



Periodical Dissemination and Communication Activities (3/3)

## Deliverable 7.7 - PUBLIC

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## Executive Summary

The Report on Periodic Dissemination and Communication Activities is Deliverable 7.7 of the Quantimoney project. In our Work Plan, it is described in the Work Package 7: “Knowledge Dissemination, Communication & Exploitation” as the third of the three reports on the Consortium’s dissemination and communication activities, due in M18, M30 and M42.

This Deliverable has been drafted by the Head of the Dissemination and Public Engagement Committee Richard Beanland (UOW) and the Network Coordination Office of the project. It reports on the dissemination, outreach and communication activities that have been produced as well as those in which consortium members have participated during the first and second reporting periods.

## Dissemination Activities

### 1. Scientific publications

Up to this date, 26 scientific publications acknowledging the project have been produced: 20 Journal articles and 6 Conference Proceedings. The dissemination activities in each node are shown in Table 1 below.

#### List of Journal articles:

1. S. Catalán-Gómez *et al* (2024) [Gallium nanoparticles as antireflection structures on III-V solar cells](#) *Sol. Mat.* 265 112632
2. Borislav Petrović *et al* (2024) [Comparison between InAs-based and GaSb-based interband cascade lasers with hybrid superlattice plasmon-enhanced claddings](#) accepted *Optical Materials Express*
3. Daniele Soccodato *et al* (2024) [Machine learned environment-dependent corrections for a sp3d5s\\* empirical tight-binding basis](#) *Mach. Learn.: Sci. Technol.* 5 025034
4. Anh-Luan Phan *et al* (2024) [Empirical tight-binding method for large-supercell simulations of disordered semiconductor alloys](#) *Phys. Scr.* 99 075903
5. Borislav Petrović *et al* (2024) [5.0 μm emitting interband cascade lasers with superlattice and bulk AlGaAsSb claddings](#) *J. Vac. Sci. Technol. B* 42, 043202
6. Borislav Petrović *et al* (2024) [GaSb-based interband cascade laser with hybrid superlattice plasmon-enhanced claddings](#) *Appl. Phys. Lett.* 124, 241101
7. Lucie Leguay *et al* (2024) [Unveiling the electronic structure of GaSb/AlGaSb quantum dots emitting in the third telecom window](#), *Mater. Quantum. Technol.* 4 015401
8. Jose M. Llorens & B. Alén (2023) [Inverse Design of a Hybrid Mie-Tamm Photonic Structure as a Highly Directional Gigahertz Single-Photon Source](#), *Phys. Rev. Applied*, 2331- 7019
9. Aurelia Trevisan *et al.* (2023) [Defect formation in InGaAs/AlSb/InAs memory devices](#), *Journal of Vacuum Science and Technology B*, 2166- 2746
10. Jaime Dolado *et al* (2023) [Interplay between Crystal Structure and Optical Response in Plateau-Rayleigh Zn2GeO4/SnO2 Heterostructures](#), *Advanced Photonics Research* vol. 4 (8). 2699-9293
11. David González *et al* (2023) [Identification of the Segregation Kinetics of Ultrathin GaAsSb/GaAs Films Using AlAs Marker](#), *Nanomaterials* 13, no. 5: 798.
12. V. Braza *et al* (2022) [Growth interruption strategies for interface optimization in GaAsSb/GaN type-II superlattices](#) *Appl. Surf. Sci.* 604 154596
13. A. Mittelstädt *et al* (2022) [Modeling electronic and optical properties of III-V quantum dots—selected recent developments](#), *Light: Science & Applications* vol. 11 (1) 2047-7538
14. V. Laurindo *et al* (2022) [Spin-dependent analysis of homogeneous and inhomogeneous exciton decoherence in magnetic fields](#). *Physical Review B* vol. 105 Iss. 4, 2469-9969
15. F. Rothmayr *et al* (2022) [Resonant Tunneling Diodes: Mid-Infrared Sensing at Room Temperature](#). *Nanomaterials* 12 (6), 1024
16. P. Steindl *et al* (2021) [On the importance of antimony for temporal evolution of emission from self-assembled \(InGa\)\(AsSb\)/GaAs quantum dots on GaP\(001\)](#) *New J. Phys.* vol 23, 103029
17. E. D. Guarín Castro *et al* (2021) [Optical Mapping of Nonequilibrium Charge Carriers](#) *J. Phys. Chem.* 125, 27, 14741–14750
18. Y. Soler-Castillo *et al* (2021) [Modelling of the efficiency of the photovoltaic modules: Grid-connected plants to the Cuban national electrical system](#) *Solar Energy* vol 223, pp. 150-157, 0038-092X
19. Andrea Alessio *et al* (2021) [Functional Modifications Induced via X-ray Nanopatterning in TiO2 Rutile Single Crystals](#) *Phys. Stat. Sol. RRL* vol 15, 10, 2100409
20. Jaime Segura-Ruiz *et al* (2021) [Spatially and Time-Resolved Carrier Dynamics in Core-Shell InGaN/GaN Multiple-Quantum Wells on GaN Wire](#) *Nano Lett.* vol 21, 22, 9494–9501

