



**MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD**

DIRECCIÓN GENERAL DE INVESTIGACIÓN
CIENTÍFICA Y TÉCNICA

SUBDIRECCIÓN GENERAL DE RECURSOS
HUMANOS PARA LA INVESTIGACIÓN

Curriculum vitae

Total number of pages: 39

Name: SNEŽANA LAZIĆ

Date: 07/06/2023

PERSONAL DATA

Family name: Lazić
Forename: Snežana
ID/Passport no: X5028350-K / 014115764
Nationality: Serbian
Date of birth: 04/10/1976
Gender: Female



Business vCard

CURRENT PROFESSIONAL POSITION

Institution: Universidad Autónoma de Madrid
Faculty, School or Institute: Faculty of Science (Facultad de Ciencias)
Department: Department of Physics of Materials (Departamento de Física de Materiales)
Address: C/ Francisco Tomás y Valiente nº 7, Ctra. Colmenar Viejo Km. 15
Post Cod: 28049
Province: Madrid
Country: Spain

Telephone (indicate prefix, number and extension): (+34) 620 223 815, (+34) 91 497 2601
Fax: (+34) 91 497 8579
E-mail: lazic.snezana@uam.es, lazic.snezana@gmail.com

Field of study (UNESCO codes): Physics (22)

Physics and Space Sciences (FI) - Condensed Material Physics

Professional status: Profesor Contratado Doctor (Associate Professor) Start date: 21/12/2018

Administrative status

- Permanent Staff
 Hired on contracts
 Acting
 Fellowship holder
 Others specify:

Full-time
Part-time

RESEARCH AREAS

Brief summary (key words).

Nanotechnology, material science, solid-state physics, low-temperature physics, semiconductor device physics, photonics, quantum optics, quantum information technology, condensed matter physics, acoustics in the solid state

ACADEMIC BACKGROUND

Bachelor	Centre	Date
Graduate Electrical Engineer (Dipl.-Ing.) -Equivalent to a Master's degree -Diploma Thesis: "(Al,Ga)N based High Electron Mobility Transistors (HEMTs) for microwave and RF control applications" -Homologated to Spanish degree of "Ingeniería Superior Licenciada en Ingeniería Eléctrica", Date: 01/13/2006	University of Belgrade (Serbia) - Faculty of Electrical Engineering - Department of Optoelectronics and Laser Engineering	03/04/2001

<i>Master</i>	<i>Centre</i>	<i>Date</i>
Diploma de Estudios Avanzados - Area of knowledge: Applied Physics - Research work: "Raman spectroscopy of group-III nitride nanocolumns"	Universidad Autónoma de Madrid (Spain) - Faculty of Science - Department of Physics of Materials	11/10/2006
Master of Business Administration - Global Communities MBA	Instituto de Empresa Business School, Madrid (Spain)	17/09/2007

<i>Ph.D.</i>	<i>Centre</i>	<i>Thesis Supervisor</i>	<i>Date</i>
Physics -Doctoral Program: Physics of Materials -Doctoral Dissertation: "Optical properties of nitride semiconductor structures" -Qualification: SOBRESALIENTE "CUM LAUDE" - highest honors	Universidad Autónoma de Madrid (Spain) - Faculty of Science - Department of Physics of Materials	Prof. Dr. José Manuel Calleja	27/03/2008

PAST SCIENTIFIC EXPERIENCE

<i>Position</i>	<i>R&D Centre</i>	<i>Institution</i>	<i>Start date</i>	<i>End date</i>
Profesor Contratado Doctor [Associate Professor]	Department of Physics of Materials, Faculty of Science	Universidad Autónoma de Madrid - Madrid (Spain)	21/12/2018	present
Research Associate - 'Ramón y Cajal' Holder of the prestigious Competitive Spanish Research Grant for hiring researchers with an outstanding track record (tenure-track equivalent)	Department of Physics of Materials, Faculty of Science	Universidad Autónoma de Madrid - Madrid (Spain)	01/04/2012	21/12/2018
Arbeitsvertrag TVöD – Wissenschaftliche Mitarbeiterin [Employment Contract TVöD – Research Associate]	Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V.	Leibniz Research Association - Berlin (Germany)	01/02/2011	31/03/2012
Gastwissenschaftlerin (Visiting Research Contract)	Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V.	Leibniz Research Association - Berlin (Germany)	01/11/2009	31/01/2011
Postdoctoral Research Associate	Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V.	Leibniz Research Association - Berlin (Germany)	01/08/2008	31/10/2009
Postdoctoral Research Associate	Photonics Group, Edward S. Rogers Sr. Department of Electrical and Computer Engineering	University of Toronto - Toronto (Canada)	25/04/2008	25/07/2008
Ph.D. Researcher, FPU Grant Holder: University Professorship Formation Program funded by Spanish Ministry of Education, Culture and Sport (MECD)	Department of Physics of Materials, Faculty of Science	Universidad Autónoma de Madrid - Madrid (Spain)	01/02/2004	31/01/2008
PhD Student in Training under research project: – Ref.: MAT2002-00139	Department of Physics of Materials, Faculty of Science	Universidad Autónoma de Madrid - Madrid (Spain)	01/01/2003	31/12/2003
Metrology Electrical Engineer	Metrology Laboratory	Aeronautical Plant "Moma Stanojlović" - Belgrade (Serbia)	08/06/2001	14/03/2003

LANGUAGES (N = NORMAL, G = GOOD, P = PERFECTLY)

<i>Language</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
Serbian / Croatian	P (native)	P (native)	P (native)
English	P	P	P
Spanish	P	P	P
German	N	N	N

- Goethe-Institute Certificate in German language (Level 2.1)

PARTICIPATION IN RESEARCH PROJECTS

PROJECT TITLE: Development of Hydrogen Compressors (NO-DEPENDENCE)

Ref.: SPS MYP G6037

FINANCIAL ENTITY: NATO Partnership and Cooperative Security Committee – Science for Peace and Security (SPS) Programme

PROJECT DURATION: 36 Months starting with Kick-off meeting that will be held on 12/06/2023 at 10:00 CET with NATO Assistant Secretary General (Emerging Security Challenges Division) Mr. David Van Weel

NATO COUNTRY PROJECT DIRECTOR: Dr. Vanja Asanovic (Montenegro)

PROJECT CO-DIRECTORS: Dr. Snezana Lazic (Spain), Dr. Jasmina Grbovic Novakovic (Serbia),

FINANCING: 350,000.00 €

PROJECT TITLE: Advanced sustainable structures for energy and photonics (ASSESS)

Ref.: TED2021-129666B-C21 (Coordinated project)

FINANCIAL ENTITY: Spanish Ministry of Science and Innovation (MCI) – State Programme: Strategic Projects Aimed at Ecological & Digital Transition”

LENGHT FROM: December 01, 2022 TO: November 30, 2023

PRINCIPAL INVESTIGATOR: IP1: Dr. Ana Raquel Caballero Mesa & IP2: Dr. Snezana Lazic

FINANCING: 291,870.00 €

2 postdoctoral positions approved on a 2-year contract

PROJECT TITLE: Design and production of quantum light in two-dimensional semiconductors (2DQuanta)

Ref.: PRX21/00710

FINANCIAL ENTITY: Spanish Ministry of Science, Innovation and Universities (MCIU) - State Programme for the Promotion of Talent and its Employability in Research & Development & Innovation (R + D + i) of the State Plan for Scientific and Technical Research and Innovation: “Research stays abroad for the mobility of Professors and Senior Researchers”

LENGHT FROM: July 01, 2022 TO: December 31, 2022

PRINCIPAL INVESTIGATOR: Dr. Snezana Lazic

FINANCING: 17,462.00 €

PROJECT TITLE: Engineering quantum photon states in two-dimensional materials (2DEnLight)

Ref.: PID2020-113415RB-C21 & PID2020-113415RB-C22 (Coordinated project)

FINANCIAL ENTITY: Spanish Ministry of Science and Innovation (MICINN) - State R + D + i: Program oriented to Research Challenges

LENGHT FROM: September 01, 2021 TO: August 31, 2024

PROJECT COORDINATOR & PRINCIPAL INVESTIGATOR (PID2020-113415RB-C21): Dr. Snezana Lazic
FINANCING: 211,750.00 €

2 postdoctoral positions approved on a 2-year contract

PROJECT TITLE: Controllable production and manipulation of entangled photon pairs using surface acoustic waves in semiconductor nanostructures

Ref.: CAS18/00306

FINANCIAL ENTITY: Spanish Ministry of Science, Innovation and Universities (MCIU) - State Programme for the Promotion of Talent and its Employability in Research & Development & Innovation (R + D + i): "José Castillejo research stays abroad for the mobility of young doctors"

LENGHT FROM: October 01, 2018 TO: December 31, 2018

PRINCIPAL INVESTIGATOR: Dr. Snezana Lazic

FINANCING: 10,281.00 €

PROJECT TITLE: Semiconductor nanostructures as components for quantum information processing: "On demand" emission of entangled photon pairs

Ref.: RYC-2011-09528

FINANCIAL ENTITY: Spanish Ministry of Economy and Competitiveness (MINECO) - State Programme for the Promotion of Talent and its Employability in R + D + i: "Ramón y Cajal" Research Grants

LENGHT FROM: April 01, 2012 TO: December 21, 2018

PRINCIPAL INVESTIGATOR: Dr. Snezana Lazic

FINANCING: 183,600.00 €

PROJECT TITLE: Quantum light-matter coupling in two-dimensional systems (QLMC-2D)

Ref.: MAT2017-837220-R

FINANCIAL ENTITY: Spanish Ministry of Economy and Competitiveness (MINECO) - State R + D + i Program oriented to the Challenges of the Society

LENGHT FROM: January 01, 2018 TO: December 31, 2020

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. Luis Viña Liste & Dr. Francesca Maria Marchetti

FINANCING: 242,000.00 €

PROJECT TITLE: Single-Photon Generation in 2D Crystals for Quantum Information

Ref.: MDM-2014-0377

FINANCIAL ENTITY: Condensed Matter Physics Center (IFIMAC) - María de Maeztu Excellence Research Institute, Universidad Autónoma de Madrid

LENGHT FROM: January 01, 2017 TO: June 30, 2019

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. Juan José Palacios Burgos

FINANCING: 160,000.00 €

PROJECT TITLE: Quantum optics in semiconductor nanostructures (QOINS)

Ref.: MAT2014-53119-C2-1-R

FINANCIAL ENTITY: Spanish Ministry of Economy and Competitiveness (MINECO) - State R + D + i Program oriented to the Challenges of the Society

LENGHT FROM: January 01, 2015 TO: December 31, 2018

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. Luis Viña Liste

FINANCING: 411,400.00 €

PROJECT TITLE: Nanostructures for quantum optics (NANOQUO)

Ref.: MAT2011-22997

FINANCIAL ENTITY: Spanish Ministry of Economy and Competitiveness (MINECO)

LENGHT FROM: January 01, 2014 TO: December 31, 2015

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. Carlos Tejedor de Paz

FINANCING: 466,942.00 €

PROJECT TITLE: *Dipolar exciton hydrodynamics, controlled interactions and multi-functional integration: towards an exciton based optoelectronic multiplexer*

FINANCIAL ENTITY: *German Research Foundation (DFG)*

LENGHT FROM: 2011 TO: 2013

PARTICIPATION: *Postdoctoral researcher (paid from the project)*

PRINCIPAL INVESTIGATOR: *Dr. Paulo V. Santos*

FINANCING: *132,000.00 € + 3-year PostDoctoral position*

PROJECT TITLE: *Spin transport and manipulation in GaAs (110) QWs using surface acoustic waves*

FINANCIAL ENTITY: *German Research Foundation (DFG)*

LENGHT FROM: 2009 TO: 2013

PARTICIPATION: *Member of the research team*

PRINCIPAL INVESTIGATOR: *Dr. Paulo V. Santos*

FINANCING: *246,000.00 € + 3-year PostDoctoral position*

PROJECT TITLE: *Dynamic quantum dots for quantum information technology*

FINANCIAL ENTITY: *German Federal Ministry of Education and Research (BMBF)*

LENGHT FROM: 2004 TO: 2009

PARTICIPATION: *Postdoctoral researcher (paid from the project)*

PRINCIPAL INVESTIGATOR: *Dr. Paulo Ventura Santos*

FINANCING: *529,000.00 € + 3-year PostDoctoral position*

PROJECT TITLE: *European network of excellence on photonic integrated components and circuits*

Ref.: *ePIX-net: 004525*

FINANCIAL ENTITY: *European Community*

LENGHT FROM: *September 1, 2004* TO: *February 28, 2009*

PARTICIPATION: *Member of the research team*

PRINCIPAL INVESTIGATOR: *Prof. Dr. José Manuel Calleja*

FINANCING: *34,427.00 €*

PROJECT TITLE: *Strong coupling between the electronic and photonic spectra of semiconductor nanostructure*

Ref.: *MAT2005-01388*

FINANCIAL ENTITY: *Spanish Ministry of Science and Technology (MCyT)*

LENGHT FROM: *December 1, 2005* TO: *December 31, 2008*

PARTICIPATION: *Member of the research team*

PRINCIPAL INVESTIGATOR: *Prof. Dr. Carlos Tejedor de Paz*

FINANCING: *467,670.00 €*

PROJECT TITLE: *Semiconductor nanostructures as components for quantum information (NANIC)*

Ref.: *NAN2004-09109-C04-04*

FINANCIAL ENTITY: *Spanish Ministry of Education and Science (MEC)*

LENGHT FROM: *December 1, 2005* TO: *November 30, 2008*

PARTICIPATION: *Member of the research team*

PRINCIPAL INVESTIGATOR: *Prof. Dr. José Manuel Calleja*

FINANCING: *235,750.00 €*

PROJECT TITLE: *Semiconductor nanostructures as quantum information components (NANOCOMIC)*

