorescent nanodiamonds onto optical tips**
A. Cuche, A. Drezet, J.-F. Roch, F. Treussart, **S. Huant**
J. Nanophoton. **4**, 043506 (2010) (DOI: [10.1117/1.3374237](https://doi.org/10.1117/1.3374237))
- 121 – Imager les interférences quantiques dans les semi-conducteurs**
H. Sellier, B. Hackens, M. Pala, **S. Huant**
Les Images de la Physique 2009, CNRS (to appear)

2009

- 120 – Near-field optical microscopy with a nanodiamond-based single-photon tip**
A. Cuche, A. Drezet, Y. Sonnefraud, O. Faklaris, F. Treussart, J.-F. Roch, **S. Huant**
Opt. Express **17**, 19969 (2009) [see also: <http://nanotechweb.org/cws/article/tech/40569>]
- 119 - Diamond nanoparticles as photoluminescent nanoprobes for biology and near-field optics**
A. Cuche, Y. Sonnefraud, O. Faklaris, D. Garrot, J.-P. Boudou, T. Sauvage, J.-F. Roch, F. Treussart, **S. Huant**
Keynote talk at the 15th Int. Conf. on Luminescence and Opt. Spectrosc. of Cond. Mat. (ICL'08), Lyon, July '08.
J. Lumin. **129**, 1475 (2009)
- 118 - Viscous cavity damping of a microlever in a simple fluid**
A. Siria, A. Drezet, F. Marchi, F. Comin, **S. Huant**, J. Chevrier
Phys. Rev. Lett. **102**, 254503 (2009)
- 117 - Scanning gate microscopy of quantum rings: effects of an external magnetic field and of charged defects**
M.G. Pala, S. Baltazar, F. Martins, B. Hackens, H. Sellier, T. Ouisse, V. Bayot, **S. Huant**
Nanotechnology **20**, 264021 (2009)
- 116 - Self assembly drives quantum dot photoluminescence**
J. Plain, Y. Sonnefraud, P. Viste, G. Léronnel, **S. Huant**, P. Royer
J. Fluoresc. **19**, 311 (2009)
- 115 - Fluorescent oxide nanoparticles adapted to active tips for near-field optics**
A. Cuche, B. Masenelli, G. Ledoux, D. Amans, C. Dujardin, Y. Sonnefraud, P. Mélinon, **S. Huant**
Nanotechnology **20**, 015603 (2009) [see also: <http://nanotechweb.org/cws/article/tech/36063>]

2008

- 114- Sub-wavelength photonics throughout the spectrum: Materials and techniques – Preface**
S. Maier, **S. Huant**
Proceedings of Symposium A, E-MRS 2007 Spring Meeting, Strasbourg, May 2007
Mat. Science Eng. B **149**, 215 (2008)
- 113 - Local Density of States in Mesoscopic Samples from Scanning Gate Microscopy**
M. G. Pala, B. Hackens, F. Martins, H. Sellier, V. Bayot, **S. Huant**, T. Ouisse
Phys. Rev. B **77**, 125310 (2008)
- 112 - Diamond nanocrystals hosting single NV color centers sorted by photon-correlation near-field microscopy**
Y. Sonnefraud, A. Cuche, O. Faklaris, J.-P. Boudou, T. Sauvage, J.-F. Roch, F. Treussart, **S. Huant**
Opt. Lett. **33**, 611 (2008)

¹ This list includes original papers published in international journals with peer review (black color) and papers published in proceedings of international conferences with (blue color) or without (green color) peer review. Where applicable, the name of the invited speaker is underlined. Lists of additional conferences, including invited talks, without contribution to proceedings and of recent invited seminars are given at the end of this document.

2007

111- Diamond nanoparticles as photoluminescent nanoprobes

O. Faklaris, Y. Sonnefraud, A. Cuche, T. Sauvage, V. Joshi, J.-P. Boudou, P. A. Curmi, J.-F. Roch, **S. Huant**, F. Treussart
 Proceedings of COLOQ'10 - 10^{ème} Colloque sur les Lasers et l'Optique Quantique, Grenoble, July 2007
Ann. Phys. Fr. **32** (2-3), 155 (2007)

110- Imaging Electron Wavefunctions Inside Open Quantum Rings

F. Martins, B. Hackens, M. G. Pala, T. Ouisse, H. Sellier, X. Wallart, S. Bollaert, A. Cappy, J. Chevrier, V. Bayot, **S. Huant**
Phys. Rev. Lett. **99**, 136807 (2007)
 [See also: <http://www.acsnanotation.org/tabid/98/Default.aspx?ReviewId=53>]

109- Surface plasmon mediated near-field imaging and optical addressing in nanoscience

A. Drezet, A. Hohenau, J.R. Krenn, M. Brun, **S. Huant**
Micron **38**, 427 (2007)

108- High-resolution mapping of the three-dimensional point spread function in the near-focus region of a confocal microscope

M.J. Nasse, J.C. Woehl, **S. Huant**
Appl. Phys. Lett. **90**, 031106 (2007)

2006

107- Imaging and controlling electron transport inside a quantum ring

B. Hackens, F. Martins, T. Ouisse, H. Sellier, S. Bollaert, X. Wallart, A. Cappy, J. Chevrier, V. Bayot, **S. Huant**
Nature Phys. **2**, 826 (2006) [See also: <http://www.acsnanotation.org/tabid/98/Default.aspx?ReviewId=53>]

106- Near-field optical imaging with a CdSe single-nanocrystal based active tip

Y. Sonnefraud, N. Chevalier, J.-F. Motte, **S. Huant**, P. Reiss, J. Bleuse, F. Chandezon, M. T. Burnett, W. Ding, S. A. Maier
Opt. Express **14**, 10596 (2006)

105- Diffraction of light by a planar aperture in a metallic screen

A. Drezet, J.C. Woehl, **S. Huant**
J. Math. Phys. **47**, 072901 (2006)

104- Aperture-size-controlled optical fiber tips for high-resolution optical microscopy

N. Chevalier, Y. Sonnefraud, J.F. Motte, **S. Huant**, K. Karrai
Rev. Sci. Instrum. **77**, 063704 (2006)

103- Signal amplitude and sensitivity of the Kelvin probe force microscopy

T. Ouisse, F. Martins, M. Stark, **S. Huant**, J. Chevrier
Appl. Phys. Lett. **88**, 043102 (2006)

2005

102- Theory of the electric force microscopy in the parametric amplification regime

T. Ouisse, M. Stark, F. Rodrigues-Martins, B. Bercu, **S. Huant**, J. Chevrier
Phys. Rev. B **71**, 205404 (2005)

101- CdSe-single-nanoparticle based active tips for near-field optical microscopy

N. Chevalier, M.J. Nasse, J.C. Woehl, P. Reiss, J. Bleuse, F. Chandezon, **S. Huant**
Nanotechnology **16**, 613 (2005)
 See also the following story: <http://nanotechweb.org/cws/article/tech/21751>

100- CdSe single-nanocrystal-based active optical tips for near-field optics: towards a nanosource of light

N. Chevalier, M. J. Nasse, M. Stark, J.-F. Motte, J. C. Woehl, **S. Huant**, P. Reiss, J. Bleuse, F. Chandezon
 8th International Conference on Near-Field Optics (NFO-8), Seoul, September 2004
J. Korean Phys. Soc. **47**, S126 (2005)

99-Surface-plasmon mediated near-field optical addressing of single nano-objects: a simple analysis

A. Drezet, M. Brun J.C. Woehl, **S. Huant**
 8th International Conference on Near-Field Optics (NFO-8), Seoul, September 2004
J. Korean Phys. Soc. **47**, S130 (2005)

2004

98- Conjugated polymer-molten salt blends: the relationship between morphology and electrical aging

F. Habrard, T. Ouisse, O. Stephan, M. Armand, M. Stark, **S. Huant**, E. Dubard, J. Chevrier
J. Appl. Phys. **96**, 7219 (2004).