**List of conference proceedings:**

1. Anh-Luan Phan *et al* (2024) [Empirical tight-binding parameterizations for accurate heterostructure and alloy calculations](#) 2024 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD)
2. L. Leguay *et al* (2024) [Electronic structure of GaSb/AlGaSb quantum dots formed by filling droplet-etched nanoholes](#) Proceedings Volume 12880, Physics and Simulation of Optoelectronic Devices XXXII
3. Gizem Acar *et al* (2024) [Towards GaSb/GaAs quantum-ring single-photon LEDs: recent progress and prospects](#) Proceedings Volume 12906, Light-Emitting Devices, Materials, and Applications XXVIII;
4. Anh-Luan Phan *et al* (2023) [Empirical tight-binding simulations for nonuniform disordered GaAsSb alloy](#) 2023 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD)
5. Matthias Auf der Maur *et al* (2023) [Multiscale Approaches for Electronic Device Simulation](#) 2023 IEEE Nanotechnology Materials and Devices Conference (NMDC)
6. L. Leguay *et al* (2023) [Optimization of UV LED design using evolutionary algorithms](#) 2023 IEEE Photonics Conference (IPC)

Out of them, 19 publications are linked already to the project in the [QUANTIMONY Open Aire repository](#). Seven publications were not Open Access at the time of preparing this deliverable. The authors have uploaded a postprint version to Zenodo or their institutional repository, and shall be also available soon in Open Aire. Below are the green access links.

- Anh-Luan Phan *et al* (2024) [Empirical tight-binding parameterizations for accurate heterostructure and alloy calculations](#) 2024 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD)
- Leguay *et al* (2024) [Electronic structure of GaSb/AlGaSb quantum dots formed by filling droplet-etched nanoholes](#) Proceedings Volume 12880, Physics and Simulation of Optoelectronic Devices XXXII.
- Acar *et al.* (2024) [Towards GaSb/GaAs quantum-ring single-photon LEDs: recent progress and prospects](#). Proceedings Volume 12906, Light-Emitting Devices, Materials, and Applications XXVIII; 1290609
- Anh-Luan Phan *et al* (2023) [Empirical tight-binding simulations for nonuniform disordered GaAsSb alloy](#) 2023 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD)
- Matthias Auf der Maur *et al* (2023) [Multiscale Approaches for Electronic Device Simulation](#) 2023 IEEE Nanotechnology Materials and Devices Conference (NMDC)
- Leguay *et al.* (2023) [Optimization of UV LED design using evolutionary algorithms](#) 2023. IEEE Photonics Conference (IPC).
- J. Segura *et al* (2021) [“Spatially and Time-Resolved Carrier Dynamics in Core–Shell InGaN/GaN Multiple-Quantum Wells on GaN Wire”](#) Nano Lett. 2021, 21, 22, 9494–9501

**Participation of ESRs:**

By November 2024, ESRs have participated in sixteen publications. Eleven publications feature the ESRs as first authors: six are Journal Articles and five are Conference Proceedings. ESRs participate additionally in five publications as non-leading authors.

Dissemination activities							
Journal	Article w/o		Conf/Worksh.		Book/mono		
	ESR	J.A. w ESR	Proceedings	Thesis Diss.	Book Chapter graph	Total /node	
CSIC1	4					4	
CSIC2	3	1				4	
UPM	1	2				3	
ULANC	1		1			2	
UOW			1			1	
TUE			1	2		4	
TUB	1	3				5	
UWUE	2	3				5	
UNITOV		2	3			5	
AIXTRON							
IQE							
nextnano		3				3	
<b>TOTAL/ act.</b>	<b>12</b>	<b>13</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0 TOTAL</b>	<b>31</b>

Table 1- Dissemination activities

The dissemination activities shown in Table 1 include publications produced through research collaborations. Table 2 below reflects the research links established between beneficiaries and between beneficiaries and partner organizations in terms of joint dissemination. Each column shows: in yellow, the total number of publications of the beneficiary, and in green the joint publications of the beneficiary with other consortium members. Eleven of the publications reported are joint authorship between at least two consortium organizations.