Ref.: *S-0505/ESP-0200*

FINANCIAL ENTITY: *Comunidad Autónoma de Madrid (CAM)*

LENGHT FROM: *January 1, 2006* TO: *May 1, 2008*

PARTICIPATION: *Member of the research team*

PRINCIPAL INVESTIGATOR: *Prof. Dr. Luis Viña Liste*

PROJECT COORDINATOR: *Prof. Dr. Enrique Calleja Pardo*

FINANCING: *734,379.95 €*

PROJECT TITLE: *Optical and electronic properties of advanced nitride nanostructures*

Ref.: *CAM-GR/MAT/099/2004*

FINANCIAL ENTITY: Comunidad Autónoma de Madrid (CAM)

LENGHT FROM: January 1, 2005 TO: December 31, 2005

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. Luis Viña Liste

FINANCING: 98,670.00 €

PROJECT TITLE: Light-matter coupling and collective phenomena in semiconductor nanostructures

Ref.: MAT2002-00139

FINANCIAL ENTITY: Spanish Ministry of Science and Technology (MCyT)

LENGHT FROM: January 1, 2003 TO: December 31, 2003

PARTICIPATION: Member of the research team

PRINCIPAL INVESTIGATOR: Prof. Dr. José Manuel Calleja

FINANCING: 250,000.00 €

PUBLICATIONS

Key: B= full book, CB.= chapter of book, A= article, R= review, E= editor

(*) Those publications in process and not yet published, just specify publication status. (**)When applicable/available

Book chapters

AUTHORS (in order of authorship):* **S. Lazić, R. Hey and P.V. Santos
TITLE: "Acoustic carrier transport in GaAs nanowires" in "Length scale dependent phonon interactions"
BOOK TITLE: "Length scale dependent phonon interactions" ed. by S.L. Shindé and G.P. Srivastava
Springer-Verlag GmbH (ISBN: 978-1-4614-8651-0) *KEY:* CB
FIRST AND LAST PAGE: 259 – 292
DATE OF PUBLICATION ():* 2014
DOI: http://link.springer.com/content/pdf/10.1007/978-1-4614-8651-0_9
TOTAL NUMBER OF TIMES CITED: 69

AUTHORS (in order of authorship): J. Grandal, M.A. Sánchez-García, E. Calleja, **S. Lazić**, E. Gallardo, J.M. Calleja, E. Luna, A. Trampert, M. Niebelschütz, V. Cimalla and O. Ambacher
TITLE: "Characterization of InN nanocolumns grown on silicon substrates"
BOOK TITLE: "Indium Nitride and Related Alloys", ed. by T.D. Veal, C.F. McConville and W.J. Schaff, CRC Press (ISBN: 9781420078091) *KEY:* CB
FIRST AND LAST PAGE: 599 - 612
DATE OF PUBLICATION ():* August 2009

Journal articles

AUTHORS (in order of authorship): S P. Ares, H. Santos, S. Lazić, C. Gibaja, I. Torres, S. Pinilla, J. Gómez-Herrero, H.P. van der Meulen, P. García-González and F. Zamora
TITLE: "Direct visualization and effects of atomic-scale defects on the optoelectronic properties of hexagonal boron nitride"
JOURNAL/BOOK TITLE: Advanced Electronic Materials *KEY:* A
VOLUME: 7 *FIRST AND LAST PAGE:* 2001177
DATE OF PUBLICATION ():* March 2021 *ISSN:* 2199-160X
DOI: <https://doi.org/10.1002/aelm.202001177>
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**):* YES NO *IMPACT FACTOR (**):* 7.295 (5-year: 7.418)
TERCILE IN CATEGORY: T1 (2020)
QUARTILE IN CATEGORY: Q1 (2020)
RANK IN CATEGORY: 27 of 160 (Applied Physics)
TOTAL NUMBER OF TIMES CITED: 7

AUTHORS (in order of authorship): S. Fernández-Garrido, C. Pisador, J. Lähnemann, **S. Lazić**, A. Ruiz and A. Redondo-Cubero
TITLE: "Coalescence, crystallographic orientation and luminescence of ZnO nanowires grown on Si (001) by chemical vapour transport"
JOURNAL/BOOK TITLE: Nanotechnology *KEY:* A
VOLUME: 31 (47) *FIRST AND LAST PAGE:* 475603
DATE OF PUBLICATION ():* September 2020 (online) *ISSN:* 0957-4484
DOI: <https://doi.org/10.1088/1361-6528/abadc8>
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**):* YES NO *IMPACT FACTOR (**):* 3.574 (5-year: 3.618)
TERCILE IN CATEGORY: T1 (2020)
QUARTILE IN CATEGORY: Q1 (2020)
RANK IN CATEGORY: 44 of 160 (Applied Physics)

TOTAL NUMBER OF TIMES CITED: 1

AUTHORS (in order of authorship): A. Serrano, O. Caballero-Calero, M.Á. García, **S. Lazić**, N. Carmona, G.R. Castro, M. Martín-González and J.F. Fernández

TITLE: "Cold sintering process of ZnO ceramics: Effect of the nanoparticle/microparticle ratio"

JOURNAL/BOOK TITLE: Journal of the European Ceramic Society *KEY:* A

VOLUME: 40 *FIRST AND LAST PAGE:* 5535

DATE OF PUBLICATION ():* December 2020 *ISSN:* 0955-2219

DOI: <https://doi.org/10.1016/j.jeurceramsoc.2020.05.059>

*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**):* YES NO *IMPACT FACTOR (**):* 5.302 (5-year: 4.925)

TERCILE IN CATEGORY: T1 (2020)

QUARTILE IN CATEGORY: Q1 (2020)

RANK IN CATEGORY: 2 of 29 (Material Science - Ceramics)

TOTAL NUMBER OF TIMES CITED: 36

AUTHORS (in order of authorship):* **S. Lazić, A. Espinha, S. Pinilla Yanguas, C. Gibaja, F. Zamora, P. Ares, M. Chhowalla, W.S. Paz, J.J. Palacios Burgos, A. Hernández-Mínguez, P.V Santos and H.P van der Meulen

TITLE: "Dynamically tuned non-classical light emission from atomic defects in hexagonal boron nitride"

JOURNAL/BOOK TITLE: Communication Physics - Nature Research publishing *KEY:* A

VOLUME: 2 *FIRST AND LAST PAGE:* 113

DATE OF PUBLICATION ():* September 2019

DOI: <https://doi.org/10.1038/s42005-019-0217-6>

*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**):* YES NO *IMPACT FACTOR (**):* 6.368

TERCILE IN CATEGORY: T1 (2020)

QUARTILE IN CATEGORY: Q1 (2020)

RANK IN CATEGORY: 10 of 86 (Multidisciplinary Physics)

TOTAL NUMBER OF TIMES CITED: 41

-'Editor recommended' scientific publication

AUTHORS (in order of authorship): N.L. Ignjatović, L. Mancić, M. Vuković, Z. Stojanović, M.G. Nikolić, S. Škapin, S. Jovanović, Lj. Veselinović, V. Uskoković, **S. Lazić**, S. Marković, M.M. Lazarević and D.P. Uskoković

TITLE: "Rare-earth (Gd³⁺, Yb³⁺/Tm³⁺, Eu³⁺) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging"

JOURNAL/BOOK TITLE: Scientific Reports *KEY:* A

VOLUME: 9 *FIRST AND LAST PAGE:* 16305

DATE OF PUBLICATION ():* November 2019 *ISSN:* 2045-2322

DOI: <https://doi.org/10.1038/s41598-019-52885-0>

*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**):* YES NO *IMPACT FACTOR (**):* 4.38 (5-year: 5.134)

TERCILE IN CATEGORY: T1 (2020)

QUARTILE IN CATEGORY: Q1 (2020)

RANK IN CATEGORY: 17 of 72 (Multidisciplinary Science)

TOTAL NUMBER OF TIMES CITED: 74

AUTHORS (in order of authorship):* **S. Lazić, E. Chernysheva, A. Hernández-Mínguez, P. Santos and H.P. van der Meulen

TITLE: "Acoustically regulated optical emission dynamics from quantum dot-like emission centers in GaN/InGaN nanowire heterostructures"

JOURNAL/BOOK TITLE: Journal of Physics D – Applied Physics *KEY:* A

VOLUME: 51 *FIRST AND LAST PAGE:* 104001 (10)

DATE OF PUBLICATION ():* March 2018 *ISSN:* 0022-3727

DOI: 10.1088/1361-6463/aaa8d5

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.207 (5-year: 3.041)
TERCILE IN CATEGORY: T2 (2020)
QUARTILE IN CATEGORY: Q2 (2020)
RANK IN CATEGORY: 58 of 160 (Applied Physics)
TOTAL NUMBER OF TIMES CITED: 10

-Published as "Invited Special Issue Article"

AUTHORS (in order of authorship): **S. Lazić**, A. Hernández-Mínguez and P.V. Santos
TITLE: "Control of Single photon emitters in semiconductor nanowires by surface acoustic waves"
JOURNAL/BOOK TITLE: Semiconductor Science and Technology KEY: A
VOLUME: 32 FIRST AND LAST PAGE: 084002 (11)
DATE OF PUBLICATION (*): August 2017 ISSN: 0268-1242
DOI: 10.1088/1361-6641/aa7295

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 2.28 (5-year: 2.34)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 33 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 6

-Published as "Invited Article"

*AUTHORS (in order of authorship): Ž. Gačević, M. Holmes, E. Chernysheva, M. Müller, A. Torres-Pardo, P. Veit, F. Bertram, J. Christen, J.M. González Calbet, E. Calleja and **S. Lazić**
TITLE: "Emission of linearly polarized single photons from quantum dots contained in nonpolar, semipolar and polar sections of pencil-like InGaN/GaN nanowires"
JOURNAL/BOOK TITLE: ACS Photonics KEY: A
VOLUME: 4 FIRST AND LAST PAGE: 657 - 664
DATE OF PUBLICATION (*): March 2017 ISSN: 2330-4022
DOI: 10.1021/acsp Photonics.6b01030

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 7.529 (5-year: 7.718)
TERCILE IN CATEGORY: T1 (2020)
QUARTILE IN CATEGORY: Q1 (2020)
RANK IN CATEGORY: 10 of 99 (Optics)
TOTAL NUMBER OF TIMES CITED: 51

AUTHORS (in order of authorship): **S. Lazić**, E. Chernysheva, Ž. Gačević, H.P. van der Meulen, E. Calleja and J.M. Calleja
TITLE: "Dynamic control of the optical emission from GaN/ InGaN nanowire quantum dots by surface acoustic waves"
JOURNAL/BOOK TITLE: AIP Advances KEY: A
VOLUME: 5 FIRST AND LAST PAGE: 097217 (7)
DATE OF PUBLICATION (*): September 2015 ISSN: 2158-3226
DOI: 10.1063/1.4932147

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 1.653 (5-year: 1.657)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q3 (2017)
RANK IN CATEGORY: 81 of 146 (Applied Physics)
TOTAL NUMBER OF TIMES CITED: 17

*AUTHORS (in order of authorship): E. Chernysheva, Ž. Gačević, N. García-Lepetit, H.P. van der Meulen, M. Müller, F. Bertram, P. Veit, A. Torres-Pardo, J.M. González Calbet, J. Christen, E. Calleja and J.M. Calleja, **S. Lazić**

TITLE: "Blue-to-green single photons from InGaN/GaN dot-in-a-wire ordered arrays"
JOURNAL/BOOK TITLE: Europhysics Letters KEY: A
VOLUME: 111 FIRST AND LAST PAGE: 24001 (6)
DATE OF PUBLICATION (*): July 2015 ISSN: 0295-5075
DOI: 10.1209/0295-5075/111/24001
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 1.834 (5-year: 1.835)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 36 of 78 (Multidisciplinary Physics)
TOTAL NUMBER OF TIMES CITED: 28
-Published as "Perspective Article" chosen by the Editor
-Selected as EPL HIGHLIGHTS 2015 & INVITED INTERNATIONAL YEAR OF LIGHT (IYL) RESEARCH PERSPECTIVE

AUTHORS (in order of authorship): A. Violante, K. Cohen, **S. Lazić**, R. Hey, R. Rapaport and P.V. Santos

TITLE: "Dynamics of indirect exciton transport by moving acoustic fields"
JOURNAL/BOOK TITLE: New Journal of Physics KEY: A
VOLUME: 16 FIRST AND LAST PAGE: 033035 (19)
DATE OF PUBLICATION (*): March 2014 ISSN: 1367-2630
DOI: 10.1088/1367-2630/16/3/033035
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.579 (5-year: 3.616)
TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2017)
RANK IN CATEGORY: 11 of 78 (Multidisciplinary Physics)
TOTAL NUMBER OF TIMES CITED: 46

*AUTHORS (in order of authorship): **S. Lazić**, A. Violante, K. Cohen, R. Hey, R. Rapaport and P.V. Santos

TITLE: "Scalable interconnections for remote exciton systems based on acoustic transport"
JOURNAL/BOOK TITLE: Physical Review B KEY: A
VOLUME: 89 FIRST AND LAST PAGE: 085313 (8)
DATE OF PUBLICATION (*): February 2014 ISSN: 1098-0121
DOI: 10.1103/PhysRevB.89.085313
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.813 (5-year: 3.704)
TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2014)
RANK IN CATEGORY: 18 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 53

AUTHORS (in order of authorship): M. Maragkou, S. Sánchez-Muñoz, **S. Lazić**, E. Chernysheva, H.P. van der Meulen, A. González-Tudela, C. Tejedor, L.J. Martinez, I. Prieto, P.A. Postigo and J.M. Calleja