97- The optical near-field of an aperture tip

A. Drezet, M.J. Nasse, **S. Huant**, J.C. Woehl
Europhys. Lett. **66**, 41 (2004).

96- In situ characterization of optical tips using fluorescent nanobeads

A. Drezet, J.C. Woehl, **S. Huant**
 8th Int. meeting on Hole Burning & Single Molecules (HBSM'03), Bozeman (Montana, USA), July 2003

J. Lumin. **107**, 176 (2004).

95- Carrier-diffusion-limited remote optical addressing of single quantum dots

M. Brun, N. Chevalier, A. Drezet, **S. Huant**, J.F. Motte, H. Mariette, M. Stark, F. Tinjod, J.C. Woehl
11th Int. Conf. On Modulated Semiconductor Structures (MSS11), Nara, Japan, July 2003
Physica E **21**, 219 (2004).

2003

94- Marking the difference: Interferometric detection vs optical beam deflection in AFM

M. Stark, B.N. Bercu, F. Marchi, J. Chevrier, **S. Huant**
12th Int. Conf. On Scanning Tunnelling Microscopy/Spectroscopy and Related Techniques
AIP Conference Proceedings **696**, 385 (2003).

93- Remote optical addressing of single nano-objects

M. Brun, A. Drezet, H. Mariette, N. Chevalier, J.C. Woehl, **S. Huant**
Europhys. Lett. **64**, 634 (2003).

2002

92- Diffraction by a small aperture in conical geometry: application to optical tips used in near-field microscopy

A. Drezet, J.C. Woehl, **S. Huant**
Phys. Rev. E **65**, 046611 (2002).

91- Excitons and multi-excitons in single CdTe quantum dots probed by near-field spectroscopy

M. Brun, **S. Huant**, J.C. Woehl, J.F. Motte, L. Marsal, H. Mariette.
Solid State Commun. **121**, 407 (2002).

2001

90- Extension of Bethe's diffraction model to conical geometry: application to near-field optics

A. Drezet, J.C. Woehl, **S. Huant**
Europhys. Lett. **54**, 736 (2001).

89- Luminescence quenching in InAs quantum dots

D. M. Haft, R. Warburton, K. Karrai, **S. Huant**, G. Medeiros-Ribeiro, J. M. Garcia, W. Schoenfeld, P. M. Petroff
Appl. Phys. Lett. **78**, 2946 (2001).

88- Photocurrent mapping with sub-micron resolution on the silicon-electrolyte junction by using NFO

H. Diesinger, A. Bsiesy, R. Herino, **S. Huant**
J. Appl. Phys. **89**, 3328 (2001).

87- Far-field emission of a tapered optical tip: a simple analytical model

A. Drezet, J.C. Woehl, **S. Huant**
6th International Conference on Near-Field Optics (NFO-6), Enschede (Pays-Bas), August 2000
J. Microscopy **202**, 359 (2001).

86- Near-field optics on silicon-electrolyte junctions

H. Diesinger, A. Bsiesy, R. Hérino, **S. Huant**
6th International Conference on Near-Field Optics (NFO-6), Enschede (Pays-Bas), August 2000
J. Microscopy **202**, 223 (2001).

85- Low-temperature near-field spectroscopy of CdTe quantum dots

M. Brun, **S. Huant**, J.C. Woehl, J.-F. Motte, L. Marsal, H. Mariette
6th International Conference on Near-Field Optics (NFO-6), Enschede (Pays-Bas), August 2000
J. Microscopy **202**, 202 (2001).

2000

84- Copper antiferromagnetic resonance in Gd₂CuO₄ : evidence for coherent lattice distortions

V. Pashchenko, **S. Huant**, A. Stepanov, P. Wyder
Phys. Rev. B **61**, 6889 (2000).

1999

83- Bolometric effect in the far-infrared response of a conducting layer on a semi-insulating substrate

M.L. Sadowski, M. Grynberg, A.M. Witowski, **S. Huant**, G. Martinez
Phys. Rev. B **60**, 10908 (1999).

1998

82 - Papers presented at the 8th International Conference on Shallow-Level Centers in Semiconductors (SLCS-98), Montpellier, France, July 27 to 30, 1998 - Preface

W. Knap, **S. Huant**
Phys. Stat. Solidi (b) **210**, 251 (1998).

- 81- Coulomb interactions in small charge-tunable quantum dots: A simple model**
R. J. Warburton, B. T. Miller, C. S. Dürr, C. Bödefeld, K. Karrai, J. P. Kotthaus, G. Medeiros-Ribeiro, P. M. Petroff, **S. Huant**
Phys. Rev. B **58**, 16221 (1998).
- 80- Far-infrared spectroscopy with high resolution cyclotron resonance filters**
C. Skierbiszewski, W. Knap, D. Dur, E.L. Ivchenko, **S. Huant**, B. Etienne
J. Appl. Phys. **84**, 433 (1998).
- 79- Cyclotron resonance in the conduction band of 6H-SiC in high magnetic fields up to 50 T**
M. Goiran, F. Engelbrecht, F. Yang, W. Knap, **S. Huant**, N. Negre, R. Barbaste, J. Léotin, S. Askenazy
5th International Symposium on Research in High Magnetic Fields, Sydney, 1997
Physica B **246-247**, 270 (1998).