Joint Journal Articles & Proceedings												
	CSIC1	CSIC2	UPM	ULANC	UOW	TUE	TUB	UWUE	UNITOV	AIXTRON	IQE	nextnano
CSIC1	4	1										
CSIC2	1	4										
UPM			3									
ULANC				2		1	1					
UOW												
TUE				1		1						
TUB				1			5					
UWUE								5				3
UNITOV									5			
AIXTRON												
IQE												
nextnano								3				3
Braker												
nanoplus								4				3
LMA												
Tiberlab									2			
QuantCAD												
Fluxim												
Max IV												
ESRF	1	3										
NSRRC												
Ucardiff												
UCA			2									
UFSCAR	1							2				
nextnanoLab								2				
TUM												
RWTH												

Table 2- Nodes of collaboration for joint publications

In order to maximize the exposure of our consortium's publications, we use OpenAire, Quantimony's website page and Quantimony's X account. Please see the social media report in the next section. Full details on these publications can be found on Annex 1.

## 2. Public Deliverables

We have published 11 public project Deliverables:

- D2.4 Periodic Training Activities Report (1/3)
- D2.5 Periodic Training Activities Report (2/3)
- D.2.6 Periodic Training Activities Report (3/3)
- D2.7. The Final AAB and SB Head review about the QUANTIMONY training
- D7.1. Quantimony internet website and social networks
- D7.5 Periodic Dissemination and Communication activities report (1/3)
- D7.6 Periodic Dissemination and Communication Activities report (2/3)
- D7.7. Periodic Dissemination and Communication Activities report (3/3)
- D7.8. Industry & Career Day Report (1/2)
- D7.9. Industry & Career Day Report (2/2)
- D7.10. International Workshop on Quantum Antimonides Research and Upscaling - IQARUS Report
- D7.11. The Final workshop Report



Figure 1- Dissemination section of the website

These, as well as all dissemination outputs are accessible in the Dissemination section of the website.

### Public deliverables in preparation:

- As of November, 2024, three public deliverables are in preparation. These are the final reports summarizing specific work done in the scientific work packages. They will be uploaded to the website once they have been submitted to the F&T portal, before the end of 2024.
  - D3.9 Review of growth and fabrication of III-Sb quantum materials and devices
  - D4.7 Review of structural and functional properties of III -Sb quantum materials and devices
  - D5.7 Review of electronic band structure modelling of III-Sb quantum semiconductors

## Communication & Outreach Activities

### 1. Quantimony website activities

The Quantimony website is public since M7 (may 2021) (<https://quantimony.eu/>). It contains all important information about the consortium, the research teams, consortium events, the project objectives and serves as a repository for the networks dissemination and communication outputs, as well as the ESR blogs.

#### Website activities for the whole period (M7-M46):

- 5 News Posts, 4 Press Releases & 12 Network Events.
- 25 scientific publications listed in the dissemination section.
- 7 Public deliverables uploaded
- 14 ESR blog editor access enabled and 9 blogs started
- Consortium and project information published.
- Banner section enabled on the home page for important news

PAGE TITLE AND SCREEN CLASS	VIEWS
Quantimony · Training network on a...	3.9K
People · Quantimony	1.6K
Project · Quantimony	817
· Quantimony	798
The Consortium · Quantimony	648
News & Events · Quantimony	613
Dissemination · Quantimony	370

Figure 2- Views per sections or screens

Google Analytics shows that we have acquired 3,900 visitors and 5,850 views. The average session spent on the website is 2.30 minutes and the pages/sections most visited are the Home page, the “People” section and “Project” section, which present the network and the eleven research teams, and the description of the QUANTIMONY MSCA project. New users access the website mainly through direct engine search and organic search (Fig 3), although those accessing from referral or from social media have much higher engagement times (7 minutes per session) than those accessing through direct search.

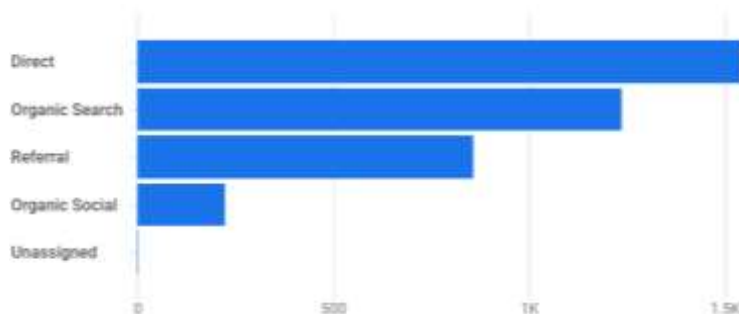


Figure 3- New users per entry channel

These new users come from China, the US, the UK, Spain and Germany.