TITLE: "Bichromatic dressing of a quantum dot detected by a remote second quantum dot"
JOURNAL/BOOK TITLE: Physical Review B KEY: A
VOLUME: 88 FIRST AND LAST PAGE: 075309 (6)
DATE OF PUBLICATION (*): August 2013 ISSN: 1098-0121
DOI: 10.1103/PhysRevB.88.075309
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.813 (5-year: 3.704)
TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2013)
RANK IN CATEGORY: 18 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 9

*AUTHORS (in order of authorship): A. Hernández-Mínguez, M. Möller, S. Breuer, C. Pfüller, C. Somaschini, **S. Lazić**, O. Brandt, A. García-Cristóbal, M.M. de Lima, Jr., A. Cantarero, L. Geelhaar, H. Riechert and P.V. Santos

TITLE: "Acoustically driven photon antibunching in nanowires"

JOURNAL/BOOK TITLE: Nano Letters

KEY: A

VOLUME: 12

FIRST AND LAST PAGE: 252 - 258

DATE OF PUBLICATION (*): January 2012

ISSN: 1530-6984

DOI: <https://doi.org/10.1021/nl203461m>

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO

IMPACT FACTOR (**): 12.08 (5-year: 14.201)

TERCILE IN CATEGORY: T1 (2017)

QUARTILE IN CATEGORY: Q1 (2017)

RANK IN CATEGORY: 9 of 146 (Applied Physics)

TOTAL NUMBER OF TIMES CITED: 59

AUTHORS (in order of authorship): **S. Lazić**, R. Hey and P.V. Santos

TITLE: "Mechanism for non-classical light emission from acoustically populated (311)A GaAs quantum wires"

JOURNAL/BOOK TITLE: New Journal of Physics

KEY: A

VOLUME: 14

FIRST AND LAST PAGE: 013005 (12)

DATE OF PUBLICATION (*): January 2012

ISSN: 1367-2630

DOI: 10.1088/1367-2630/14/1/013005

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO

IMPACT FACTOR (**): 3.579 (5-year: 3.616)

TERCILE IN CATEGORY: T1 (2017)

QUARTILE IN CATEGORY: Q1 (2017)

RANK IN CATEGORY: 11 of 78 (Multidisciplinary Physics)

TOTAL NUMBER OF TIMES CITED: 13

*AUTHORS (in order of authorship): A. Hernández-Mínguez, K. Biermann, **S. Lazić**, R. Hey and P.V. Santos

TITLE: "Kerr detection of acoustic spin transport in GaAs (110) quantum wells"

JOURNAL/BOOK TITLE: Applied Physics Letters

KEY: A

VOLUME: 97

FIRST AND LAST PAGE: 242110 (3)

DATE OF PUBLICATION (*): December 2010

ISSN: 0003-6951

DOI: 10.1063/1.3524218

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO

IMPACT FACTOR (**): 3.495 (5-year: 3.386)

TERCILE IN CATEGORY: T1 (2017)

QUARTILE IN CATEGORY: Q1 (2017)

RANK IN CATEGORY: 29 of 146 (Applied Physics)

TOTAL NUMBER OF TIMES CITED: 19

-Selected as "Research Highlight" by Applied Physics Letters journal in January 2011.

*AUTHORS (in order of authorship): O.D.D. Couto, Jr., **S. Lazić**, F. Iikawa, J.A.H. Stotz, U. Jahn, R. Hey and P.V. Santos

TITLE: "Photon anti-bunching in acoustically pumped quantum dots"

JOURNAL/BOOK TITLE: Nature Photonics

KEY: A

VOLUME: 3

FIRST AND LAST PAGE: 645 - 648

DATE OF PUBLICATION (*): November 2009

ISSN: 1749-4885

DOI: 10.1038/NPHOTON.2009.191

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO

IMPACT FACTOR (**): 32.521 (5-year: 38.551)

TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2017)
RANK IN CATEGORY: 1 of 94 (Optics)
TOTAL NUMBER OF TIMES CITED: 137

-Selected for "**News and Views**" comment in *Nature Photonics* [*Nature Photon.* 3, 611-612 (2009)].

*AUTHORS (in order of authorship): A.M. Teweldeberhan, G. Stenuit, S. Fahy, E. Gallardo, **S. Lazić**, J.M. Calleja, J. Miguel-Sánchez, M. Montes, A. Hierro, R. Gargallo-Caballero, A. Guzmán and E. Muñoz
TITLE: "Resonant Raman active localized vibrational modes in $\text{Al}_y\text{Ga}_{1-y}\text{N}_x\text{As}_{1-x}$ alloy: Experiment and first-principles calculations"

JOURNAL/BOOK TITLE: Physical Review B

KEY: A

VOLUME: 77

FIRST AND LAST PAGE: 155208 (6)

DATE OF PUBLICATION (*): April 2008

ISSN: 1098-0121

DOI: 10.1103/PhysRevB.77.155208

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.813 (5-year: 3.704)

TERCILE IN CATEGORY: T1 (2017)

QUARTILE IN CATEGORY: Q1 (2008)

RANK IN CATEGORY: 18 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 9

*AUTHORS (in order of authorship): **S. Lazić**, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García, E. Calleja, E. Luna and A. Trampert

TITLE: "Phonon-plasmon coupling in electron surface accumulation layers in InN nanocolumns"

JOURNAL/BOOK TITLE: Physical Review B

KEY: A

VOLUME: 76

FIRST AND LAST PAGE: 205319 (6)

DATE OF PUBLICATION (*): November 2007

ISSN: 1098-0121

DOI: 10.1103/PhysRevB.76.205319

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.813 (5-year: 3.704)

TERCILE IN CATEGORY: T1 (2017)

QUARTILE IN CATEGORY: Q1 (2007)

RANK IN CATEGORY: 18 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 58

-Selected for the December 2007 issue of *Virtual Journal of Nanoscale Science and Technology* published by the American Institute of Physics and the American Physical Society.

*AUTHORS (in order of authorship): J.M. Calleja, **S. Lazić**, J. Sanchez-Páramo, F. Agulló-Rueda, L. Cerutti, J. Ristić, S. Fernández-Garrido, M.A. Sánchez-García, J. Grandal, E. Calleja, A. Trampert and U. Jahn

TITLE: "Inelastic light scattering spectroscopy of semiconductor nitride nanocolumns"

JOURNAL/BOOK TITLE: *Physica Status Solidi B – Basics Solid State Physics*

KEY: A

VOLUME: 244

FIRST AND LAST PAGE: 2838 - 2846

DATE OF PUBLICATION (*): August 2007

ISSN: 0370-1972

DOI: 10.1002/pssb.200675610

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 1.729 (5-year: 1.568)

TERCILE IN CATEGORY: T2 (2017)

QUARTILE IN CATEGORY: Q3 (2017)

RANK IN CATEGORY: 42 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 5

-Published as "**Featured article**" chosen by the Editor

*AUTHORS (in order of authorship): L. Cerutti, J. Ristić, S. Fernández-Garrido, E. Calleja, A. Trampert, K.H. Ploog, **S. Lazić** and J.M. Calleja

TITLE: "Wurtzite GaN nanocolumns grown on Si(001) by molecular beam epitaxy"

JOURNAL/BOOK TITLE: Applied Physics Letters KEY: A
VOLUME: 88 FIRST AND LAST PAGE: 213114 (3)
DATE OF PUBLICATION (*): May 2006 ISSN: 0003-6951
DOI: 10.1063/1.2204836
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.495 (*5-year: 3.386)
TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2017)
RANK IN CATEGORY: 29 of 146 (Applied Physics)
TOTAL NUMBER OF TIMES CITED: 187

*AUTHORS (in order of authorship): **S. Lazić**, M. Moreno, J. M. Calleja, A. Trampert, K. H. Ploog, F. B. Naranjo, S. Fernandez and E. Calleja
TITLE: "Resonant Raman scattering in strained and relaxed InGaN/GaN multi-quantum wells"
JOURNAL/BOOK TITLE: Applied Physics Letters KEY: A
VOLUME: 86 FIRST AND LAST PAGE: 061905 (3)
DATE OF PUBLICATION (*): February 2005 ISSN: 0003-6951
DOI: 10.1063/1.1861496
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 3.495 (*5-year: 3.386)
TERCILE IN CATEGORY: T1 (2017)
QUARTILE IN CATEGORY: Q1 (2017)
RANK IN CATEGORY: 29 of 146 (Applied Physics)
TOTAL NUMBER OF TIMES CITED: 24

Conference proceedings

*AUTHORS (in order of authorship): **S. Lazić**, E. Chernysheva, A. Hernández-Mínguez, P.V. Santos and H.P. van der Meulen
TITLE: "Surface acoustic wave modulation of single photon emission from GaN/InGaN nanowire quantum dots"
JOURNAL/BOOK TITLE: Journal of Physics: Conference Series KEY: A
VOLUME: 1092 FIRST AND LAST PAGE: 012075 (4)
DATE OF PUBLICATION (*): October 2018 ISSN: 1742-6588
DOI: 10.1088/1742-6596/1092/1/012075
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A
-Published as "Invited paper"

*AUTHORS (in order of authorship): **S. Lazić**, E. Chernysheva, Ž. Gačević, N. García-Lepetit, H.P. van der Meulen, M. Müller, F. Bertram, P. Veit, A. Torres-Pardo, J.M. González Calbet, J. Christen, E. Calleja and J.M. Calleja
TITLE: "Ordered arrays of InGaN/GaN dot-in-a-wire nanostructures as single photon emitters"
JOURNAL/BOOK TITLE: Proc. Of SPIE - Gallium Nitride Materials and Devices X KEY: A
VOLUME: 9363 FIRST AND LAST PAGE: 93630U (8)
DATE OF PUBLICATION (*): March 2015 ISSN: 0277-786X
DOI: 10.1117/12.2074898
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A
TOTAL NUMBER OF TIMES CITED: 15
-Invited paper

*AUTHORS (in order of authorship): A. Hernández-Mínguez, K. Biermann, **S. Lazić**, R. Hey and P.V. Santos
TITLE: "Time-resolved Kerr detection of acoustic spin transport in GaAs (110) quantum wells"

JOURNAL/BOOK TITLE: Verhandlungen der Deutschen Physikalischen Gesellschaft, Proc. Of - DPG
Spring meeting of the condensed matter section KEY: A
VOLUME: 46(1) ISSN: 0420-0195
DATE OF PUBLICATION (*): July 2011
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

*AUTHORS (in order of authorship): **S. Lazić**, O.D.D. Couto, F. Iikawa, J.A.H. Stotz, R. Hey and P.V. Santos

TITLE: "Acoustically-driven single photon sources on (311)A GaAs"
JOURNAL/BOOK TITLE: AIP Conference Proceedings: 30th International Conference on the Physics of Semiconductors KEY: A
VOLUME: 1399 FIRST AND LAST PAGE: 1035 - 1037
DATE OF PUBLICATION (*): December 2011 ISSN: 0094-243X
DOI: 10.1063/1.3666732
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

*AUTHORS (in order of authorship): O.D.D. Couto, Jr., **S. Lazić**, F. Iikawa, J.A.H. Stotz, R. Hey and P.V. Santos

TITLE: "Evidence for photon anti-bunching in acoustically pumped dots"
JOURNAL/BOOK TITLE: Physica E: Low-Dimensional Systems & Nanostructures KEY: A
VOLUME: 42 FIRST AND LAST PAGE: 2497 - 2500
DATE OF PUBLICATION (*): September 2010 ISSN: 1386-9477
DOI: 10.1016/j.physe.2009.11.028
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 2.399 (*5-year: 2.229)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 30 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 1

*AUTHORS (in order of authorship): **S. Lazić**, P.V. Santos and R. Hey
TITLE: "Exciton transport by moving strain dots in GaAs quantum wells"
JOURNAL/BOOK TITLE: Physica E: Low-Dimensional Systems & Nanostructures KEY: A
VOLUME: 42 FIRST AND LAST PAGE: 2640 - 2643
DATE OF PUBLICATION (*): September 2010 ISSN: 1386-9477
DOI: 10.1016/j.physe.2009.10.059
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 2.399 (*5-year: 2.229)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 30 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 21

*AUTHORS (in order of authorship): P.V. Santos, E. Cerda, **S. Lazić**, K. Biermann and R. Hey
TITLE: "Surface acoustic waves for the manipulation of excitons and microcavity polaritons"
JOURNAL/BOOK TITLE: Journal of Physics Conference Series: 11th International Conference on Optics of Excitons in Confined Systems KEY: A
VOLUME: 210 FIRST AND LAST PAGE: N/A
DATE OF PUBLICATION (*): 2010 ISSN: 1742-6588
JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR
OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A
TOTAL NUMBER OF TIMES CITED: N/A

*AUTHORS (in order of authorship): S. Jiao, **S. Lazić** and P.V. Santos

TITLE: "Electronic control in semiconductor nanostructures using surface acoustic phonons"
JOURNAL/BOOK TITLE: Materials Research Society Symposium Proceedings: Phonon Engineering for Enhanced Materials Solutions – Theory and Applications *KEY*: A
VOLUME: 1221 *FIRST AND LAST PAGE*: 103 - 110
DATE OF PUBLICATION ()*: 2010
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**)*: N/A *IMPACT FACTOR (**)*: N/A
TOTAL NUMBER OF TIMES CITED: N/A

AUTHORS (in order of authorship)*: E. Gallardo, **S. Lazić, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García and E. Calleja

TITLE: "Electron accumulation layers in InN nanocolumns studied by Raman scattering"
JOURNAL/BOOK TITLE: AIP Conference Proceedings: 29th International Conference on the Physics of Semiconductors *KEY*: A
VOLUME: 1199 *FIRST AND LAST PAGE*: 325 - 326
DATE OF PUBLICATION ()*: January 2010 *ISSN*: 0094-243X
DOI: <https://doi.org/10.1063/1.3295433>
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**)*: N/A *IMPACT FACTOR (**)*: N/A