1997

- 78- DX centers versus shallow D⁻ centers in Al_xGa_{1-x}As based quantum wells**
S. Huant, A. Mandray, G. Martinez, B. Etienne
Semicond. Sci. Technol. **12**, 813 (1997).
- 77- Novel cyclotron-resonance-intersubband coupling in tilted lateral superlattices**
S. Huant, M. Fischer, B. Etienne
Solid State Commun. **104**, 183 (1997).
- 76- Cyclotron resonance and quantum Hall effect studies of the two-dimensional electron gas confined at the GaN/AlGa_N interface**
W. Knap, S. Contreras, H. Alause, C. Skierbiszewski, J. Camassel, M. Dyakonov, J.L. Robert, J. Yang, Q. Chen, M. Asif Khan, M. Sadowski, **S. Huant**, F.H. Yang, M. Goiran, J. Leotin, M.S. Shur
Appl. Phys. Lett. **70**, 2123 (1997).
- 75- Few-electron ground states of charge-tunable self-assembled quantum dots**
B.T. Miller, W. Hansen, S. Manus, R.J. Luyken, A. Lorke, J.P. Kotthaus, **S. Huant**, G. Medeiros-Ribeiro, P.M. Petroff
Phys. Rev. B **56**, 6764 (1997).
- 74- Contactless characterisation of 2D-electrons in GaN/AlGa_N HFETs**
H. Alause, C. Skierbiszewski, M. Dyakonov, W. Knap, M.L. Sadowski, **S. Huant**, J. Young, M. Asif-Khan, Q. Chen, M. Shur
1st International Conference on Silicon Carbide and related Materials (ECSCRM 96), Heraklion, 1996
Diamond and Related Compounds **6**, 1536 (1997).
- 73- Spins and phonons in the spin-Peierls compound CuGeO₃**
P.H.M. van Loosdrecht, J.P. Boucher, **S. Huant**, G. Martinez, G. Dhalenne, A. Revcolevschi
International Conference on Strongly Correlated Electron Systems, Zürich, 1996
Physica B **230-232**, 1017 (1997).
- 72- Optical and electrical properties of 2-dimensional electron gas in GaN/AlGa_N heterostructures**
H. Alause, W. Knap, S. Contreras-Azema, J.M. Bluet, M.L. Sadowski, **S. Huant**, J. Young, M. Asif-Khan, Q. Chan, M. Shur
E-MRS 96 Spring Meeting, Strasbourg, 1996
Mat. Science Eng. B **46**, 79 (1997).
- 71- Resonant polaron effect of shallow indium donors in CdTe**
M. Grynberg, **S. Huant**, M.L. Sadowski, G. Martinez, J. Kossut, T. Wojtowicz, G. Karczewski, J.-M. Shi, F.M. Peeters, J.T. Devreese
Invited talk at the 7th International Conference on Shallow-Level Centers in Semiconductors, Amsterdam, 1996
Proceedings ed. by C.A.J. Ammerlaan and B. Bajot (World Scientific, Singapore, 1997), p. 1.

1996

- 70- The cyclotron effective mass of two-dimensional electrons confined at the GaN/AlGa_N interface**
H. Alause, W. Knap, S. Contreras-Azema, **S. Huant**, M.L. Sadowski, J.M. Bluet, J. Camassel, J.L. Robert, J. Young, M. Asif Khan, Q. Chen, M. Shur
23rd International Conference on the Physics of Semiconductors, Berlin, 1996
Proceedings ed. by M. Scheffler and R. Zimmermann (World Scientific, Singapore, 1996), p. 2151.
- 69- Anomalous cyclotron resonance in lateral-surface superlattices**
S. Huant, M. Fischer, B. Etienne
23rd International Conference on the Physics of Semiconductors, Berlin, 1996
Proceedings ed. by M. Scheffler and R. Zimmermann (World Scientific, Singapore, 1996), p. 1699.
- 68- Shallow D⁻ centres versus DX centres in AlGaAs quantum wells**
S. Huant, A. Mandray, G. Martinez, B. Etienne
23rd International Conference on the Physics of Semiconductors, Berlin, 1996
Proceedings ed. by M. Scheffler and R. Zimmermann (World Scientific, Singapore, 1996), p. 2789.

- 67- The cyclotron effective mass of two-dimensional electrons confined at the GaN/AlGaIn interface**
W. Knap, H. Alause, J.M. Bluet, J. Camassel, J. Young, M. Asif Khan, Q. Chen, **S. Huant** M. Shur
Solid State Commun. **99**, 195 (1996).
- 66- Magneto-polaron effect on shallow indium donors in CdTe**
M. Grynberg, **S. Huant**, G. Martinez, J. Kossut, T. Wojtowicz, G. Karczewski, J.-M. Shi, F.M. Peeters, J.T. Devreese
Phys. Rev. B **54**, 1467 (1996).
- 65- Dynamics in the dimerised and the high field incommensurate phase of CuGeO₃**
P.H.M. van Loosdrecht, **S. Huant**, G. Martinez, G. Dhalenne, A. Revcolevschi
Phys. Rev. B **54**, R3730 (1996).
- 64- Magneto-optical studies of laterally modulated nanostructures grown on GaAs vicinal substrates**
S. Huant, B. Etienne
11th International Conference on Electronic Properties of Two-Dimensional Systems, Nottingham, 1995
Surface Science **361/362**, 793 (1996).
- 1995**
- 63- Resonant bipolaron coupling in GaAs quantum wells**
S. Huant, B. Etienne, N. Coron
Phys. Rev. B **51**, 5488 (1995).
- 62- Observation of Cu²⁺ spin resonance in Gd₂CuO₄**
A.A. Stepanov, **S. Huant**, I.M. Vitebsky, P. Wyder, A. Chabanov, M.I. Kobets, V.A. Pashchenko, S.N. Barilo, D.I. Zhigunov
Phys. Rev. B **51**, 15596 (1995).
- 61- Magneto-optical effects on shallow donor states in 6H-SiC in high magnetic fields**
F. Engelbrecht, **S. Huant**, R. Helbig
Phys. Rev. B **52**, 11008 (1995).
- 60- Optical phonon assisted increase of impact ionization efficiency near the ultra quantum regime**
J. Lusakowski, **S. Huant**, M. Grynberg
Solid State Commun. **96**, 649 (1995).
- 59- DX centers versus shallow D⁻ centers in AlGaAs based quantum wells**
S. Huant, A. Mandray, B. Etienne
Invited talk at the 18th International Conference on defects in Semiconductors, Sendai, Japan, 1995
Materials Science Forum (Trans. Tech. Publications) **196-201**, 395 (1995).
- 58- Resonant bipolaron coupling of D⁻ centers in quantum wells**
S. Huant, B. Etienne
11th International Conference on High Magnetic Fields in Semiconductor Physics, Cambridge (MA), 1994
Proceedings ed. by D. Heiman (World Scientific, Singapore, 1995), p. 402.
- 57- Cyclotron resonance of low-concentration 2D electron gas in GaAs/AlGaAs heterostructures**
M. Seck, M. Potemski, **S. Huant**, P. Wyder, G. Weimann
International Symposium on Research in High Magnetic Fields, Nijmegen, 1994
Physica B **211**, 470 (1995).
- 56- Resonant bipolaron coupling in quantum wells**
S. Huant, A. Mandray, B. Etienne
22nd International Conference on the Physics of Semiconductors, Vancouver, 1994
Proceedings ed. by D.J. Lockwood (World Scientific, Singapore, 1995), p. 2351.
- 55- Localization and an increase of the efficiency of impact ionization in semi-insulating GaAs near the ultra quantum limit regime**
J. Lusakowski, **S. Huant**, M. Grynberg
11th International Conference on High Magnetic Fields in Semiconductor Physics, Cambridge (MA), 1994
Proceedings ed. by D. Heiman (World Scientific, Singapore, 1995), p. 212.
- 54- Electronic properties of D⁻ centers in quantum wells in magnetic fields**
S. Huant, A. Mandray, B. Etienne
Invited talk at the 6th International Conference on Shallow Level Centers in Semiconductors, Berkeley, 1994
Solid State Commun. **93**, 435 (1995).
- 53- Search for triplet states of D⁻ centers in quantum wells in high magnetic fields**
A. Mandray, **S. Huant**, A.B. Dzyubenko, A. Yu. Sivachenko, B. Etienne
22nd International Conference on the Physics of Semiconductors, Vancouver, 1994
Proceedings ed. by D.J. Lockwood (World Scientific, Singapore, 1995), p. 2255.
- 52- Conductivity of optically excited electrons in GaAs in quantizing magnetic fields**
J. Lusakowski, M. Grynberg, **S. Huant**
23rd International School of Semiconducting Compounds, Jascowiecz, 1994
Acta Physica Polonica A **87**, 482 (1995).
- 51- Optical studies of negative-donor centers in quantum wells in high magnetic fields**
S. Huant
Physica B **204**, 339 (1995).