The full Google Analytics report can be found in Annex V



COUNTRY	NEW USERS
China	515
United States	505
United Kingdom	471
Spain	349
Germany	345
Netherlands	140
France	135

Figure 4- active users per country of origin

## 2. Social Media outlets

- **YouTube Channel:**

We have a **YouTube channel** “quantimonyTV” active since **M11** with private content consisting on guest and ESR presentations from two of our training events:

- 14 ESR presentations from the 1<sup>st</sup> ESR Checkpoint (UWUE, Dec 2022)
- 3 guest presentations from III Sb Annual Workshop presentations (UWUE, Dec 2022)
- 14 ESR presentations from the 1st Annual AAB meeting (ULANC, April 2022)
- 3 guest presentations from the 1st Annual AAB meeting (ULANC, April 2022)
- 14 ESR presentations from the 2<sup>nd</sup> ESR Checkpoint (TUE, October 2022)
- 4 guest presentations from the second III Sb Workshop (TUE, October 2022)
- 14 ESR presentations from the 2<sup>nd</sup> Annual AAB Meeting (ULANC, April 2023)
- 2 guest presentations from the 2<sup>nd</sup> Annual AAB Meeting (ULANC, April 2023)
- 14 ESR presentations from the 3<sup>rd</sup> ESR Checkpoint (UNITOV, October, 2023)



Figure 5- view of YouTube channel

- **Twitter:**

Our **Twitter** account (@quantimony) is active since **M1**. Until present we have achieved:

- 72 followers
- 93 publications
- 133 following

Our maximum engagement achieved has been 2.4K impressions (60 per day) for posts on the consortium’s events, mainly the Winter School at TUB in February-March 2023 and the IQARUS event in July 2024. The average engagement for popular tweets is of 11.2%, although the most popular tweets reach 16.5% to 30% engagement rates. Our top profile visits have been 1.7K monthly visits from posts about the hiring process and MSCA information.

Our most popular tweets, which relate to maximum profile visits or high engagement figures can be classified in the following content types:

- Project hiring process
- MSCA information
- Woman in science Day with link to dissemination material. These type of tweet redirects a good amount of traffic to our dissemination section of the website and to the scientific articles linked.
- Network Event highlights & invited talks info
- Mentions to companies such as COMSOL or ULTRARAM (**high engagement**).

The per-month Twitter analytics report until spring 2023 can be found in Annex VI. Since January 2024, Twitter Analytics turned into a paid service exclusive for Premium X users. Therefore, Annex VI only shows the analysis of our account's performance until May, 2023.

### 3. Organisation of communication and outreach activities

The below summary table shows the consortium's production and organisation of communication and outreach activities. On this reporting period, the network has organised/released. Details on these activities can be found in Annex II.

- **6 Press Releases**, released by beneficiaries (CSIC, AIXTRON, UNITOV, IQE & ULANC) and shared on our social networks and the Outreach section of the website.
- **3 outreach activities**, organised by beneficiaries (ULANC and UPM)
- **1 external conference**, organized by UWUE
- **1 flyer** on the beneficiary's team's activities (ULANC)
- **2 non-scientific publications**; one in a special issue of the CSIC Investiga magazine and another in the Japanese journal Vacuum & Surface Science.
- **1 website and 1 social media** channel for the project
- **82 videos** created for the private YouTube channel of the consortium (65 of ESRs).
- **1 consortium social media publication** (IQE's LinkedIn).

		Outreach materials/org communication events according to DPE													
		CSIC1	CSIC2	UPM	ULANC	UOW	TUE	TUB	UWUE	UNITOV	AIXTRON	IQE	nextnano	Total/cat	
Release of outputs	Press Release	2			1					1	1	1		6	
	Flyer				1										
	Comm Campaign non-scientific publication	1											1	2	
	social media	1										1		2	
	website	1												1	
	video	17	4	5	10	5	10	5	5	5	5	5	5	81	
Org of activities	conference								1						
	exhibition														
	outreach comm activity			1	2									3	
	Total/node	22	4	6	14	5	10	5	6	6	6	7	6	TOTAL	97

Table 3- Organisation of communication/ outreach activities

### 4. Participation in communication and outreach activities

The summary table below shows the reported 86 communication and outreach activities in which the consortium ESRs and PIs have participated.

By October 2024, ESR have participated in the following communication activities:

- 20 poster presentation at conferences
- 40 oral presentations at conferences or workshops (4 invited talk, and 36 oral participations)

		Participation in Communication Activities													
		CSIC1	CSIC2	UPM	ULANC	UOW	TUE	TUB	UWUE	UNITOV	AIXTRON	IQE	nextnano	TOTAL/ act.	
Conference (invited)		1								3				4	
Conference (oral)		3	1		14	1	6	4	4		1		2	36	
Conference (poster)		2		1	2	3	1	4	1		2	1	3	20	
trade fair														0	
Brokerage event														0	
Joint act with other EU projects														0	
	Total /node	6	1	1	16	4	7	8	5	3	3	1	5	TOTAL	60

Table 4- Participation in communication activities

As for outreach activities, ESRs and PIs have participated in 26 outreach activities:

- 9 blog entries on the blogs on the Quantimony website,
- 5 participations in European Researchers Night,
- 5 participations at Open Days, Open labs and demos at the recruitment institution
- 4 participations in mentoring sessions and informal chats meant for science students
- 3 other participations in outreach activities such as interviews or creation of outreach materials as a result of trainings

	Participation in Outreach Activities												TOTAL/ act.
	CSIC1	CSIC2	UPM	ULANC	UOW	TUE	TUB	UWUE	UNITOV	AIXTRON	IQE	nextnano	
ESR blog		1	3	1			1	1	1		1		9
European Researchers Night			1	1	1			2					5
Open Days at recruitment institution				4	1								5
Mentorships for science students				1	1							2	4
Other	2					1							3
<b>Total /node</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>7</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>TOTAL 26</b>

Table 5 – Participation in different types of outreach activities

## Annex I. Dissemination Activities

Journal Articles							
No	Institutions participating	partner organisation	DOI	Title	First Author	Open Access	Repository link
1	UPM;		10.1016/j.solmat.2023.112632	Gallium nanoparticles as antireflection structures on III-V solar cells	S. Catalán-Gómez	Yes, in Green Open Access (provide repository link below)	<a href="https://oa.upm.es/78149">https://oa.upm.es/78149</a>
2	UWUE; nextnano;	nanoplus;	10.1364/OME.536801	Comparison between InAs-based and GaSb-based interband cascade lasers with hybrid superlattice plasmon-enhanced claddings	Borislav Petrović	Yes, in Golden Open Access	
3	UNITOV;		10.1088/2632-2153/ad4510	Machine learned environment-dependent corrections for a sp3d5s* empirical tight-binding basis	Daniele Soccodato	Yes, in Golden Open Access	
4	UNITOV;		10.1088/1402-4896/ad4f65	Empirical tight-binding method for large-supercell simulations of disordered semiconductor alloys	Anh-Luan Phan	Yes, in Golden Open Access	
5	UWUE; nextnano;	nanoplus;nextnano Lab ;	10.1116/6.0003584	5.0 μm emitting interband cascade lasers with superlattice and bulk AlGaAsSb claddings	Borislav Petrović	Yes, in Green Open Access (provide repository link below)	<a href="https://arxiv.org/pdf/2402.19165">https://arxiv.org/pdf/2402.19165</a>
6	UWUE; nextnano;		10.1063/5.0217972	GaSb-based interband cascade laser with hybrid superlattice plasmon-enhanced claddings	Borislav Petrović	Yes, in Green Open Access (provide repository link below)	<a href="https://arxiv.org/pdf/2401.16816v3">https://arxiv.org/pdf/2401.16816v3</a>
7	TUB;		10.1088/2633-4356/ad207e	Unveiling the electronic structure of GaSb/AlGaSb quantum dots emitting in the third telecom window	Lucie Leguay	Yes, in Golden Open Access	
8	CSIC-IMN		<a href="https://doi.org/10.1103/physrevapplied.19.034054">10.1103/physrevapplied.19.034054</a>	Inverse Design of a Hybrid Mie-Tamm Photonic Structure as a Highly Directional Gigahertz Single-Photon Source	J. M. Llorens	Yes, in Green Open Access (provide repository link below)	
9	ULANC;TUE;		<a href="https://doi.org/10.1116/6.0003584">https://doi.org/10.1116/6.0003584</a>	Defect formation in InGaAs/AlSb/InAs memory devices	Aurelia Trevisan	Yes, in Golden Open Access	