AUTHORS (in order of authorship)*: **S. Lazić, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García and E. Calleja

TITLE: "Raman scattering by longitudinal optical phonons in InN nanocolumns grown on Si(111) and Si(001) substrates"
JOURNAL/BOOK TITLE: Physica E: Low-Dimensional Systems & Nanostructures *KEY*: A
VOLUME: 40 *FIRST AND LAST PAGE*: 2087 - 2090
DATE OF PUBLICATION ()*: April 2008 *ISSN*: 1386-9477
DOI: 10.1016/j.physe.2007.09.118
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**)*: YES NO *IMPACT FACTOR (**)*: 2.399 (*5-year: 2.229)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 30 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 18

AUTHORS (in order of authorship)*: E. Gallardo, **S. Lazić, J.M. Calleja, J. Miguel-Sánchez, M. Montes, A. Hierro, R. Gargallo-Caballero, A. Guzmán, E. Muñoz, A.M. Teweldeberhan and S.Fahy

TITLE: "Resonant Raman study of local vibrational modes in AlGaAsN layers"
JOURNAL/BOOK TITLE: Physica E: Low-Dimensional Systems & Nanostructures *KEY*: A
VOLUME: 40 *FIRST AND LAST PAGE*: 2084 - 2086
DATE OF PUBLICATION ()*: April 2008 *ISSN*: 1386-9477
DOI: 10.1016/j.physe.2007.09.117
*JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**)*: YES NO *IMPACT FACTOR (**)*: 2.399 (*5-year: 2.229)
TERCILE IN CATEGORY: T2 (2017)
QUARTILE IN CATEGORY: Q2 (2017)
RANK IN CATEGORY: 30 of 67 (Condensed Matter Physics)
TOTAL NUMBER OF TIMES CITED: 1

AUTHORS (in order of authorship)*: **S. Lazić, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García and E. Calleja

TITLE: "Raman scattering by coupled plasmon-LO phonons in InN nanocolumns"
JOURNAL/BOOK TITLE: Physica Status Solidi C: Current Topics in Solid-State Physics *KEY*: A
VOLUME: 5 *FIRST AND LAST PAGE*: 1562 - 1564
DATE OF PUBLICATION ()*: May 2008 *ISSN*: 1862-6351
DOI: 10.1002/pssc.200778488

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

TOTAL NUMBER OF TIMES CITED: 2

*AUTHORS (in order of authorship): E. Gallardo, **S. Lazić**, J.M. Calleja, J. Miguel-Sánchez, M. Montes, A. Hierro, R. Gargallo-Caballero, A. Guzmán, E. Muñoz, A.M. Teweldeberhan and S. Fahy

TITLE: "Local vibration modes and nitrogen incorporation in AlGaAs:N layers"

JOURNAL/BOOK TITLE: Physica Status Solidi C: Current Topics in Solid-State Physics KEY: A

VOLUME: 5

FIRST AND LAST PAGE: 2345 - 2348

DATE OF PUBLICATION (*): May 2008

ISSN: 1862-6351

DOI: 10.1002/pssc.200778487

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, F. Agullo-Rueda, M.A. Sánchez-García, J. Grandal, E. Calleja and A. Trampert

TITLE: "Coupled longitudinal optical phonon-plasmon modes in InN nanocolumns"

JOURNAL/BOOK TITLE: AIP Conference Proceedings: 28th International Conference on the Physics of Semiconductors KEY: A

VOLUME: 893

FIRST AND LAST PAGE: 287 - 288

DATE OF PUBLICATION (*): May 2007

ISSN: 0094-243X

DOI: <https://doi.org/10.1063/1.2729880>

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

*AUTHORS (in order of authorship): M.A. Sánchez-García, J. Grandal, E. Calleja, **S. Lazić**, J.M. Calleja and A. Trampert

TITLE: "Epitaxial growth and characterization of InN nanorods and compact layers on silicon substrates"

JOURNAL/BOOK TITLE: Physica Status Solidi B: Basic Solid State Physics KEY: A

VOLUME: 243

FIRST AND LAST PAGE: 1490 - 1493

DATE OF PUBLICATION (*): June 2006

ISSN: 0370-1972

DOI: 10.1002/pssb.200565311

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 1.729 (5-year: 1.568)

TERCILE IN CATEGORY: T2 (2017)

QUARTILE IN CATEGORY: Q3 (2017)

RANK IN CATEGORY: 42 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 42

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, R. Hey and K.H. Ploog

TITLE: "Raman study of N bonding in AlGaAs/InGaAsN multiquantum wells"

JOURNAL/BOOK TITLE: Physica Status Solidi B: Basic Solid State Physics KEY: A

VOLUME: 243

FIRST AND LAST PAGE: 1634 - 1638

DATE OF PUBLICATION (*): June 2006

ISSN: 0370-1972

DOI: 10.1002/pssb.200565192

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 1.729 (5-year: 1.568)

TERCILE IN CATEGORY: T2 (2017)

QUARTILE IN CATEGORY: Q3 (2017)

RANK IN CATEGORY: 42 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 5

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, R. Hey and K.H. Ploog

TITLE: "Resonant Raman scattering by N-related local modes in AlGaAs/InGaAsN multiquantum wells"

JOURNAL/BOOK TITLE: Physica E: Low-Dimensional Systems & Nanostructures KEY: A

VOLUME: 32

FIRST AND LAST PAGE: 277 - 280

DATE OF PUBLICATION (*): May 2006

ISSN: 1386-9477

DOI: 10.1016/j.physe.2005.12.053

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 2.399 (*5-year: 2.229)

TERCILE IN CATEGORY: T2 (2017)

QUARTILE IN CATEGORY: Q2 (2017)

RANK IN CATEGORY: 30 of 67 (Condensed Matter Physics)

TOTAL NUMBER OF TIMES CITED: 1

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, R. Hey and K.H. Ploog

TITLE: "Composition dependent resonant Raman scattering in $\text{Al}_{0.33}\text{Ga}_{0.67}\text{As}/\text{In}_x\text{Ga}_{1-x}\text{As}_{1-y}\text{N}_y$ multiquantum wells"

JOURNAL/BOOK TITLE: Materials Science Forum: Recent Developments in Advanced Materials and Processes

KEY: A

VOLUME: 518

FIRST AND LAST PAGE: 17 - 22

DATE OF PUBLICATION (*): 2006

ISSN: 0255-5476

DOI: 10.4028/www.scientific.net/MSF.518.17

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 0.399

TERCILE IN CATEGORY: T3 (2005)

QUARTILE IN CATEGORY: Q4 (2005)

RANK IN CATEGORY: 137 of 178 (Multidisciplinary Material Science)

TOTAL NUMBER OF TIMES CITED: 2

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, F.B. Naranjo, S. Fernández and E. Calleja

TITLE: "Resonant Raman scattering in strained and relaxed $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ multiple quantum wells"

JOURNAL/BOOK TITLE: Materials Science Forum: Recent Developments in Advanced Materials and Processes

KEY: A

VOLUME: 494

FIRST AND LAST PAGE: 19 - 24

DATE OF PUBLICATION (*): 2005

ISSN: 0255-5476

DOI: 10.4028/www.scientific.net/MSF.494.19

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): YES NO IMPACT FACTOR (**): 0.399

TERCILE IN CATEGORY: T3 (2005)

QUARTILE IN CATEGORY: Q4 (2005)

RANK IN CATEGORY: 137 of 178 (Multidisciplinary Material Science)

*AUTHORS (in order of authorship): **S. Lazić**, J.M. Calleja, F.B. Naranjo, S. Fernández and E. Calleja

TITLE: "Resonant Raman study of strain and composition in InGaN multiquantum wells"

JOURNAL/BOOK TITLE: AIP Conference Proceedings: 27th International Conference on the Physics of Semiconductors

KEY: A

VOLUME: 772

FIRST AND LAST PAGE: 221 - 222

DATE OF PUBLICATION (*): 2005

ISSN: 0094-243X

DOI: <https://doi.org/10.1063/1.1994073>

JOURNAL WITHIN THE 25% HIGHER IMPACT FACTOR IN ITS KNOWLEDGE AREA AT THE YEAR OF PUBLICATION (**): N/A IMPACT FACTOR (**): N/A

Publication summary

- I have authored or co-authored **42 peer-reviewed journal articles** (including 1 Nature Photonics and 1 Nano Letters) and **conference proceedings**, in 20 of which I am the first author and in 2 of which I am the last author.
- I have authored or co-authored **2 book chapters**, in 1 of which I am the first author.
- 1 of my publications (*Nature Photon.* **3**, 645 (2009)) was the subject of 'News and Views' comment in Nature Photonics (*Nat. Photon.* **3**, 611 (2009)).

- 1 of my publications (*Appl. Phys. Lett.* **97**, 242110 (2010)) was selected as 'Research Highlight' in Applied Physics Letters.
- 1 of my papers (*EPL* **111**, 24001 (2015)) was published as "Perspective article" chosen by the Editor and was selected as **EPL HIGHLIGHTS 2015 & INVITED INTERNATIONAL YEAR OF LIGHT (IYL) RESEARCH PERSPECTIVE**
- 3 of my contributions (*Proc. Of SPIE* **9363**, 93630U (2015), *Semicond. Sci. Technol.* **32**, 084002 (2017) & *IOP Conf. Series: J. Phys.: Conf. Ser.* **1092**, 012075 (2018)) were published as an "Invited papers", 1 as "Invited Special Issue Article" (*J. Phys. D: Appl. Phys.* **51**, 104001 (2018)) and 1 as "Featured Article" (*phys. stat. sol. (b)* **244**, 2838 (2007)).
- The total number of citations of my papers (excluding self-citations) is **1117** – from Google Scholar, Web of Science & Researchgate.
- My h-number is 18. My first publication dates from 2005.

TECHNOLOGY TRANSFERENCE ACTIVITIES

Specify activity performed, time dedication and participation mode, territorial scope, validity and budget; and any other relevant contribution regarding: Results of technology transference activities, introduction of product improvements on the market or processes in progress. Participation in generation of spin-off companies based on technological innovations, development of competences / technological skills; start-up of new techniques or procedures, large installation or complex equipment maintenance, execution of technological services: homologation, calibration, analysis or others.

From June 8, 2001 to March 14, 2003 I was employed as "Metrology Electrical Engineer" at the Aeronautical Plant "Moma Stanojlović" - Metrology Laboratory in Belgrade (Serbia).

I was authorized by the Federal Institute for Measures and Precious Metals of Serbia and specialized in calibration, servicing testing and maintenance of electric measuring equipment, special-purpose devices and standards in the field of electromagnetic values, time & frequency and temperature.

My key contributions included:

- Development and implementation of novel procedures and specialized software for computer-aided electronic components troubleshooting and automated calibration of electrical test equipment and electrical measuring instruments
- Design and development of computer software applications and specialized utility programs for automated measurement data analysis
- Supervision and training of technical staff on a project/team basis
- In charge of a **Knowledge Transfer Project** with company Heraeus Group: Development and implementation of specific regulations, metrological guidelines and industrial prototype for testing and calibration of temperature measurement instruments (manufacturer of equipment: Heraeus-GmbH & Co.)

STAYS IN INTERNATIONALLY RECOGNIZED CENTRES

KEY: D=Ph.D student, P=postdoctoral. G= guest, S=staff, O=others (specify)

CENTRE: Paul-Drude-Institut für Festkörperelektronik

PLACE: Berlin

COUNTRY: Germany *YEAR:* 2022

LENGHT: 6 months

TOPIC: Design and production of quantum light in two-dimensional semiconductors.

KEY: O

Research stays abroad for the mobility of Professors and Senior Researchers financed by the Spanish Ministry of Science, Innovation and Universities (MCIU)

CENTRE: Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade

PLACE: Belgrade

COUNTRY: Serbia *YEAR:* 2022

LENGHT: 1 week

TOPIC: Experimental activities as a part of the joint research project "Engineering quantum photon states in two-dimensional materials (2DenLight)".

KEY: O (Project Coordinator)

CENTRE: Institute of Technical Sciences of the Serbian Academy of Sciences and Arts

PLACE: Belgrade

COUNTRY: Serbia *YEAR:* 2019

LENGHT: 1 week

TOPIC: Assisting in design and implementation of new experimental setup for measurements photoluminescence and quantum efficiency of luminescent nanophosphors.

KEY: G

CENTRE: Paul-Drude-Institut für Festkörperelektronik

PLACE: Berlin

COUNTRY: Germany *YEAR:* 2018

LENGHT: 3 months

TOPIC: Controllable production and manipulation of entangled photon pairs using surface acoustic waves (SAWs) in semiconductor nanostructures.

KEY: O

Mobility stay abroad "José Castillejo" financed by the Spanish Ministry of Science, Innovation and Universities (MCIU)

CENTRE: Paul-Drude-Institut für Festkörperelektronik

PLACE: Berlin

COUNTRY: Germany *YEAR:* 2015

LENGHT: 10 days

TOPIC: Cleanroom processing of SiO₂-coated InGaN/GaN dot-in-a-nanowire heterostructures on LiNbO₃ SAW-chips: patterning of SAW interdigital metal transducer delay lines on LiNbO₃ substrates using standard photolithography, electron-beam lithography, metal film evaporation and lift-off techniques & dispersion of III-Nitride dot-in-a-nanowire heterostructures on LiNbO₃ SAW delay lines & deposition of SiO₂ films by spin coating/thermal annealing of hydrogen silsesquioxane and RF sputtering techniques. Stroboscopic time-resolved experiments on SAW-driven carrier dynamics in III-Nitride dot-in-a-nanowire heterostructures.