1994

- 50- Triplet transitions of D⁻ centers in wells in high magnetic fields**
A.B. Dzyubenko, A. Mandray, **S. Huant**, A. Yu. Sivachenko, B. Etienne
Phys. Rev. B **50**, 4687 (1994).
- 49- Observation of Cu²⁺ electron spin resonance in Gd₂CuO₄**
A.A. Stepanov, **S. Huant**, I.M. Vitebsky, A. Chabanov, P. Wyder
4th Int. Conf. on Materials & Mechanisms of Superconductivity - High-T_c Superconductors, Grenoble, 1994
Physica C **235-240**, 1643 (1994).
- 48- Static and dynamic absorption measurements of the DX centre in Al_xGa_{1-x}As**
P. Kaczor, Z.R. Zytewicz, L. Dobaczewski, M. Godlewski, A. Mandray, **S. Huant**, J.C. Portal
17th International Conference on Defects in Semiconductors, Gmunden, 1993
Materials Science Forum (Trans. Tech. Publications) **143-147**, 1093 (1994).

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- 47- Well-width dependence of D⁻ cyclotron resonance in quantum wells**
S. Huant, A. Mandray, J. Zhu, T. Pang, S.G. Louie, B. Etienne
Phys. Rev. B **48**, 2370 (1993).
- 46- Reply to comment on "Lattice phonon modes in solid C₆₀ studied by far-infrared spectroscopy"**
S. Huant, J.B. Robert, G. Chouteau
Phys. Rev. Lett. **70**, 3177 (1993).
- 45- Spectroscopy of donors and donor-bound excitons in CdTe/Cd_{1-x}Zn_xTe multiple quantum wells**
R.T. Cox, A. Mandray, **S. Huant**, F. Bassani, K. Saminadayar, S. Tatarenko
E-MRS 1992, Spring Meeting: International Conference on Electronic Materials, Strasbourg, 1992
Mat. Science Eng. B **16**, 83 (1993).

1992

- 44- D⁻ doping of quantum wells**
A. Mandray, **S. Huant**, B. Etienne
21st International Conference on the Physics of Semiconductors, Beijing, 1992
Proceedings ed. by P. Jiang and H.-Z. Zheng (World Scientific, Singapore, 1992), p. 729.
- 43- Optical studies of shallow donors in CdTe quantum wells**
A. Mandray, **S. Huant**, R. Cox, F. Bassani, S. Tatarenko, K. Saminadayar
21st International Conference on the Physics of Semiconductors, Beijing, 1992
Proceedings ed. by P. Jiang and H.-Z. Zheng (World Scientific, Singapore, 1992), p. 1020.
- 42- Lattice phonon modes in solid C₆₀**
S. Huant, G. Chouteau, J.B. Robert, P. Bernier, C. Fabre, A. Rassat
21st International Conference on the Physics of Semiconductors, Beijing, 1992
Proceedings ed. by P. Jiang and H.-Z. Zheng (World Scientific, Singapore, 1992), p. 1824.
- 41- A far-infrared spectrometer based on cyclotron resonance emission sources**
W. Knap, D. Dur, A. Raymond, C. Meny, J. Leotin, **S. Huant**, B. Etienne
Rev. Sci. Instrum. **63**, 3293 (1992).
- 40- Observation des modes de phonons du réseau C₆₀ à 2 K**
S. Huant, G. Chouteau, J.B. Robert, P. Bernier, C. Fabre, A. Rassat, E. Bustarret
C.R. Acad. Sci. Ser. II (Paris) **314**, 1309 (1992).
- 39- Nonparabolicity effects on cyclotron mass in GaAs quantum wells**
S. Huant, A. Mandray, B. Etienne
Phys. Rev. B **46**, 2613 (1992).
- 38- Formation of stable D⁻ centres in quantum wells**
A. Mandray, **S. Huant**, B. Etienne
Europhys. Lett. **20**, 181 (1992).
- 37- Lattice phonon modes in solid C₆₀ studied by far-infrared spectroscopy**
S. Huant, J.B. Robert, G. Chouteau, P. Bernier, C. Fabre, A. Rassat
Phys. Rev. Lett. **69**, 2666 (1992).
- 36- Electronic properties of two-dimensional D⁻ centers**
S. Huant, A. Mandray, G. Martinez, M. Grynberg, B. Etienne
9th International Conference on the Electronic Properties of Two-Dimensional Systems, Nara, 1991
Surface Science **263**, 565 (1992).
- 35- Negative donor centres in quantum wells**
S. Huant, A. Mandray, B. Etienne
Invited talk at the 12th General Conference the Condensed Matter Division of the EPS, Praha, 1992
Physica Scripta **T45**, 145 (1992).

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- 34- Far-infrared magneto-optical studies of the polaron effect in low-dimensional GaAs-(Ga,Al)As structures**
 C. Langerak, J. Singleton, J. Perenboom, F.M. Peeters, J.T. Devreese, D.J. Barnes, R.J. Nicholas, **S. Huant**, J.J. Harris, C.T. Foxon, B. Etienne
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- 33- Two-dimensional D⁻ centers**
S. Huant, S.P. Najda, B. Etienne
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- 32- Two-dimensional D⁻ centres in selectively doped GaAs-GaAlAs quantum wells**
 S.P. Najda, **S. Huant**, B. Etienne
 4th International Conference on Shallow Impurities in Semiconductors, London, 1990
 Proceedings ed. by G. Davies (Trans. Tech. Publ., Zürich, 1990), p. 123.
- 31- Impurity states and phenomena in quantum wells: Two-dimensional D⁻ centres and tunable resonant polaron strength**
S. Huant, S.P. Najda, W. Knap, G. Martinez, B. Etienne, C. Langerak, J. Singleton, R. Thomeer, G. Hai, F.M. Peeters, J.T. Devreese
Invited talk at the 20th International Conference on the Physics of Semiconductors, Thessaloniki, 1990
 Proceedings ed. by E.M. Anastassakis and J.D. Joannopoulos (World Scientific, Singapore, 1990), p. 1369.
- 30- Magneto-emission from shallow donors in quantum wells**
 W. Knap, **S. Huant**, C. Chaubet, B. Etienne
Superlatt. and Microstruc. **8**, 313 (1990).
- 29- Impurity-related photoluminescence recombination in planar-doped GaAs-GaAlAs multi-quantum-well structures**
 R. Stepniewski, **S. Huant**, G. Martinez, B. Etienne, V. Thierry-Mieg
 17th School on the Physics of Semiconducting Compounds, Jaszowiec, 1989
Acta Phys. Polon. **A77**, 221 (1990).