10	CSIC-ICMM	ESRF;	<a href="https://doi.org/10.1002/adpr.202300063">https://doi.org/10.1002/adpr.202300063</a>	Interplay between Crystal Structure and Optical Response in Plateau-Rayleigh Zn <sub>2</sub> GeO <sub>4</sub> /SnO <sub>2</sub> Heterostructures	Dolado, Jaime	Yes, in Green Open Access (provide repository link below)	<a href="https://csic-primo.hosted.exlibrisgroup.com/primo-explore/openurl?institution=CSIC&amp;vid=34CSIC_VU1&amp;url_ver=Z39.88-2004&amp;rft_id=info:doi%2F10.1002%2Fadpr.202300063&amp;rft_id=info:sid%2FWiley&amp;rft.genre=article&amp;rft.date=2023&amp;rft.title=Interplay%20between%20Crystal%20Structure%20and%20Optical%20Response%20in%20Plateau%E2%80%93Rayleigh%20Zn2GeO4%2FSnO2%20Heterostructures&amp;rft.title=Advanced%20Photonics%20Research&amp;rft.title=Advanced%20Photonics%20Research&amp;rft.volume=4&amp;rft.issue=8&amp;rft.issn=2699-9293">https://csic-primo.hosted.exlibrisgroup.com/primo-explore/openurl?institution=CSIC&amp;vid=34CSIC_VU1&amp;url_ver=Z39.88-2004&amp;rft_id=info:doi%2F10.1002%2Fadpr.202300063&amp;rft_id=info:sid%2FWiley&amp;rft.genre=article&amp;rft.date=2023&amp;rft.title=Interplay%20between%20Crystal%20Structure%20and%20Optical%20Response%20in%20Plateau%E2%80%93Rayleigh%20Zn2GeO4%2FSnO2%20Heterostructures&amp;rft.title=Advanced%20Photonics%20Research&amp;rft.title=Advanced%20Photonics%20Research&amp;rft.volume=4&amp;rft.issue=8&amp;rft.issn=2699-9293</a>
11	UPM	UCA	<a href="https://doi.org/10.3390/ano13050798">https://doi.org/10.3390/ano13050798</a>	Identification of the Segregation Kinetics of Ultrathin GaAsSb/GaAs Films Using ALAs Markers	David Gonzalez	Yes, in Golden Open Access	
12	UPM;	UCA;	10.1016/j.apsusc.2022.154596	Growth interruption strategies for interface optimization in GaAsSb/GaAsN type-II superlattices	V. Braza	Yes, in Green Open Access (provide repository link below)	<a href="https://arxiv.org/abs/240">https://arxiv.org/abs/240</a>
13	TUB		<a href="https://doi.org/10.1038/s41377-021-00700-9">https://doi.org/10.1038/s41377-021-00700-9</a>	Modeling electronic and optical properties of III-V quantum dots—Selected recent developments	Mittelstädt, Alexander	Yes, in Green Open Access (provide repository link below)	

14	CSIC-IMN;	UFSCAR;	<a href="https://doi.org/10.1103/physrevb.105.045414">10.1103/physrevb.105.045414</a>	Spin-dependent analysis of homogeneous and inhomogeneous exciton decoherence in magnetic fields	V. Laurindo	Yes, in Green Open Access (provide repository link below)	
15	UWUE;	UFSCAR;nanoplus;	<a href="https://doi.org/10.3390/nano12061024">10.3390/nano12061024</a>	Resonant Tunneling Diodes: Mid-Infrared Sensing at Room Temperature	Florian Rothmayr	Yes, in Golden Open Access	
16	CSIC-IMN		<a href="http://dx.doi.org/10.1088/1367-2630/ac2bd6">http://dx.doi.org/10.1088/1367-2630/ac2bd6</a>	On the importance of antimony for temporal evolution of emission from self-assembled (InGa)(AsSb)/GaAs quantum dots on GaP(001)	P. Steindl	+	Yes, in Golden Open Access
17	UWUE	UFSCAR;	<a href="https://doi.org/10.1021/acs.jpcc.1c02173">10.1021/acs.jpcc.1c02173</a>	Optical Mapping of Nonequilibrium Charge Carriers	E. D. Guarin Castro	Yes, in Green Open Access (provide repository link below)	<a href="https://arxiv.org/abs/2303.03506">https://arxiv.org/abs/2303.03506</a>
18	CSIC-ICMM		<a href="https://doi.org/10.1016/j.solener.2021.05.052">10.1016/j.solener.2021.05.052</a>	Modelling of the efficiency of the photovoltaic modules: Grid-connected plants to the Cuban national electrical system	Yhosvany Soler-Castillo	Yes, in Golden Open Access	
19	CSIC-ICMM	ESRF;	<a href="https://doi.org/10.1002/pssr.202100409">10.1002/pssr.202100409</a>	Functional Modifications Induced via X-ray Nanopatterning in TiO2 Rutile Single Crystals	Andrea Alessio	Yes, in Golden Open Access	
20	CSIC-ICMM. CSIC-IMN	ESRF;	<a href="https://doi.org/10.1021/acs.nanolett.1c02760">10.1021/acs.nanolett.1c02760</a>	Spatially and Time-Resolved Carrier Dynamics in Core-Shell InGaN/GaN Multiple-Quantum Wells on GaN Wire	Jaime Segura-Ruiz	Yes, in Green Open Access (provide repository link below)	<a href="https://zenodo.org/records/13960545">https://zenodo.org/records/13960545</a>