KEY: G

CENTRE: Paul-Drude-Institut für Festkörperelektronik

PLACE: Berlin

COUNTRY: Germany *YEAR:* 2013

LENGHT: 2 weeks

TOPIC: Cleanroom processing of (100) InAs/(Al,Ga)As QD samples: Metal electrode sub-micron mask patterning using optical and electron-beam lithography & wet chemical etching & thin metal film deposition by vacuum evaporation & lift-off.

KEY: G

CENTRE: University of Toronto, Edward S. Rodgers Sr. Dept. of Electronics and Computer Engineering, Photonics Group

PLACE: Toronto

COUNTRY: Canada *YEAR:* 2008

LENGHT: 3 months

TOPIC: Design and implementation of experimental setup for micro-Raman spectroscopy and infrared ellipsometry characterization. Optical characterization by Raman spectroscopy and infrared ellipsometry of epitaxially grown III-V and II-VI semiconductor quantum dots.

KEY: P

CENTRE: Materials Science Institute of Madrid of the Spanish National Research Council (ICMM-CSIC), Raman Microscopy Lab, Group Leader: Dr. Fernando Agulló-Rueda

PLACE: Madrid

COUNTRY: Spain *YEAR:* 2006 & 2007

LENGHT: 3 weeks

TOPIC: Optical characterization of InN nanocolumns and compact layers by micro-Raman spectroscopy.

KEY: D

CENTRE: University of Valencia, Group of Spectroscopy of Solids (GES), Group Leader: Prof. Dr. Andrés Cantarero Sáez

PLACE: Valencia *COUNTRY:* Spain *YEAR:* 2006 *LENGHT:* 8 weeks

TOPIC: Theoretical study and computer-aided simulation of lattice dynamics and local vibrational mode frequencies in dilute nitride material systems. *KEY:* D

CENTRE: University of Stuttgart, Institut für Halbleiteroptik und Funktionelle Grenzflächen, Group Leader: Prof. Dr. Michael Jetter

PLACE: Stuttgart *COUNTRY:* Germany *YEAR:* 2006 *LENGHT:* 9 weeks

TOPIC: Metal organic vapour-phase epitaxy (MOVPE) growth, optical characterization by time-resolved micro-photoluminescence and structural characterization by X-ray diffraction of InGaN/GaN quantum dots. *KEY:* D

PhD Fellowship - Mobility FPU - funded by Spanish Ministry of Education, Culture and Sport (MECD)

CENTRE: Universidad Politécnica de Madrid, Institute for Optoelectronics Systems and Microtechnology (ISOM), Group Leader: Prof. Dr. Enrique Calleja

PLACE: Madrid *COUNTRY:* Spain *YEAR:* 2006 *LENGHT:* 4 weeks

TOPIC: Cleanroom processing of InGaN/GaN multiple quantum well LED samples: Metal electrodes patterning using electron beam lithography, metallization by vacuum evaporation and a lift-off process. *KEY:* D

CENTRE: "Mihajlo Pupin" Institute, IMP-Sensors & Measurement Ltd.

PLACE: Belgrade *COUNTRY:* Serbia *YEAR:* 2001 *LENGHT:* 4 weeks

TOPIC: Professional practice training in designing and manufacturing of measurement devices and sensors for industrial and laboratory applications. *KEY:* O

(Pre-Doctoral)

PRESENTATIONS IN CONGRESSES

Plenary talks

AUTHOR: **S. Lazić**

TITLE: Dynamic acousto - optoelectric manipulation of quantum light states in GaN/InGaN nanowire quantum dots

TYPE OF PRESENTATION: Plenary speaker

CONGRESS: International Conference on Nanoscience and Materials World

MEETING PLACE: Barcelona (Spain)

YEAR: November 2019

Invited talks

**Presenting author underlined*

AUTHORS: **S. Lazić**

TITLE: Dynamic tuning of quantum light emission from GaN/InGaN nanowire quantum dots

TYPE OF PRESENTATION: Invited oral

CONGRESS: Workshop in strongly correlated electronic systems - Institute of physics Belgrade

MEETING PLACE: Belgrade (Serbia)

YEAR: June 2022

AUTHORS: **S. Lazić**

TITLE: Dynamic acousto-optoelectric manipulation of quantum light states in GaN/InGaN nanowire quantum dots

TYPE OF PRESENTATION: Invited oral

CONGRESS: XXI Semana del IICO: Fronteras de la Óptica (XXII IICO WEEK)

MEETING PLACE: San Luis Potosi (Mexico)

YEAR: September 2021

AUTHORS: **S. Lazić**, S. Pinilla Yanguas, C. Gibaja, P. Ares, F. Zamora and H.P. van der Meulen
TITLE: Dynamic tuning of quantum light emitted from atom-like defects in hexagonal boron nitride
TYPE OF PRESENTATION: Invited oral
CONGRESS: 8th Conference on Advanced Ceramics and Applications (ACA VIII)
MEETING PLACE: Belgrade (Serbia)
YEAR: September 2019
-Chairperson of Session: Magnetic Ceramic and Heritage, Art & Design

AUTHORS: **S. Lazić**, Ž. Gačević and E. Calleja
TITLE: Dynamic acoustic modulation of quantum light emission from GaN/InGaN nanowire quantum dots
TYPE OF PRESENTATION: Keynote speaker
CONGRESS: 14th Multinational Congress on Microscopy (MCM 2019)
MEETING PLACE: Belgrade (Serbia)
YEAR: September 2019

AUTHORS: Ž. Gačević, M. Holmes, **S. Lazić**, D. López Romero and E. Calleja
TITLE: Ga(In)N nanowires grown by MBE: nanotransistors and quantum light emitters
TYPE OF PRESENTATION: Invited oral
CONGRESS: 20th European Workshop on Molecular Beam Epitaxy (EuroMBE 2019)
MEETING PLACE: Lenggries (Germany)
YEAR: February 2019

AUTHORS: A. Espinha, C. Gibaja, P. Ares, F. Zamora, H.P. van der Meulen, **S. Lazić**
TITLE: Quantum light emission from atom-like defects in hexagonal boron nitride
TYPE OF PRESENTATION: Keynote speaker
CONGRESS: 3rd International Symposium on Materials for Energy Storage and Conversion (ESC-IS 2018)
MEETING PLACE: Belgrade (Serbia)
YEAR: September 2018

AUTHORS: **S. Lazić**, E. Chernysheva, A. Hernández-Mínguez, P.V. Santos, H.P. van der Meulen
TITLE: Surface acoustic wave modulation of single photon emission from GaN/InGaN nanowire quantum dots
TYPE OF PRESENTATION: Invited oral
CONGRESS: METANANO 2018
PUBLICATION: IOP Conf. Series: J. Phys.: Conf. Ser. **1092**, 012075 (2018)
MEETING PLACE: Sochi (Russia)
YEAR: September 2018

AUTHORS: **S. Lazić**, E. Chernysheva, Ž. Gačević, H.P. van der Meulen, E. Calleja, J.M. Calleja
TITLE: Dynamic acoustic control of optically active quantum dot-like emission centers in III-Nitride nanowire heterostructures
TYPE OF PRESENTATION: Invited oral
CONGRESS: EMN Meeting on Quantum Communication & Quantum Imaging (QCQI 2016)
MEETING PLACE: Berlin (Germany)
YEAR: August 2016

AUTHORS: Ž. Gačević, M. Holmes, E. Chernysheva, A. Torres-Pardo, J.M. González Calbet, Y. Arakawa, E. Calleja, J.M. Calleja, **S. Lazić**
TITLE: Fabrication of III-nitride dot-in-a-wire single photon sources
TYPE OF PRESENTATION: Invited oral
CONGRESS: EMN Meeting on Quantum Communication & Quantum Imaging (QCQI 2016)
MEETING PLACE: Berlin (Germany)
YEAR: August 2016

AUTHORS: **S. Lazić**, E. Chernysheva, Ž. Gacevic, H.P. van der Meulen, E. Calleja, J.M. Calleja

TITLE: Dynamic control of quantum dot-like emission centers in III-nitride nanowire heterostructures by surface acoustic waves

TYPE OF PRESENTATION: Invited oral

CONGRESS: 33th International Conference on the Physics of Semiconductors (ICPS 2016)

MEETING PLACE: Beijing (China)

YEAR: July 2016

AUTHORS: **S. Lazić**, E. Chernysheva, Ž. Gačević, H.P. van der Meulen, E. Calleja and J.M. Calleja

TITLE: Towards single photons on-demand from site-controlled InGaN/GaN dot-in-a-nanowire heterostructures

TYPE OF PRESENTATION: Invited oral

CONGRESS: IX Meeting of Grupo Especializado de Física del Estado Sólido de la Real Sociedad Española de Física (GEFES 2016)

MEETING PLACE: Cuenca (Spain)

YEAR: January 2016

AUTHORS: **S. Lazić**, E. Chernysheva, Ž. Gačević, N. García-Lepetit, H.P. van der Meulen, M. Müller, F. Bertram, P. Veit, A. Torres-Pardo, J.M. González Calbet, J. Christen, E. Calleja and J.M. Calleja

TITLE: Ordered arrays of InGaN/GaN dot-in-a-wire nanostructures as single photon emitters

TYPE OF PRESENTATION: Invited oral

CONGRESS: Photonics West 2015 (Gallium Nitride Materials and Devices X)

PUBLICATION: Proc. Of SPIE (Gallium Nitride Materials and Devices X) **9363**, 93630U (2015)

MEETING PLACE: San Francisco (USA)

YEAR: February 2015

AUTHORS: P.V. Santos, **S. Lazić**, A. Violante, K. Cohen, R. Hey, R. Rapaport

TITLE: Exciton control and transport by acoustic fields

TYPE OF PRESENTATION: Invited oral

CONGRESS: 2nd International Conference on Photonic Crystals/Materials, Phonon Transport and Optomechanics (Photonics 2013)

MEETING PLACE: Sharm El-Sheikh (Egypt)

YEAR: June 2013

AUTHORS: Y. Shilo, K. Cohen, R. Rapaport, **S. Lazić**, A. Violante, R. Hey, P.V. Santos, K. West, L. Pfeiffer

TITLE: Cold dipolar exciton fluids on a chip: From many-body physics to multifunctional circuitry

TYPE OF PRESENTATION: Invited oral

CONGRESS: European workshop on indirect excitons (EU-ITN INDEX)

MEETING PLACE: Barcelona (Spain)

YEAR: December 2012

AUTHORS: S. Jiao, **S. Lazić**, P.V. Santos

TITLE: Electronic control in semiconductor nanostructures using surface acoustic phonons

TYPE OF PRESENTATION: Invited oral

CONGRESS: 2009 MRS Fall Meeting

PUBLICATION: Materials Research Society Symposium Proceedings: Phonon Engineering for Enhanced Materials Solutions – Theory and Applications, Vol. **1221**, 103 (2010)

MEETING PLACE: Boston, Massachusetts (USA)

YEAR: December 2009

AUTHORS: P.V. Santos, E. Cerda, **S. Lazić**, K. Biermann and R. Hey

TITLE: Surface Acoustic waves for the manipulation of excitons and microcavity polaritons

TYPE OF PRESENTATION: Invited oral

CONGRESS: 11th International Conference on Optics of Excitons in Confined Systems (OECS11)

PUBLICATION: Proc. of OECS11, Journal of Physics: Conference Series Vol. 210 (2010)

MEETING PLACE: Madrid (Spain)

Oral & poster contributions

**Presenting author underlined*

AUTHORS: S. Lazić, P. Ares, H. Santos, P. García-González and F. Zamora

TITLE: Strain tuned quantum light emitters in layered semiconductors

TYPE OF PRESENTATION: Oral

CONGRESS: International Conference on Nanophotonics and Photovoltaics (ICNP-2023)

MEETING PLACE: Samarkand (Uzbekistan)

YEAR: May 2023

AUTHORS: S. Lazić and E. Calleja

TITLE: Dynamic tuning of quantum light emission from GaN/InGaN nanowire quantum dots by surface acoustic waves

TYPE OF PRESENTATION: Oral

CONGRESS: 23rd Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2022)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2022

AUTHORS: S. Lazić, P. Ares, C. Gibaja, H. Santos, H.P. van der Meulen, J. Gómez-Herrero, P. García-González and F. Zamora

TITLE: Acoustically tuned non-classical light emission from atomic-scale defects in hexagonal boron nitride

TYPE OF PRESENTATION: Poster

CONGRESS: International Conference on the Physics of Semiconductors 2022 (ICPS 2022)

MEETING PLACE: Sydney (Australia)

YEAR: June 2022

AUTHORS: S. Lazić

TITLE: Dynamic acousto-mechanical tuning of quantum light emission from atomic defects in hexagonal boron nitride

TYPE OF PRESENTATION: Poster

CONGRESS: 726. WE-Heraeus-Seminar: Lattice-based Quantum Simulation

MEETING PLACE: Online conference (Germany)

YEAR: December 2021

AUTHORS: S. Lazić, S. Pinilla Yanguas, C. Gibaja, F. Zamora and H.P. van der Meulen

TITLE: Dynamic tuning of quantum light emission from atom-like defects in hexagonal boron nitride by surface acoustic waves

TYPE OF PRESENTATION: Oral

CONGRESS: Nanophotonics of 2D Materials (N2D2020)

MEETING PLACE: Online conference

YEAR: July 2020

AUTHORS: S. Lazić, S. Pinilla Yanguas, C. Gibaja, P. Ares, F. Zamora and H.P. van der Meulen

TITLE: Acoustically tuned quantum light emission from atom-like defects in hexagonal boron nitride