1989

- 28- Coupling between magnetoplasmon and cyclotron in a very high mobility two-dimensional gas**
S. Huant, G. Martinez, B. Etienne
Europhys. Lett. **9**, 397 (1989).
- 27- Comment on « Electron-optical phonon interaction in semiconductor multiple quantum-well structures »**
S. Huant, G. Martinez
Phys. Rev. Lett. **62**, 1924 (1989).
- 26- Photoluminescence studies of planar-doped GaAs-GaAlAs multiple-quantum-well structures**
 R. Stepniewski, **S. Huant**, G. Martinez, B. Etienne
Phys. Rev. B **40**, 9772 (1989).
- 25- Quasi two-dimensional shallow donors in a high magnetic field**
S. Huant, W. Knap, R. Stepniewski, G. Martinez, V. Thierry-Mieg, B. Etienne
 Int. Conf. on the Application of High Magnetic Fields in Semiconductor Physics, Würzburg, 1988
 Proceedings ed. by G. Landwehr (Springer, Berlin, 1989), p. 293.
- 24- Magneto-optical properties of shallow donors in planar doped GaAs-GaAlAs multiple quantum wells**
S. Huant, R. Stepniewski, G. Martinez, V. Thierry-Mieg, B. Etienne
 4th International Conference on Superlattices, Microstructures, and Microdevices, Trieste, 1988
Superlatt. and Microstruc. **5**, 331 (1989).
- 23- Tilted-field cyclotron resonance in a very high mobility 2DEG**
S. Huant, G. Martinez, B. Etienne
 4th International Conference on Superlattices, Microstructures, and Microdevices, Trieste, 1988
Superlatt. and Microstruc. **6**, 103 (1989).

1988

- 22- Observation of a gap in the coupled intersubband cyclotron resonance excitations in a quasi two-dimensional gas**
S. Huant, M. Grynberg, G. Martinez, B. Etienne
Solid State Commun. **65**, 457 (1988).
- 21- Magneto-optical studies of shallow donors in selectively doped GaAs-GaAlAs multiple quantum wells**
S. Huant, M. Grynberg, G. Martinez, B. Etienne, B. Lambert, A. Regreny
Solid State Commun. **65**, 1467 (1988).
- 20- Magneto-optical response of a multilayered semiconducting material in the optical phonon energy region**
 K. Karraï, **S. Huant**, G. Martinez, L.C. Brunel
Solid State Commun. **66**, 355 (1988).

19- Polaron Landau levels in InSb : A study of the influence of band nonparabolicity

S. Huant, K. Karraï
Phys. Rev. B **37**, 6955 (1988).

18- Quasi two-dimensional resonant bound polarons

S. Huant, W. Knap, G. Martinez, B. Etienne
Europhys. Lett. **7**, 159 (1988).

1987

17- New wavelengths measurements and laser lines in optically pumped methanol and methanol analogues

S. Huant, M.A. Hopkins, K. Karrai, G. Dampne, R.J. Nicholas, L.C. Brunel
Rev. Phys. Appl. **22**, 205 (1987).

16- Magneto-optical studies of semiconductors with an optically pumped far infrared laser

F. Muller, **S. Huant**, K. Karrai, G. Dampne, M. Grynberg, G. Martinez, and L.C. Brunel
1st International Laser M2P Conference, Lyon-Villeurbanne, 1987
J. Phys. (France) **48**, C7-717 (1987).

1986

15- A study of n-type Ga_xIn_{1-x}As_yP_{1-y} quantum wells

J.C. Portal, R.J. Nicholas, M.A. Brummel, L.C. Brunel, **S. Huant**, M. Razeghi, M. Laviro
Semicond. Sci. Technol. **1**, 3 (1986).

14- Shallow donors in zinc-blende semiconductors. I. Theory

W. Trzeciakowski, M. Baj, **S. Huant**, L.C. Brunel
Phys. Rev. B **33**, 6846 (1986).

13- Shallow donors in zinc-blende semiconductors. II. Magneto-optical study of InSb under hydrostatic pressure

L.C. Brunel, **S. Huant**, M. Baj, W. Trzeciakowski
Phys. Rev. B **33**, 6863 (1986).

12- Pressure dependence of the electronic effective mass and effective g-factor in the narrow-gap semiconductor InSb

S. Huant, L. Dmowski, M. Baj, L.C. Brunel
Phys. Stat. Solidi (b) **135**, K129 (1986).

11- Frequency-shifted polaron coupling in Ga_{0.47}In_{0.53}As heterostructures

L.C. Brunel, **S. Huant**, R.J. Nicholas, M.A. Hopkins, M.A. Brummel, K. Karrai, J.C. Portal, M. Razeghi, K.Y. Cheng, A.Y. Cho
6th International Conference on the Electronic Properties of Two-Dimensional Systems, Kyoto, 1985
Surface Science **170**, 542 (1986).

10- Electron-optic phonon in GaInAs based heterostructures

R.J. Nicholas, M.A. Brummel, M.A. Hopkins, L.C. Brunel, **S. Huant**, J.C. Portal, M. Razeghi, K.Y. Cheng, A.Y. Cho
Invited talk at the 14th School on the Physics of Semiconducting Compounds, Jaszowiec, 1985
Acta Phys. Polon. A **69**, 851 (1986).

1985

9- New impurity related transitions in n-InSb

S. Huant, L.C. Brunel, M. Baj, L. Dmowski, N. Coron, G. Dambier
Solid State Commun. **54**, 131 (1985).

8- Shallow donor spectroscopy and polaron coupling in Ga_{0.47}In_{0.53}As

R.J. Nicholas, C.K. Sarkar, L.C. Brunel, **S. Huant**, J.C. Portal, M. Razeghi, J.C. Chevrier, J. Massies, H.M. Cox
J. Phys. C: Solid State Phys. **18**, L427 (1985).

7- Frequency-shifted polaron coupling in Ga_{0.47}In_{0.53}As heterojunctions

R.J. Nicholas, L.C. Brunel, **S. Huant**, K. Karraï, J.C. Portal, M.A. Brummel, M. Razeghi, K.Y. Cheng, A.Y. Cho
Phys. Rev. Lett. **55**, 883 (1985).