Conference Proceedings							
No	Institutions participating	partner organisation	DOI	Title	First Author	Open Access	Repository link
1	TUB;		10.1117/12.3002300	Electronic structure of GaSb/AlGaSb quantum dots formed by filling droplet-etched nanoholes	L. Leguay	Yes, in Green Open Access (provide repository link below)	<a href="https://zenodo.org/records/13939662">https://zenodo.org/records/13939662</a>
2	ULANC;TUB;		<a href="https://doi.org/10.1117/12.3002881">https://doi.org/10.1117/12.3002881</a>	Towards GaSb/GaAs quantum-ring single-photon LEDs: recent progress and prospects	Gizem Acar	Yes, in Green Open Access (provide repository link below)	<a href="https://zenodo.org/records/13939402">https://zenodo.org/records/13939402</a>
3	UNITOV;	TiberLab;	10.1109/NUSOD59562.2023.10273494	Empirical tight-binding simulations for nonuniform disordered GaAsSb alloy	Anh-Luan Phan	Yes, in Green Open Access (provide repository link below)	<a href="https://hdl.handle.net/2108/342523">https://hdl.handle.net/2108/342523</a>
4	UNITOV;	TiberLab;	10.1109/NMDC57951.2023.10343710	Multiscale Approaches for Electronic Device Simulation	Matthias Auf der Maur	Yes, in Green Open Access (provide repository link below)	<a href="https://hdl.handle.net/2108/361604">https://hdl.handle.net/2108/361604</a>
5	TUB;		10.1109/IPC57732.2023.10360557	Optimization of UV LED design using evolutionary algorithms	Lucie Leguay	Yes, in Green Open Access (provide repository link below)	<a href="https://zenodo.org/records/13939402">https://zenodo.org/records/13939402</a>
6	UNITOV;		10.1109/NUSOD62083.2024.10723707	Empirical Tight-Binding Parameterizations for Accurate Heterostructure and Alloy Calculations	Anh-Luan Phan	Yes, in Green Open Access (provide repository link below)	<a href="https://art.torvergata.it/handle/2108/389010">https://art.torvergata.it/handle/2108/389010</a>

## Annex II. Organisation of Communication/ outreach activities

Institution	What are you reporting	Type of output	Description	Link to the output	impact	public impacted
UNITOV	release of an outreach/communication output	Press release	The press release circulated by the coordinator has been translated to Italian and personalized, and released on the news web page of University of Rome Tor Vergata.	<a href="http://web.uniroma2.it/it/contenuto/semiconduttori_e_tecnologia_quantistica__dottorandi_da_tutto_il_mondo_al_lavoro_con_rquantinomyr_per_lo_sviluppo_di_nuo">http://web.uniroma2.it/it/contenuto/semiconduttori_e_tecnologia_quantistica__dottorandi_da_tutto_il_mondo_al_lavoro_con_rquantinomyr_per_lo_sviluppo_di_nuo</a>	?	General public;Scientific Community (Higher Education, Research);
ULANC	release of an outreach/communication output	Lancaster University	I did the VCSEL demo session at Lancaster University Physics Department for the University Open Day as outreach activity.	There is no link.	I had an good experience to show a project related to my project to the students and their families.	General public;Scientific Community (Higher Education, Research);
CSIC-IMN;	release of an outreach/communication output	Press release	CSIC as network coordinator of the network, description of the training, and relevance of the scientific work of the network	<a href="https://www.csic.es/es/actualidad-del-csic/el-csic-coordina-una-red-internacional-de-investigacion-en-semiconductores">https://www.csic.es/es/actualidad-del-csic/el-csic-coordina-una-red-internacional-de-investigacion-en-semiconductores</a>	NO	General public;
AIXTRON	release of an outreach/communication output	Press release	Role of AIXTRON in the training network and relevance of this.	<a href="https://www.aixtron.com/en/press/press-releases/AIXTRON%20supports%20young%20academics%20in%20researching%20of%20future%20semiconductor%20quantum%20components%20_n1786">https://www.aixtron.com/en/press/press-releases/AIXTRON%20supports%20young%20academics%20in%20researching%20of%20future%20semiconductor%20quantum%20components%20_n1786</a>	-	General public;Scientific Community (Higher Education, Research);Media ;
CSIC IMN	release of an outreach/communication output	social media		no	1700 profile views	General public;Scientific Community (Higher Education, Research);
CSIC-IMN	release of an outreach/communication output	website		no	no	General public;Scientific Community (Higher Education, Research);
ULANC	release of an outreach/communication output	Press release	Press release featuring role of ULANC in the ITN; training and scientific relevance.	<a href="https://www.lancaster.ac.uk/news/lancaster-to-train-early-stage-researchers-in-semiconductor-sciences">https://www.lancaster.ac.uk/news/lancaster-to-train-early-stage-researchers-in-semiconductor-sciences</a>	no	public;Scientific Community (Higher Education, Research);Media ;
IQE	release of an outreach/communication output	Press release	Publicity of QUANTIMONY Project, for IQE and its partners within the Industrialization work package.	<a href="https://www.linkedin.com/posts/iqe_semiconductors-compoundsemiconductors-quantimony-activity-6859414874376695809-r69I">https://www.linkedin.com/posts/iqe_semiconductors-compoundsemiconductors-quantimony-activity-6859414874376695809-r69I</a>	59 commented	Scientific Community (Higher Education, Research);Customers ;Investors ;General public;