TYPE OF PRESENTATION: Oral

AUTHORS: N. Ignjatović, L. Mančić, M. Vuković, Z.S. Stojanović, M.G. Nikolić, S.D. Škapin, S. Jovanović, Lj. Veselinović, S. Lazić, S. Marković, D. Uskoković

TITLE: Hydroxyapatite nano particles doped with Gd^{3+} , Yb^{3+}/Tm^{3+} and Eu^{3+} as lumino-magnetic multimodal contrast agents

TYPE OF PRESENTATION: Oral

CONGRESS: 21st Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2019)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2019

AUTHORS: **S. Lazić**, I. Ayuso Pérez, Ž. Gačević and E. Calleja

TITLE: Acoustically driven optical polarization control of the quantum dot emission

TYPE OF PRESENTATION: Oral

CONGRESS: International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN20)

MEETING PLACE: Moscow - Suzdal (Russia)

YEAR: July 2019

AUTHORS: **S. Lazić**, A. Espinha, C. Gibaja, P. Ares, J. Gómez, F. Zamora, H.P. van der Meulen

TITLE: Surface Acoustic wave modulation of atomic defects in hexagonal boron nitride

TYPE OF PRESENTATION: Poster

AUTHORS: A. Espinha, **S. Lazić**, D. Maeso, G. Rubio-Bollinger, H.P. van der Meulen

TITLE: Strain induced photoluminescence in GaSe sheets

TYPE OF PRESENTATION: Poster

CONGRESS: 34th International Conference on the Physics of Semiconductors (ICPS 2018)

MEETING PLACE: Montpellier (France)

YEAR: July 2018

AUTHORS: A. Espinha, **S. Lazić**, D. Maeso, G. Rubio-Bollinger, H.P. van der Meulen

TITLE: Photoluminescence in GaSe sheets induced by strain

TYPE OF PRESENTATION: Poster

CONGRESS: 20th International Conference on Superlattices, Nanostructures and Nanodevices (ICSNN 2018)

MEETING PLACE: Madrid (Spain)

YEAR: July 2018

AUTHORS: **S. Lazić**, A. Espinha, C. Gibaja, P. Ares, J. Gómez, F. Zamora, H.P. van der Meulen

TITLE: Acoustically tuned quantum light from atomic defects in hexagonal boron nitride

TYPE OF PRESENTATION: Oral

CONGRESS: 3rd International Conference on Physics of 2D Crystals – hBN 2018 (ICP2C3 2018)

MEETING PLACE: La Valletta (Malta)

YEAR: May 2018

AUTHORS: **S. Lazić**, E. Chernysheva, H.P. van der Meulen, J.M. Calleja, Ž. Gačević, E. Calleja

TITLE: Acoustic tuning of single photon emission from site-controlled GaN/InGaN nanowire heterostructures

TYPE OF PRESENTATION: Poster

CONGRESS: SAWtrain Summer School: Physics and applications of GHz vibrations in semiconductors

MEETING PLACE: Cargèse, Corsica (France)

YEAR: July 2017

AUTHORS: Ž. Gačević, J. Granda, **S. Lazić**, M. Varela, E. Calleja

TITLE: Growth of self-assembled AlN nanowires on SiO₂/Si substrates

TYPE OF PRESENTATION: Oral

AUTHORS: Ž. Gačević, M. Holmes, E. Chernysheva, M. Müller, A. Torres-Pardo, P. Veit, F. Bertram, J. Christen, J.M. González-Calbet, Y. Arakawa, E. Calleja, **S. Lazić**

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

TYPE OF PRESENTATION: Oral

CONGRESS: 12th International Conference on Nitride Semiconductors (ICNS12)

MEETING PLACE: Strasbourg (France)

YEAR: July 2017

AUTHORS: Ž. Gačević, M. Holmes, E. Chernysheva, A. Torres-Pardo, J.M. González-Calbet, Y. Arakawa, E. Calleja, **S. Lazić**
TITLE: Nonpolar, semipolar and polar III-nitride dot-in-a-wire sources of linearly polarized single photons
TYPE OF PRESENTATION: Oral
CONGRESS: International Workshop on Nitride Semiconductors (IWN 2016)
MEETING PLACE: Orlando (USA)
YEAR: October 2016

AUTHORS: E. Chernysheva, Ž. Gačević, H.P. van der Meulen, E. Calleja, J.M. Calleja, **S. Lazić**
TITLE: Acoustically induced dynamic tuning of the optical emission from GaN/InGaN nanowire quantum dots
TYPE OF PRESENTATION: Oral
CONGRESS: 18th Young Researchers Meeting of the University Institute of Material Science “Nicolás Cabrera”
MEETING PLACE: Madrid (Spain)
YEAR: December 2015
-Chairperson of Session I

AUTHORS: E. Chernysheva, **S. Lazić**, Ž. Gačević, N. García-Lepetit, H.P. van der Meulen, E. Calleja and J.M. Calleja
TITLE: InGaN single photon emitters modulated by surface acoustic waves
TYPE OF PRESENTATION: Oral
AUTHORS: Ž. Gačević, **S. Lazić**, E. Chernysheva, A. Torres-Pardo, J.M. González-Calbet, J.M. Calleja and E. Calleja
TITLE: Arrays of GaN nanowires hosting polar and semipolar InGaN quantum dots
TYPE OF PRESENTATION: Poster
CONGRESS: 11th International Conference on Nitride Semiconductors (ICNS-11)
MEETING PLACE: Beijing (China)
YEAR: August 2015

AUTHORS: Ž. Gačević, **S. Lazić**, E. Chernysheva, N. Vukmirović, A. Torres-Pardo, J.M. González-Calbet, J.M. Calleja, E. Calleja
TITLE: Ordered InGaN/GaN nanowires as arrays of classical and quantum light sources: growth, characterization and modelling
TYPE OF PRESENTATION: Oral
CONGRESS: V International School and Conference on Photonics (PHOTONICA 2015)
MEETING PLACE: Belgrade (Serbia)
YEAR: August 2015

AUTHORS: Ž. Gačević, N. García-Lepetit, E. Chernysheva, **S. Lazić**, N. Vukmirović, M. Müller, S. Metzner, A. Torres-Pardo, S. Albert, A. Bengochea-Encabo, F. Bertram, J. Christen, J.M. González-Calbet, J.M. Calleja, E. Calleja
TITLE: A two color emitting InGaN nanodisk as a site-controlled source of classical and quantum light
TYPE OF PRESENTATION: Poster
CONGRESS: 18th European Molecular Beam Epitaxy Workshop (EUROMBE 2015)
MEETING PLACE: Canazei (Italy)
YEAR: March 2015

AUTHORS: E. Chernysheva, **S. Lazić**, Ž. Gačević, S. Albert, A. Bengochea-Encabo, M. Müller, F. Bertram, J. Christen, H.P. van der Meulen, J.M. Calleja, E. Calleja
TITLE: Ordered arrays of single photon emitters based on GaN nanowire heterostructures hosting InGaN nano-disks
TYPE OF PRESENTATION: Oral
CONGRESS: 16th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2014)
MEETING PLACE: Herceg Novi (Montenegro)
YEAR: September 2014

AUTHORS: E. Chernysheva, **S. Lazić**, Ž. Gačević, N. García-Lepetit, S. Albert, A. Bengochea-Encabo, M. Müller, F. Bertram, J. Christen, H.P. van der Meulen, J.M. Calleja, E. Calleja
TITLE: Single photon emitters based on (In,Ga)N quantum disks embedded into ordered arrays of GaN nanowires
TYPE OF PRESENTATION: Oral
AUTHORS: E. Chernysheva, **S. Lazić**, H.P. van der Meulen, J.M. Calleja
TITLE: Electric field dependent fine-structure splitting in single InAs/AlAs quantum dots
TYPE OF PRESENTATION: Poster
CONGRESS: 32th International Conference on the Physics of Semiconductors (ICPS 2014)
MEETING PLACE: Austin, Texas (USA)
YEAR: August 2014

AUTHORS: Ž. Gačević, **S. Lazić**, N. García-Lepetit, E. Chernysheva, S. Albert, A. Bengochea-Encabo, M. Müller, S. Metzner, A. Dempewolf, P. Veit, F. Bertram, J. Christen, J.M. Calleja, E. Calleja
TITLE: Ordered GaN/InGaN/GaN nanowires as arrays of single photon sources
TYPE OF PRESENTATION: Oral
CONGRESS: International Workshop on Nitride Semiconductors (IWN 2014)
MEETING PLACE: Wroclaw (Poland)
YEAR: August 2014

AUTHORS: E. Chernysheva, **S. Lazić**, Ž. Gačević, N. García-Lepetit, S. Albert, A. Bengochea-Encabo, M. Müller, F. Bertram, J. Christen, H.P. van der Meulen, J.M. Calleja, E. Calleja
TITLE: Ordered arrays of single photon emitters based on (In,Ga)N nano-disks embedded in GaN nanowires
TYPE OF PRESENTATION: Oral
CONGRESS: Compound Semiconductor Week (CSW 2014)
MEETING PLACE: Montpellier (France)
YEAR: May 2014

AUTHORS: Ž. Gačević, **S. Lazić**, N. García-Lepetit, E. Chernysheva, S. Albert, A. Bengochea-Encabo, S. Metzner, M. Müller, F. Bertram, J. Christen, J.M. Calleja, E. Calleja
TITLE: Single photon emission from InGaN quantum dots in GaN nanowires grown in ordered arrays
TYPE OF PRESENTATION: Oral
CONGRESS: EMRS 2014 Spring Meeting (EMRS 2014)
MEETING PLACE: Lille (France)
YEAR: May 2014

AUTHORS: M. Maragkou, C. Sánchez-Muñoz, **S. Lazić**, E. Chernysheva, H.P. van der Meulen, A. González-Tudela, C. Tejedor, L.J. Martínez, I. Prieto, P.A. Postigo, J.M. Calleja
TITLE: Intertalk between cavity-coupled quantum dot states dressed by bichromatic pumping
TYPE OF PRESENTATION: Oral
CONGRESS: 8th International Conference on Quantum Dots (QD 2014)
MEETING PLACE: Pisa (Italy)
YEAR: May 2014

AUTHORS: A. Violante, **S. Lazić**, K. Biermann, R. Hey, P.V. Santos, K. Cohen, R. Rapaport
TITLE: Indirect exciton transport and manipulation by confined acoustic potentials
TYPE OF PRESENTATION: Oral
CONGRESS: ETSF Young Researchers' Meeting 2014: Evolution of ab-initio methods for condensed matter – Connection with experiments and industry
MEETING PLACE: Rome (Italy)
YEAR: May 2014

AUTHORS: E. Chernysheva, **S. Lazić**, J.M. Calleja
TITLE: Semiconductor nanostructures for generation of polarization-entangled photons
TYPE OF PRESENTATION: Poster

CONGRESS: 6th NTT-BRL School
MEETING PLACE: NTT Atsugi R&D Center (Japan)
YEAR: November 2013

AUTHORS: Y. Shilo, K. Cohen, R. Rapaport, **S. Lazić**, A. Violante, R. Hey, P.V. Santos, K. West, L. Pfeiffer

TITLE: Observation of quantum and classical correlation regimes in cold dipolar exciton fluids

TYPE OF PRESENTATION: Oral

CONGRESS: 20th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS-20)

MEETING PLACE: Wroclaw (Poland)

YEAR: July 2013

AUTHORS: **S. Lazić**, A. Violante, R. Hey, P.V. Santos, K. Cohen, R. Rapaport

TITLE: Transport-based integrated exciton multiplexer – Towards optical signal processing using excitons

TYPE OF PRESENTATION: Oral

CONGRESS: 14th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2012)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2012

-Chairperson of Symposium C: Nanostructured Materials

AUTHORS: **S. Lazić**, A. Violante, K. Biermann, R. Hey, P.V. Santos, K. Cohen, R. Rapaport

TITLE: Exciton dynamics in confined acoustic potentials – Towards optical signal processing using excitons

TYPE OF PRESENTATION: Oral

AUTHORS: K. Cohen, R. Rapaport, **S. Lazić**, P.V. Santos, L.N. Pfeiffer

TITLE: Remote dipolar interactions for objective density calibration and flow control of excitonic fluids

TYPE OF PRESENTATION: Poster

CONGRESS: 31th International Conference on the Physics of Semiconductors (ICPS 2012)

MEETING PLACE: Zurich (Switzerland)

YEAR: August 2012

AUTHORS: **S. Lazić**, R. Hey, P.V. Santos

TITLE: Mechanism of photon antibunching in acoustically pumped quantum dots

TYPE OF PRESENTATION: Oral

CONGRESS: 7th International Conference on Quantum Dots (QD 2012)

MEETING PLACE: Santa Fe, New Mexico (USA)

YEAR: May 2012

AUTHORS: **S. Lazić**, R. Hey, P.V. Santos

TITLE: Long-range transport of indirect excitons by dynamic strain dots in GaAs double quantum wells

TYPE OF PRESENTATION: Poster

CONGRESS: German Physical Society (DPG) Spring Meeting

MEETING PLACE: Berlin (Germany)

YEAR: March 2012

AUTHORS: **S. Lazić**, R. Hey, P.V. Santos

TITLE: On-demand single photon sources in (311)A GaAs/AlGaAs heterostructures

TYPE OF PRESENTATION: Oral

CONGRESS: 38th International Symposium on Compound Semiconductors (ISCS 2011)

MEETING PLACE: Berlin (Germany)

YEAR: May 2011

AUTHORS: **S. Lazić**, R. Hey, P.V. Santos

TITLE: On-demand single photon source in (311)A GaAs quantum dots

TYPE OF PRESENTATION: Oral
CONGRESS: German Physical Society (DPG) Spring Meeting
MEETING PLACE: Dresden (Germany)
YEAR: March 2011