6- The interaction between deep and shallow in InSb and GaAs in high magnetic fields and hydrostatic pressure

Z. Wasilewski, R.A. Stradling, M. Baj, L.C. Brunel, **S. Huant**, W. Trzeciakowski, S. Porowski
13th School on the Physics of Semiconducting Compounds, Jaszowiec, 1984
Acta Phys. Polon. A **67**, 405 (1985).

5- Shallow donors in high magnetic fields in InSb under hydrostatic pressure

M. Baj, L.C. Brunel, **S. Huant**, W. Trzeciakowski, Z. Wasilewski, R.A. Stradling
17th International Conference on the Physics of Semiconductors, San Francisco, 1984
Proceedings ed. by J.D. Chadi and W.A. Harrison (World Scientific, New-York, 1985) p. 667.

1984

4 - Shubnikov - De Haas effect and cyclotron resonance in p-CdSb

J. Cisowski, J.C. Portal, E.K. Arushanov, J.M. Broto, **S. Huant**, L.C. Brunel
Phys. Stat. Solidi (b) **121**, 289 (1984).

3- Intraconduction band magneto-optical study of InSb under hydrostatic pressure

S. Huant, L. Dmowski, M. Baj, and L.C. Brunel

Phys. Stat. Solidi (b) **12 5**, 215 (1984).

2- Cyclotron resonance and polaron effects in a two dimensional electron gas in GaInAs

M.A. Brummel, R.J. Nicholas, L.C. Brunel, **S. Huant**, M. Baj, J.C. Portal, M. Razeghi, M.A. Di Forte Poisson, K.Y. Cheng, A.Y. Cho

5th International Conference on the Electronic Properties of Two-Dimensional Systems, Oxford, 1983

Surface Science **142**, 380 (1984).

1983

1- Amorphous to microcrystalline transitions in Si films

E. Bustarret, B. Ranchoux, H. Hamdi, A. Deneuve, **S. Huant**, P. Depelsenaire

16th International Conference on the Physics of Semiconductors, Montpellier, 1982

Physica **118B**, 950 (1983).

SOME ADDITIONAL INTERNATIONAL OR NATIONAL CONFERENCES WITHOUT CONTRIBUTION TO A PROCEEDINGS

(if applicable, the name of the invited speaker is underlined)

- 57 - Near-field optical microscopy with a nanodiamond-based single-photon tip**
A. Cuche, A. Drezet, S. Huant, F. Treussart, J.-F. Roch
Invited talk at Int. School and Workshop on Nanoscience and Nanotechnology, Frascati (Italy), Oct. 2009.
- 56 - Viscous cavity damping of microlevers in a simple fluid: implications for MEMS and NEMS design**
A. Siria, A. Drezet, S. Huant, J. Chevrier
Invited talk at Int. School and Workshop on Nanoscience and Nanotechnology, Frascati (Italy), Oct. 2009.
- 55 - Imaging electron transport close to filling factor $\nu = 2$ in a quantum ring**
F. R. Martins, B. Hackens, M. Pala, H. Sellier, X. Wallart, S. Huant, V. Bayot
18th Int. Conf. Electronics Properties of Two-Dimensional Systems, Kobe, July 2009 (oral by FRM)
- 54 - Scanning gate microscopy on quantum rings: influence of the magnetic field and of charged defects**
M. Pala, F. R. Martins, B. Hackens, H. Sellier, S. Huant, V. Bayot
18th Int. Conf. Electronics Properties of Two-Dimensional Systems, Kobe, July 2009 (poster)
- 53 - Sondes actives fluorescentes pour l'optique en champ proche: quelques développements récents**
A. Cuche, Y. Sonnefraud, G. Ledoux, D. Amans, C. Dujardin, P. Mélinon, B. Masenelli, S. Huant
Présentation invitée à l'atelier thématique "Optique et sondes locales" du "Forum des microscopies à sondes locales", Hardelot, Mars 2009.
- 52 - Fluorescent oxide nanoparticles adapted to active tips for near-field optics**
A. Cuche, Y. Sonnefraud, G. Ledoux, D. Amans, C. Dujardin, P. Mélinon, B. Masenelli, S. Huant
1st Transalp Nano Conference, Lyon, October 2008 (poster).
- 51 - Photon correlation and NSOM applied to the sorting of nanodiamonds**
A. Cuche, Y. Sonnefraud, O. Faklaris, D. Garrot, J.-P. Boudou, T. Sauvage, J.-F. Roch, F. Treussart, S. Huant
10th Int. Conf. on near-field optics (NFO10), Buenos Aires, Argentine, September 2008 (oral by AC)
- 50 - Scanning-Gate Microscopy images the electronic LDOS inside nanostructures**
S. Huant, F. Martins, M. G. Pala, B. Hackens, H. Sellier, T. Ouisse, V. Bayot
11th Int. Conf. Non-Contact Atomic Force Microscopy, Madrid, September 2008 (oral by SH).
- 49- Imaging the electron local density of states inside semiconductor quantum rings**
B. Hackens, F. Martins, M. Pala, H. Sellier, T. Ouisse, X. Wallart, S. Bollaert, A. Cappy, V. Bayot, S. Huant
29th Int. Conf. Physics of Semiconductors, Rio de Janeiro, August 2008 (oral by BH)
- 48 - Nanodiamants de 25nm contenant un centre coloré NV unique détectés par corrélation de photons en microscopie optique en champ proche.**
A. Cuche, Y. Sonnefraud, O. Faklaris, D. Garrot, J.-P. Boudou, T. Sauvage, J.-F. Roch, F. Treussart, S. Huant
Forum des microscopies à sondes locales", La Londe les Maures, Mars 2008 (oral par AC).
- 47 - Microscopie AFM ultrasensible en force pour la caractérisation de la force de Casimir.**
J. Etienne, A. Mosset, J. F. Motte, H. Sellier, G. Jourdan, J. Chevrier, S. Huant
Forum des microscopies à sondes locales", La Londe les Maures, Mars 2008 (poster).
- 46 - Sondes actives nanométriques pour la photonique à base de nanoparticules isolantes**
A. Cuche, Y. Sonnefraud, J.-F. Motte, S. Huant, B. Masenelli, P. Melinon, D. Amans, G. Ledoux, C. Dujardin
Forum des microscopies à sondes locales", La Londe les Maures, Mars 2008 (poster).
- 45 - Scanning gate transconductance imaging of mesoscopic rings**
H. Sellier, F. Martins, T. Ouisse, S. Huant, B. Hackens, V. Bayot, J. Chevrier, S. Bollaert, X. Wallart, A. Cappy
13th Int. Conf. on Modulated Semiconductor structures (MSS-13), Genova, July 2007 (oral by HS)
- 44 - Imaging electron wavefunctions inside quantum rings**
B. Hackens, F. Martins, M.G. Pala, T. Ouisse, H. Sellier, S. Huant, V. Bayot, J. Chevrier, S. Bollaert, X. Wallart, A. Cappy
17th Int. Conf. on Electronic Properties of Two-Dimensional Systems (EP2DS-17), Genova, July 2007 (poster)
- 43 - Sub-wavelength photonics with a single CdSe quantum dot as source of light.**
Y. Sonnefraud, A. Cuche, J.-F. Motte, S. Huant, M. Burnett, S.A. Maier, P. Reiss
E-MRS spring meeting, Strasbourg, May 2007 (oral by YS)
- 42- Sondes actives nanométriques pour la photonique à base de nanoparticules isolantes**
A. Cuche, Y. Sonnefraud, G. Ledoux, D. Amans, C. Dujardin, P. Melinon, B. Masenelli, S. Huant
Forum des microscopies à sondes locales", Troyes, Mars 2007 (poster).
- 41- Imagerie par sonde locale du transport quantique dans des anneaux quantiques**
B. Hackens, F. Martins, T. Ouisse, H. Sellier, J. Chevrier, A. Cappy, X. Wallart, V. Bayot, S. Huant
Forum 2007 des microscopies à sonde locale, Troyes (oral par SH).
- 40- Imaging and controlling electron transport inside a quantum ring**
B. Hackens, F. Martins, T. Ouisse, H. Sellier, S. Huant, V. Bayot, M. Pala, J. Chevrier, S. Bollaert, X. Wallart, A. Cappy
Invited talk at the "First meeting on solid-state physics between Grenoble/CNRS and Beijing/IoP-CAS", Grenoble, 27-29 November 2006.
- 39 -Real-space imaging of electron flow in Aharonov-Bohm rings**
B. Hackens, F. Martins, T. Ouisse, H. Sellier, S. Huant, V. Bayot, J. Chevrier, S. Bollaert, X. Wallart, A. Cappy