AUTHORS: **S. Lazić**, O.D.D. Couto Jr., F. Iikawa, J.A.H. Stotz, U. Jahn, R. Hey, P.V. Santos
TITLE: Single-photon sources based on acoustic transport of carriers in (311)A (Al,Ga)As/GaAs quantum wells

TYPE OF PRESENTATION: Poster

AUTHORS: A. Hernández-Mínguez, K. Biermann, **S. Lazić**, R. Hey, P.V. Santos
TITLE: Kerr detection of acoustic spin transport in GaAs (110) quantum wells

TYPE OF PRESENTATION: Poster

CONGRESS: 3rd International Summer School Son et Lumière: Phononics and photonics at nanoscale (Ecole Thématique CNRS 2010)

MEETING PLACE: Cargèse (France)

YEAR: September 2010

AUTHORS: **S. Lazić**, O.D.D. Couto Jr., F. Iikawa, J.A.H. Stotz, U. Jahn, R. Hey, P.V. Santos

TITLE: Acoustically-driven single photon sources on (311)A GaAs

TYPE OF PRESENTATION: Oral

CONGRESS: 30th International Conference on the Physics of Semiconductors (ICPS-30)

PUBLICATION: AIP Conf. Proc. **1399**, 1035 (2011)

MEETING PLACE: Seoul (Korea)

YEAR: July 2010

AUTHORS: **S. Lazić**, O.D.D. Couto, Jr., F. Iikawa, J.A.H. Stotz, R. Hey, P.V. Santos

TITLE: Photon anti-bunching acoustically pumped dots

TYPE OF PRESENTATION: Oral

CONGRESS: 11th Annual conference of the Yugoslav Materials Research Society (YUCOMAT 2009)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2009

AUTHORS: **S. Lazić**, R. Hey, P.V. Santos

TITLE: Exciton transport by moving strain dots in GaAs quantum wells

TYPE OF PRESENTATION: Oral

PUBLICATION: Physica E **42**, 2640 (2010)

AUTHORS: O.D.D. Couto, Jr., **S. Lazić**, F. Iikawa, J.A.H. Stotz, R. Hey, P.V. Santos

TITLE: Evidence for photon anti-bunching in acoustically pumped dots

TYPE OF PRESENTATION: Poster

PUBLICATION: Physica E **42**, 2497 (2010)

CONGRESS: 14th International Conference on Modulated Semiconductor structures (MSS-14)

MEETING PLACE: Kobe (Japan)

YEAR: July 2009

AUTHORS: **S. Lazić**, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García, E. Calleja, A. Trampert, E. Luna

TITLE: Raman scattering by coupled plasmon-LO phonons in InN nanocolumns

TYPE OF PRESENTATION: Poster

CONGRESS: Semiconductor Spinelectronics Summer School

MEETING PLACE: Goslar (Germany)

YEAR: September 2008

AUTHORS: E. Gallardo, **S. Lazić**, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García and E. Calleja

TITLE: Electron Accumulation Layers in InN Nanocolumns Studied by Raman Scattering

TYPE OF PRESENTATION: Poster

PUBLICATION: AIP Conf. Proc. **1199**, 325 (2010)
CONGRESS: 29th International Conference on Physics of Semiconductors (ICPS 29)
MEETING PLACE: Rio de Janeiro (Brazil)
YEAR: August 2008

AUTHORS: **S. Lazić**, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García, E. Calleja

TITLE: Raman scattering by coupled plasmon-LO phonons in InN nanocolumns

TYPE OF PRESENTATION: Poster

PUBLICATION: phys. stat. sol. (c) **5**, 1562 (2008)

AUTHORS: E. Gallardo, **S. Lazić**, J.M. Calleja, J. Miguel-Sánchez, M. Montes, A. Hierro, R. Gargallo-Caballero, A. Guzmán, E. Muñoz, A.M. Teweldeberhan, S. Fahy

TITLE: Local vibration modes and nitrogen incorporation in AlGaAs:N layers

TYPE OF PRESENTATION: Poster

PUBLICATION: phys. stat. sol. (c) **5**, 2345 (2008)

CONGRESS: 7th International Conference of Nitride Semiconductors (ICNS7)

MEETING PLACE: Las Vegas, Nevada (USA)

YEAR: September 2007

AUTHORS: E. Gallardo, **S. Lazić**, J.M. Calleja, J. Miguel-Sánchez, M. Montes, A. Hierro, R. Gargallo-Caballero, A. Guzmán, E. Muñoz, A.M. Teweldeberhan and S.Fahy

TITLE: Resonant Raman study of local vibration modes in AlGaAsN layers

TYPE OF PRESENTATION: Poster

PUBLICATION: Physica E **40**, 2084 (2008)

AUTHORS: **S. Lazić**, E. Gallardo, J.M. Calleja, F. Agulló-Rueda, J. Grandal, M.A. Sánchez-García and E. Calleja

TITLE: Raman scattering by longitudinal optical phonons in InN nanocolumns grown on Si(111) and Si(001) substrates

TYPE OF PRESENTATION: Poster

PUBLICATION: Physica E **40**, 2087 (2008)

CONGRESS: 13th International Conference on Modulated Semiconductor Structures (MSS13)

MEETING PLACE: Genoa (Italy)

YEAR: July 2007

AUTHORS: **S. Lazić**, J.M. Calleja, F. Agulló-Rueda, M.A. Sánchez-García, J. Grandal, E. Calleja, A. Trampert

TITLE: Inelastic light scattering by the longitudinal optical phonons in InN nanocolumns and compact layers

TYPE OF PRESENTATION: Poster

CONGRESS: 7th International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN7)

MEETING PLACE: Havana (Cuba)

YEAR: April 2007

AUTHORS: **S. Lazić**, J.M. Calleja, M.A. Sánchez-García, J. Grandal, E. Calleja, A. Trampert

TITLE: Raman scattering by the longitudinal optical phonons in InN nanocolumns and compact layers

TYPE OF PRESENTATION: Oral

CONGRESS: 8th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2006)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2006

AUTHORS: **S. Lazić**, J.M. Calleja, F. Agullo-Rueda, M.A. Sánchez-García, J. Grandal, E. Calleja, A. Trampert

TITLE: Coupled longitudinal optical phonon-plasmon modes in InN nanocolumns

TYPE OF PRESENTATION: Poster

PUBLICATION: AIP Conf. Proc. **893**, 287 (2007)

CONGRESS: 28th International Conference on the Physics of Semiconductors (ICPS-28)

MEETING PLACE: Vienna (Austria)

YEAR: July 2006

AUTHORS: **S. Lazić**, J.M. Calleja, R. Hey, K. Ploog

TITLE: Complejos de N y modos locales en multipozos cuánticos de AlGaAs/InGaAsN

TYPE OF PRESENTATION: Poster

CONGRESS: IV Reunión Anual del Grupo Especializado de Física de Estado Sólido (GEFES 2006)

MEETING PLACE: Alicante (Spain)

YEAR: February 2006

AUTHORS: **S. Lazić**, J.M. Calleja, R. Hey, K.H. Ploog

TITLE: Composition dependent resonant Raman scattering in $Al_{0.33}Ga_{0.67}As/In_xGa_{1-x}As_{1-y}N_y$ multiquantum wells

TYPE OF PRESENTATION: Oral

PUBLICATION: Mater. Sci. Forum **518**, 17 (2006)

CONGRESS: 7th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2005)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2005

AUTHORS: **S. Lazić**, J.M. Calleja, R. Hey and K.H. Ploog

TITLE: Raman study of N bonding in AlGaAs/InGaAsN multiquantum wells

TYPE OF PRESENTATION: Poster

PUBLICATION: phys. stat. sol. (b) **243**, 1634 (2006)

AUTHORS: M.A. Sánchez-García, J. Grandal, E. Calleja, **S. Lazić**, J.M. Calleja and A. Trampert

TITLE: Epitaxial growth and characterization of InN nanorods and compact layers on silicon substrates

TYPE OF PRESENTATION: Poster

PUBLICATION: phys. stat. sol. (b) **243**, 1490 (2006)

CONGRESS: 6th International Conference on Nitride Semiconductors (ICNS-6)

MEETING PLACE: Bremen (Germany)

YEAR: August 2005

AUTHORS: **S. Lazić**, J.M. Calleja, R. Hey, K.H. Ploog

TITLE: Resonant Raman scattering by N-related local modes in AlGaAs/InGaAsN multiquantum wells

TYPE OF PRESENTATION: Poster

PUBLICATION: Physica E **32**, 277 (2006)

CONGRESS: 12th International Conference on Modulated Semiconductor Structures (MSS-12)

MEETING PLACE: Albuquerque, New Mexico (USA)

YEAR: July 2005

AUTHORS: **S. Lazić**, J.M. Calleja, F.B. Naranjo, S. Fernández, E. Calleja

TITLE: Resonant Raman scattering in strained and relaxed InGaN/GaN multiple quantum wells

TYPE OF PRESENTATION: Oral

CONGRESS: Third Seminar for young researchers (TSMI 2004), Serbian Academy of Sciences and Arts

MEETING PLACE: Belgrade (Serbia)

YEAR: December 2004

AUTHORS: **S. Lazić**, J.M. Calleja, F.B. Naranjo, S. Fernández, E. Calleja

TITLE: Resonant Raman scattering in strained and relaxed InGaN/GaN multiple quantum wells

TYPE OF PRESENTATION: Oral

PUBLICATION: Mater. Sci. Forum **494**, 19 (2005)

CONGRESS: 6th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2004)

MEETING PLACE: Herceg Novi (Montenegro)

YEAR: September 2004

AUTHORS: **S. Lazić**, J.M. Calleja, F.B. Naranjo, S. Fernández, E. Calleja

TITLE: Resonant Raman study of strain and composition in InGaN multiquantum wells
TYPE OF PRESENTATION: Poster
PUBLICATION: AIP Conf. Proc. **772**, 221 (2005)
CONGRESS: 27th International Conference on the Physics of Semiconductors (ICPS-27)
MEETING PLACE: Flagstaff, Arizona (USA)
YEAR: July 2004

AUTHORS: **S. Lazić**, M. Moreno, J.M. Calleja, F.B. Naranjo, E. Calleja
TITLE: Resonant Raman scattering in InGaN/GaN multiquantum wells
TYPE OF PRESENTATION: Poster
CONGRESS: III Reunión Anual del Grupo Especializado de Física de Estado Sólido (GEFES 2004)
MEETING PLACE: San Sebastian (Spain)
YEAR: June 2004

Conference Presentations summary

- I have contributed to 83 international scientific conferences with 1 plenary and 16 invited talks (6 given by my co-authors), 35 oral contributions (of which 15 were presented either by a PhD student working under my supervision or by my co-authors), 31 poster contributions (of which 12 were presented either by a PhD student working under my supervision or by my co-authors).

Invited seminars

- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Institute Seminar entitled: “Strain tuned non-classical light emission from localized defect states in 2D layered semiconductors”, November 2022.
- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Group Seminar entitled: “Towards sound tuned non-classical light emission from atomic defects in 2D layered semiconductors”, August 2022.
- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Institute Seminar entitled: “Ordered arrays of InGaN/GaN dot-in-a-wire nanostructures as single photon emitters”, June 2015.
- Institute of Solid State Physics at the University Bremen (Germany) – Institute Seminar entitled: “Violet-to-green quantum light emitters based on site-controlled GaN nanowires hosting InGaN nano-disks”, December 2014.
- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Group Seminar entitled: “Semiconductor QDs for generation of polarization-entangled photons”, Semiconductor Spectroscopy Group - Group leader: Dr. Paulo Santos, September 2013.
- Department of Physics of Materials, Faculty of Science, Universidad Autónoma de Madrid (Spain) – Department Seminar entitled: “Control of elementary excitations by acoustic fields in semiconductor structures”, November 2012.
- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Seminar entitled: “Photon antibunching in acoustically pumped quantum dots” selected for Institute’s Scientific Advisory Board Meeting by the institute’s Scientific Committee, November 2009.
- Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany) – Institute Seminar entitled: “Acoustically pumped single photon sources”, October 2009.

Organization of scientific events (national & international)

- **Member of the Organizing Committee** of the 12th Young Researcher’s Conference; December 2013; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 13th Young Researcher’s Conference; December 2014; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).

- **Member of the Organizing & Scientific Committee** of the 18th Young Researchers Meeting of the University Institute of Material Science “Nicolás Cabrera”; December 2015; Universidad Autónoma de Madrid (Spain).
- **Member of the Organizing Committee** of the 14th Young Researcher’s Conference; December 2015; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing & Scientific Committee** of the EMN Conference: Energy, Materials & Technology Meeting on Quantum Communication & Quantum Imaging (QCQI 2016); August 2016; Center of NanoPhotonics, Institut für Festkörperphysik, Technical University of Berlin & Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu (China); Berlin (Germany).
- **Member of the Organizing Committee** of the 15th Young Researcher’s Conference; December 2016; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 16th Young Researcher’s Conference; December 2017; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 17th Young Researcher’s Conference; December 2018; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 18th Young Researcher’s Conference; December 2019; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Scientific Evaluation Committee** at the 21st Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2019); September 2019; Herceg Novi (Montenegro).
- **Member of the Scientific Evaluation Committee** at the 14th Multinational Congress on Microscopy (MCM 2019); September 2019; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 19th Young Researcher’s Conference; December 2021; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).
- **Member of the Organizing Committee** of the 19th Young Researcher’s Conference; December 2022; Material Science and Engineering- Materials Research Society of Serbia & Institute of Technical Sciences of the Serbian Academy of Sciences and Arts; Belgrade (Serbia).