- 28th Int. Conf. Physics of Semiconductors, Vienna, July 2006 (oral by BH)
- 38- Optical imaging with a single CdSe nanocrystal**
Y. Sonnefraud, N. Chevalier, J.-F. Motte, **S. Huant**, M. Burnett, S.A. Maier, P. Reiss, J. Bleuse, F. Chandezon
28th Int. Conf. Physics of Semiconductors, Vienna, July 2006 (poster)
- 37 - Towards near-field optics with a single CdSe nanocrystal as light source**
Y. Sonnefraud, N. Chevalier, J.F. Motte, **S. Huant**, M. Burnett, S.A. Maier, P. Reiss, J. Bleuse, F. Chandezon
9th Int. conf. on near-field optics, nanophotonics & related techniques (NFO-9), Lausanne, 2006 (poster)
- 36 - Towards optical imaging with a single CdSe nanocrystal**
Y. Sonnefraud, N. Chevalier, P. Reiss, M. Burnett, J. F. Motte, J. Bleuse, F. Chandezon, S. A. Maier, **S. Huant**
9th Int. Conf. on Hole Burning, Single Molecule and Related Spectroscopies: Science and Applications (HBSM'06), Aussois (F), June 2006 (poster)
- 35 - Scanning Gate Microscopy on Aharonov-Bohm rings in a magnetic field: experiments and simulations**
B. Hackens, F. Martins, T. Ouisse, J.F. Motte, M. Stark, H. Sellier, J. Chevrier, **S. Huant**, V. Bayot, S. Bollaert, X. Wallart, A. Cappy
2006 APS March Meeting, Session V47, Baltimore (oral by BH)
- 34 - Observation of a periodic structure in quantum rings using Scanning Gate Microscopy**
F. Martins, B. Hackens, T. Ouisse, J.F. Motte, M. Stark, H. Sellier, J. Chevrier, **S. Huant**, V. Bayot, S. Bollaert, X. Wallart, A. Cappy
2006 APS March Meeting, Session V47, Baltimore (oral by FM)
- 33 - CdSe single nanocrystal-based active tips for near-field optical microscopy**
Y. Sonnefraud, N. Chevalier, J.F. Motte, **S. Huant**, P. Reiss, J. Bleuse, F. Chandezon, M. Burnett, S.A. Maier
2nd Int. Workshop on Nanoscience with Nanocrystals: NanaX 2, Autrans, January 2006 (oral by YS)
- 32- Near-Field Scanning Optical Microscopy : a brief overview**
S. Huant
Invited talk at "X-TIP: Workshop on the Coupling of Synchrotron Radiation IR and X-rays with Tip based Scanning Probe Microscopies", November 2005, ESRF Grenoble, France.
- 31- Le champ proche optique : développements récents**
Y. Sonnefraud, N. Chevalier, J.F. Motte, **S. Huant**
Communication invitée aux "Journées Nanosciences et Nanotechnologies en Rhône-Alpes, JNNRA'05", Novembre 2005, Lyon.
- 30- Cartographie des modulations de densité de probabilité électronique au sein d'anneaux quantiques**
F. Martins, B. Hackens, J.F. Motte, T. Ouisse, V. Bayot, J. Chevrier, **S. Huant**
Journées Nanosciences et Nanotechnologies en Rhône-Alpes, JNNRA'05, Novembre 2005, Lyon (poster)
- 29- Localised deposition of a conducting polymer using an optoelectronic probe**
P. Actis, S. Szunerits, **S. Huant**
Journées Nanosciences et Nanotechnologies en Rhône-Alpes, JNNRA'05, Novembre 2005, Lyon (poster)
- 28- CdSe-single-nanocrystal based active tips for near-field optical microscopy**
N. Chevalier, Y. Sonnefraud, J.F. Motte, **S. Huant**, P. Reiss, J. Bleuse, F. Chandezon
Forum des microscopies à sondes locales 2005, Anglet, Mars-Avril 2005 (oral donné par NC)
- 27- Observation AFM de la morphologie de matériaux mixtes polymères/liquides ioniques**
F. Habrard, T. Ouisse, O. Stéphan, M. Armand, M. Stark, F. Martins, **S. Huant**, J. Chevrier
Forum des microscopies à sondes locales 2005, Anglet, Mars-Avril 2005 (poster)
- 26- Microscopie EFM en régime d'amplification paramétrique**
T. Ouisse, M. Stark, F. Martins, **S. Huant**, J. Chevrier
Forum des microscopies à sondes locales 2005, Anglet, Mars-Avril 2005 (oral par TO)
- 25- Sondes actives à base de nanocristaux individuels de CdSe pour l'optique en champ proche**
N. Chevalier, M.J. Nasse, Y. Sonnefraud, J.F. Motte, J.C. Woehl, **S. Huant**, P. Reiss, J. Bleuse, F. Chandezon
Journées Nanoscience Nanotechnologie en Rhône-Alpes, JNNR'04, Grenoble (oral par SH)
- 24 - Mesure de force électrique faible dans un régime d'amplification paramétrique**
T. Ouisse, M. Stark, F. Martins, B. Bercu, **S. Huant**, J. Chevrier
Journées Nanoscience Nanotechnologie en Rhône-Alpes, JNNR'04, Grenoble (poster)
- 23 - Low-temperature AFM: towards the electrostatic characterization of semiconductor nanostructures**
F. Martins, M. Stark, B. Bercu, Ouisse T., Motte J.F., F. Marchi, J. Chevrier, **S. Huant**
Journées Nanoscience Nanotechnologie en Rhône-Alpes, JNNR'04, Grenoble (poster)
- 22- Near-Field Optical Studies of Semiconductor Nanostructures**
S. Huant, A. Drezet, N. Chevalier, M. Brun
Invited lecture et Summer school: "Fabrication, manipulation and spectroscopy of nanostructures", NANOSPECTRA 2004, Porquerolles, France, June 2004
- 21- Temperature dependence of dynamics properties of a free cantilever**
F. Martins, M. Stark, J.F. Motte, F. Marchi, J. Chevrier, and **S. Huant**
Forum 2004 des Microscopies à Sondes Locales, Aix les Thermes, France, Mars 2004
- 20- Adressage optique en champ proche de nano-objets individuels**
N. Chevalier, M. Brun, A. Drezet, J.-F. Motte, J.C. Woehl, and **S. Huant**
Forum 2004 des Microscopies à Sondes Locales, Aix les Thermes, France, Mars 2004
- 19- Sonder la lumière d'un microscope confocal et NSOM à l'aide de nanobilles fluorescentes**
M.J. Nasse, A. Drezet, **S. Huant**, and J.C. Woehl

- Forum 2004 des Microscopies a Sondes Locales, Aix les Thermes, France, Mars 2004
- 18- Détection de charges électriques dans des nano-objets semi-conducteurs par microscopie a force électrique a basse température**
M. Stark, B. N. Bercu, F. Marchi, J. Chevrier, **S. Huant**
Forum 2003 des Microscopies a Sondes Locales, La Grande-Motte, France, April 2003
- 17- Near-field scanning optical microscopy of single nano-objects**
M. Brun, A. Drezet, **S. Huant**, and **J.C. Woehl**
Invited talk at Int. Conf. on « Scanning Probe Microscopy », Nizhny Novgorod, Russia, March 2003
- 16- Remote optical addressing of single nano-objects**
M. Brun, A. Drezet, **S. Huant**, J.F. Motte, and J.C. Woehl
Invited talk at 3rd Lyon-Workshop on Nano-Optics, Lyon, Feb. 2003
- 15- Microscopie en champ proche optique : Nouvelles possibilités pour l'étude et la manipulation de molécules uniques**
A. Drezet, **S. Huant**, and J.C. Woehl
Colloque National "Nano-objets individuels", Bordeaux, Mai 2000
- 14- Comportement radiatif d'un pointe NSOM en champ lointain**
A. Drezet, J.C. Woehl, et S. Huant
Ecole thématique « Optique du Champ Proche », La Londe les Maures, Mars 2000
- 13- Une expérience préliminaire : fluorescence de billes sub-longueur d'onde sur une couche de PMMA**
A. Drezet, J.C. Woehl, J.F. Motte, et **S. Huant**
Ecole thématique « Optique du Champ Proche », La Londe les Maures, Mars 2000
- 12- Spectroscopie optique en champ proche à basse température de structures semi-conductrices : résultats préliminaires.**
M. Brun, J.F. Motte, J.C. Woehl, H. Mariette, et **S. Huant**
Ecole thématique « Optique du Champ Proche », La Londe les Maures, Mars 2000
- 11- Etude magnéto-optique d'hétérostructures épitaxiées sur surfaces vicinales**
S. Huant et B. Etienne
Ecole thématique "Les effets de gradients internes dans les semiconducteurs", Marseille, Septembre 1994
- 10- Doping GaAs & (Al,Ga)As quantum wells with D⁻ centres**
A. Mandray, **S. Huant**, and B. Etienne
13th General Conference of the Condensed Matter Division of the EPS, Regensburg, March 1993.
Europhys. Conf. Abst. **17A**, 1450, (1993)
- 9- Far-infrared spectroscopy of the phase transition in the heavy-fermion system CeNiSn in high magnetic fields**
J. Köning, L.P. Lévy, **S. Huant**, P. Wyder, and E. Bucher
13th General Conference of the Condensed Matter Division of the EPS, Regensburg, March 1993.
Europhys. Conf. Abst. **17A**, 1088, (1993)
- 8- Lattice phonon modes in solid C₆₀: a temperature study**
S. Huant, J.B. Robert, et G. Chouteau, P. Bernier, C. Fabre, and A. Rassat
Materials Research Society, Fall Meeting 1992, Boston, December 1992.
- 7- Etude des modes de phonons du réseau en fonction de la température dans le C₆₀ solide**
S. Huant, J.B. Robert, et G. Chouteau, P. Bernier, C. Fabre, et A. Rassat
Journées de la Matière Condensée de la Société Française de Physique, Lille, Septembre 1992.
- 6- Caractérisation magnéto-optique de profile de dopage dans les puits quantiques : cas du CdTe**
S. Huant, A. Mandray, F. Bassani, S. Tatarenko, N. Magnéa, H. Mariette, V. Thierry-Mieg, et B. Etienne
Colloque National du Groupement de Recherche « Semiconducteurs II-VI », Autrans, Mars 1992.
- 5- Propriétés électroniques des impuretés de type donneur dans des multi-puits quantiques GaAs-GaAlAs sous champ magnétique intense**
S. Huant, W. Knap, G. Martinez, et B. Etienne
Journées de la Matière Condensée de la Société Française de Physique, Toulouse, Septembre 1988.
- 4- Shallow donor spectroscopy in high magnetic fields in Ga_{0.47}In_{0.53}As**
C.K. Sarkar, R.J. Nicholas, D.C. Rogers, L.C. Brunel, **S. Huant**, J.C. Portal, M. Razeghi, J. Chevrier, J. Massies, and H.D. Cox
Invited talk at Int. Conf. on Physics and Technology of Compensated Semiconductors, Madras (Inde), 1985.
- 3- Interaction between shallow and deep impurity states in InSb**
M. Baj, Z. Wasilewski, L.C. Brunel, **S. Huant**, W. Trzeciakowski, R.A. Stradling, and S. Porowski
First International Conference on Shallow Centers in Semiconductors, Berkeley, 1984
Solid State Commun. **53**, 1145, (1984) (abstract only).
- 2- Shallow donors in high magnetic fields in narrow-gap semiconductors**
W. Trzeciakowski, **S. Huant**, and M. Baj
First International Conference on Shallow Centers in Semiconductors, Berkeley, 1984
Solid State Commun. **53**, 1144, (1984) (abstract only).
- 1- Magneto-optical study of shallow donors in InSb under hydrostatic pressure**
L.C. Brunel, M. Baj, **S. Huant**, Z. Wasilewski, and R.A. Stradling
First International Conference on Shallow Centers in Semiconductors, Berkeley, 1984
Solid State Commun. **53**, 1144, (1984) (abstract only).

Serge Huant

SEMINAIRES INVITES depuis 2001

- 15) *Scanning-gate imaging of coherent transport in semiconductor nanostructures.*
Imperial College, London, UK, 12 November 2008
- 14) *Scanning-probe imaging of coherent electron transport inside quantum rings.*
University of Warsaw, Seminar on Solid-State Physics - Friday seminar- 11 May 2007
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