Conference Chairperson Activities

- Chairperson of Symposium C: Nanostructured Materials – 14th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2012), September 2014, Herceg Novi (Montenegro).
- Chairperson at the 8th Conference on Advanced Ceramics and Applications (ACA VIII), September 2019, Belgrade (Serbia).
- Chairperson at the 18th Young Researchers Meeting of the University Institute of Material Science “Nicolás Cabrera”, December 2015, Universidad Autónoma de Madrid (Spain).
- Chairperson of Symposium A: Advanced Methods in Synthesis and Processing of Materials – 23rd Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2022), September 2022, Herceg Novi (Montenegro).

THESIS SUPERVISED

Ph. D. Thesis

TITLE: Single photon source based on InGaN/GaN dot-in-a-wire heterostructure

Ph. D. STUDENT: Ms. Ekaterina Chernysheva

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: January 12, 2017

MARK: Sobresaliente Cum Laude (*highest honors*)

International Doctorate

Master Thesis

TITLE: Generation and optical characterization of strain-induced single photon emitters in 2D materials

MASTER STUDENT: Mr. Ismael de Pedro Embid

MASTER PRGORAM: Master en Materiales Avanzados, Nanotecnología y Fotónica

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: September 2021

MARK: Sobresaliente Cum Laude (*highest honors*)

Co-supervision with Prof. Dr. H.P. van der Meulen

TITLE: Optical characterization and acousto-optoelectric control of nanowire-based quantum emitters in III-nitrides

MASTER STUDENT: Mr. Miguel Dosil García

MASTER PRGORAM: Master en Materiales Avanzados, Nanotecnología y Fotónica

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: September 2021

MARK: Sobresaliente

TITLE: Emisión de fotones individuales en h-BN

MASTER STUDENT: Mr. Rodrigo Calvo Membibre

MASTER PRGORAM: Master en Materiales Avanzados, Nanotecnología y Fotónica

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: June 2018

MARK: Sobresaliente (9.3)

Co-supervision with Prof. Dr. H.P. van der Meulen

TITLE: Effects of the electric field on the photon polarization state in GaN/InGaN nanowire quantum dots

MASTER STUDENT: Ms. Irene Ayuso Pérez

MASTER PRGORAM: Master in Materials Engineering – Higher Technical School of Civil Engineers, Universidad Politécnica de Madrid (Spain)

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: September 2017

MARK: Sobresaliente

Co-supervision with Dr. Ž. Gačević from Universidad Politécnica de Madrid

TITLE: Polarized comparative study of optical emission of polar and non-polar quantum dots in GaN/InGaN nanowires

MASTER STUDENT: Ms. Sanja Đudić

MASTER PROGRAM: Master in Physics – Faculty of Physics, University of Belgrade (Serbia)

UNIVERSITY: Universidad Autónoma de Madrid (Spain)

FACULTY/SCHOOL: Faculty of Science, Department of Physics of Materials

YEAR: July 2017

MARK: Sobresaliente Cum Laude (*highest honors*)

Co-supervision with Doc. Dr. S. Maletić from University of Belgrade

OTHER ACHIEVEMENTS

- I3 certificate for outstanding research career (ANIRC Ramón y Cajal I3 programme). April 2016.
- Two I3 certificate re-evaluations (for Ramón y Cajal researchers - Call 2011), Area: Physics and its Applications. September 2019 & August 2022. Score: Excellent on-going research activities
- Positive evaluation of ANECA for Associate Professor (Profesor Contratado Doctor & Profesor de Universidad Privada), Assistant Professor (Profesor Ayudante Doctor). July 2016.
- Member of the Department Council (Consejo de Departamento), Department of Physics of Materials, Faculty of Science, Universidad Autónoma de Madrid (Spain). *Since April 2012.*
- Member of the University Institute of Material Science “Nicolás Cabrera”, Universidad Autónoma de Madrid. *Since April 2015.*
- Member of the Condensed Matter Physics Center (IFIMAC) - María de Maeztu Excellence Research Institute, Universidad Autónoma de Madrid. *Since April 2012.*
- 2018: Member of Gender Equality Committee at UAM - promoting and strengthening the role of women in Science
- Participation in peer review processes for journals: “ACS Nano”, “Light: Science & Applications”, “Nature Photonics”, “Optics Letters”, “Advanced Quantum Technologies”, “Communication Physics”, “Nanomaterials”, “Advanced Materials”, etc.
- Topical Advisory Panel Member of Materials for journal Nanomaterials (https://www.mdpi.com/journal/materials/topical_advisory_panel)
- Special Issue Guest Editor for journals Nanomaterials and Frontiers in Physics.
- Evaluation of R&D projects: Member of the Scientific Review Committee for the Agency “Agence Nationale de la Recherche” (ANR), France, 2018.
- Evaluation of R&D project for: The Office of Basic Sciences (BES), Department of Energy Office of Science, USA, 2020.
- Member of Expert Evaluation Network for the General Directorate of Research and Technological Innovation, Madrid Autonomous Community, since 2020.
- Member of Expert Evaluation in the Area of the Funding and Tenders Portal, European Research Executive Agency (REA) of the European Commission, since 2021.
- Acted as Member of PhD Thesis Committee (PhD Candidate: Antonio Crespo Poveda, Title of Doctoral Dissertation: “Integrated photonic routers driven by Surface acoustic waves”); Thesis Supervisors: Prof. Dr. Maurício Morais de Lima, Jr.; Department of Applied Physics and Electromagnetism, University of Valencia (Spain); 2016.
- Acted as Member of PhD Thesis Committee (PhD Candidate: María Isabel Gómez Gómez, Title of Doctoral Dissertation: “Composición, estructura interna y transporte electrónico de nanohilos individuales de $\text{In}_{1-x}\text{Ga}_x\text{N}$ e InN ”); Thesis Supervisors: Prof. Dr. Núria Garro Martínez & Prof. Dr.

Andrés Cantarero Sáez; Department of Applied Physics and Electromagnetism, University of Valencia (Spain); 2014.

- European Research Council (ERC) “Starting Grant” applicant; Successfully completed the first evaluation step (Step 1); Final score (Step 1 & Step 2): "B"; February 2015.
- Personal Computer Maintenance Certificate, Multi Media Systems – Centre for Computer Education & Engineering, Belgrade (Serbia), March 2003 – April 2003.

Honors and awards

- Best oral presentation award at the 8th Annual Conference of the Yugoslav Materials Research Society (YUCOMAT 2006); Herceg Novi (Montenegro).
- Selected by the institute’s Scientific Committee as Honorable Presenter at the institute’s Scientific Advisory Board Meeting; Presentation title: “Photon antibunching in acoustically pumped quantum dots”; Paul-Drude-Institut für Festkörperelektronik, Berlin (Germany); November 2009.
- Selected by the European Commission, Joint Research Center (JRC) – European Personnel Selection Office (EPSO) as: Research & Development Contract Agent for the European Center of Applied Science and Technology (CAST) in the field of Natural Sciences (EPSO/CAST/S/5/2013); http://europa.eu/epso/doc/call-cast-jrc-s5-2013_en.pdf

**AWARDED RESEARCH
FELLOWSHIPS
& GRANTS**

Research Grant *State Programme for the Promotion of Talent and its Employability in Research & Development & Innovation (R + D + i) of the State Plan for Scientific and Technical Research and Innovation: "Research stays abroad for the mobility of Professors and Senior Researchers"*

Funding entity *Spanish Ministry of Science, Innovation and Universities (MCIU)*

Host institute *Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V. (Germany)*

Duration *July 01, 2022 – December 31, 2022*

Research Grant *State Program for the Promotion of Talent and its Employability in R + D + i: Mobility Stays Abroad "José Castillejo" for young doctors; Title: "Controllable production and manipulation of entangled photon pairs using surface acoustic waves in semiconductor nanostructures"; Ref: CAS18/00306*

Funding entity *Spanish Ministry of Science, Innovation and Universities (MCIU)*

Host institute *Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V. (Germany)*

Duration *October 2018 – December 2018*

Research Grant *Ramón y Cajal grant (RYC-2011-09528)*

Funding entity *Spanish Ministry of Economy and Competitiveness (MINECO)*

Host institute *Universidad Autónoma de Madrid (Spain)*

Duration *2012 - 2018*

Fellowship *Postdoctoral research fellowship*

Funding entity *Forschungsverbund Berlin e.V.*

Host institute *Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V. (Germany)*

Duration *2008 - 2009*

Fellowship *FPU (University Professorship Formation) doctoral fellowship (AP2003-2239, Convocatoria 2003 – B.O.E. 29-07-2003)*

Funding entity *Spanish Ministry of Education, Culture and Sport (MECD)*

Host institute *Universidad Autónoma de Madrid (Spain)*

Duration *2004 - 2008*

Fellowship *Ph.D. training fellowship (under R&D Project: "Acoplamiento luz-materia y fenómenos colectivos en nanoestructuras de semiconductores" – Ref.: MAT2002-00139)*

Funding entity *Spanish Ministry of Science and Technology (MCyT)*

Host institute *Universidad Autónoma de Madrid (Spain)*

Duration *2003*

TEACHING ACTIVITIES

- 2012 - Present Associate Professor (Profesor Contratado Doctor) & “ Ramón y Cajal” Research Associate – Faculty of Science & Faculty of Economics, Universidad Autónoma de Madrid (Spain)
- Courses:
- Undergraduate level:
- Fundamentals of Physics 1 (‘Fundamentos de Física 1’) - (Academic years 2013-2014, 2014-2015, 2015-2016, 2016-2017 & 2017-2018), Theory and problem solving
- Physics 2 (‘Física 2’) - (Academic year 2019-2020), Theory and problem solving
- Photonics (‘Fotónica’) - Course Coordinator (Academic year 2021-2022, 2022-2023), Theory and problem solving
- Experimental Techniques 1 (‘Técnicas Experimentales 1’) - (Academic years 2012-2013, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021 & 2021-2022), Theory and experiments
- Experimental Techniques 3 (‘Técnicas Experimentales 3’) - (Academic year 2018-2019), Theory and experiments
- Meteorology and air transport (‘Meteorología y Transporte Aereo’) – Course Coordinator (Academic year 2018-2019 & 2019-2020), Theory and problem solving
- Graduate level:
- End-of-degree project (‘Trabajo Fin de Grado’) – Student supervisor, theory and experiments
- Introduction to Research (‘Iniciación a la Investigación’) – Student supervisor, theory and experiments
- Professional Training Internship (‘Prácticas Externas’) – Student supervisor, theory and experiments
- Master level:
- Laboratory of Advanced Materials (‘Laboratorio de Materiales Avanzados’) - Course Coordinator (Academic years 2020-2021, 2021-2022 & 2022-2023), Theory and experiments
- Experimental Photonics (‘Fotónica Experimental’) - (Academic years 2012-2013, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019 & 2019-2020), Theory and experiments
- Laboratory of Advanced Materials and Photonics (‘Laboratorio de Materiales Avanzados y Fotónica’) - Course Coordinator (Academic year 2013-2014), Theory and experiments
- Advanced Materials Characterization Techniques II (‘Técnicas Avanzadas de Caracterización de Materiales II’) - Theory
- Other Responsibilities: Graduate Student Advisor - (Academic Years: 2013-2014 & 2016-2017) & Member of Evaluating Committee for End-of-degree graduate projects - (Academic Years: 2015-2016 & 2017-2018) & Member Evaluating Committee for Master's degree final projects (Master in Physics) - (Academic Years: 2016-2017 & 2019-2020), etc.
- 2005 - 2006 Assistant Professor (Ph.D. Researcher) – Faculty of Science, Universidad Autónoma de Madrid (Spain)
- Courses: Undergraduate level – Experimental Techniques 1 (‘Técnicas Experimentales 1’) - Theory and experiments

PERSONAL SKILLS

Computer skills **Operating Systems:** Windows, UNIX, LINUX, MSDOS
Programming Languages: Basic/QBasic, Fortran, Python, C/C++/C#, MATLAB, Origin C & LabTalk
Software/Applications: Microsoft Office/OpenOffice (Word/Writer, Excel/Calc, PowerPoint/Impress), Adobe Photoshop, Adobe Illustrator, Adobe InDesign, CorelDRAW, SolidWorks, Rhinoceros 3D, OrCAD, Altium Designer (Protel), LASI, OriginLab, LabVIEW, Mathematica, etc.
NOTE: Developed Stand-Alone Software Packages in C++ & C# for Completely Automated Laboratory Experimental Measurements and Data Analysis.

Job-related skills **Areas of research expertise:** material science, solid-state physics, acoustics in solid state, semiconductor quantum structures, semiconductor device physics, optical spectroscopy, photonics, low-temperature physics, quantum optics, quantum information technology, condensed matter physics
Experimental techniques expertise: Raman spectroscopy, spatial, time- and polarization-resolved micro-photoluminescence spectroscopy, time-resolved Kerr reflectometry, photon correlation spectroscopy, infrared reflectance and ellipsometry, secondary ion mass spectroscopy, scanning electron microscopy, cleanroom micro/nanofabrication techniques, etc.

Summary **Experienced in:** project management and team coordination; designing, implementing and conducting scientific research and experiments across several interdisciplinary research areas, including semiconductor nanotechnology, optical spectroscopy, acoustics in semiconductors, quantum optics, condensed matter physics, photonics and optoelectronics; teaching at undergraduate and postgraduate level; training and supervision of Ph.D. and Master students; writing research/project proposals, research progress reports and scientific publications; establishing scientific collaborations with international research centers; etc.
NOTE: Since 2012 at the UAM: I have been the driving force (by initiating, designing, implementing & realizing) and am currently responsible of all surface acoustic wave technologies & experiments. This puts my ongoing research in an excellent position (unique in Spain) to explore novel concepts in quantum photonic sources based on acousto-optoelectric effects in semiconductor nanostructures.