IMN_CSIC	release of an outreach/communication output	Article on a H2020 special issue	CSIC INVESTIGA H2020 ISSUE - article on our network & role of antimonide based semic	<a href="https://doi.org/10.20350/digitalCSIC/14696">https://doi.org/10.20350/digitalCSIC/14696</a>	no	Scientific Community (Higher Education, Research);
ULANC	release of an outreach/communication output	Flyer	I was assigned to Lancaster University Physics Department Open Day. I explained what VCSEL is to those who came and made a VCSEL demo.	NA	NA	General public;
nextnano	release of an outreach/communication output	Non-scientific and non-peer-reviewed publication (popularised publication)	I published an article describing my professional career as an intern and an ESR in the EU to the Japanese academic journal 'Vacuum and Surface Science'. I illustrated the Marie-Curie ITN and the scientific activities of the Quantimony consortium.	<a href="https://www.jstage.jst.go.jp/article/vss/66/4/66_20181053/pdf">https://www.jstage.jst.go.jp/article/vss/66/4/66_20181053/pdf</a>	2300 copies of the volume are printed for subscribers. It is also available online in the above link.	Scientific Community (Higher Education, Research); Industry; Customers ;
UWUE	organization of an event	Organisation of a Workshop	Member of welcoming committee, taking care of drinks/food, tables, tents, posters	<a href="https://www2.uni-wuerzburg.de/inow2023/">https://www2.uni-wuerzburg.de/inow2023/</a>		100 Scientific Community (Higher Education, Research);
UPM	organization of an event	Organisation of a communication/outreach activity	Madrid Science Week. Talk on sustainable, efficient energy devices, included in the European green pact, Kahoot on the talk and interactive workshop with demonstrators of supercapacitors and solar cells.	<a href="https://www.upm.es/Investigacion/innovacion/OTRI/UnidadCulturalCientifica/SemanaCiencia/Articulos?fmt=detail&amp;prefmt=articulo&amp;id=92d3b1740b2e9810VgnVCM10000009c7648a____">https://www.upm.es/Investigacion/innovacion/OTRI/UnidadCulturalCientifica/SemanaCiencia/Articulos?fmt=detail&amp;prefmt=articulo&amp;id=92d3b1740b2e9810VgnVCM10000009c7648a____</a>		100 General public;
ULANC;	organization of an event	Organisation of a	Volunteer to help the organisation of Pint of Science which is an annual festival that happens over three evenings in May simultaneously in multiple cities around the globe. Researchers share and explain their latest findings to the public in the comfort of a pub, café, community hall, outdoor space or public venue.	<a href="https://pintofscience.co.uk/">https://pintofscience.co.uk/</a>		50 General public;

### Annex III. Participation in Communication activities

Name	Institution	Type of event	Type of attendance	Quantimony or external event	Name of activity	Date and duration of the activity	Description	Link	attendants to the event	type of public
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	Semiconductor and Integrated OptoElectronics (SIOE) Conference	12/04/2022-3days	I gave a talk about my project. The title was "Telecoms-wavelength LEDs: Combining GaSb quantum rings and Bragg (anti) reflectors for enhanced emission".	<a href="https://www.cardiff.ac.uk/conferences/sioe-conference">https://www.cardiff.ac.uk/conferences/sioe-conference</a>	200	Scientific Community ;
Jose Llorens	CSIC-IMN	Participation to a workshop	Oral	External activity	14th Annual Meeting Photonic Devices (AMPD)	28/04/2022 - 2	The Zuse Institut Berlin gathers every year experts and colleagues on advanced topics related to photonic devices. We presented our latest results on the design of a microcavity to enhance the emission of single-photon sources. The application is in the field of quantum photonic technologies.	<a href="https://www.zib.de/workshop-photonic-devices/">https://www.zib.de/workshop-photonic-devices/</a>	70	Scientific Community ;Industry;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	DGKK/DEMBE	16.08.2022-3 days	Oral presentation of "InAsSb/GaSb/InAsSb W-shaped quantum wells for Interband Cascade Lasers"	<a href="https://www.uni-bremen.de/ifp/dgkk-dembe-2022">https://www.uni-bremen.de/ifp/dgkk-dembe-2022</a>	120	Scientific Community ;Industry;
Xiuxin Xia	ULANC	Participation to a conference	Oral	External activity	UK Semiconductor Conference 2022	6th July to 7th July -2 days	I was selected for a oral presentation regarding ultraram scaling work progress at electronic device symposium. I took part in the conference and did a 15 minutes presentation and 3minutes for question asking.	<a href="https://uksemiconductors.com">https://uksemiconductors.com</a>	500	Industry;Scientific Community ;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	mirsens-5th international workshop on opportunities and challenges in mid-infrared laser based gas sensing	07/04/22-07/06/22 - 3 days	Participation-given talk: "InAsSb/GaSb/InAsSb W-shaped Quantum Wells for Interband Cascade Laser"	<a href="http://mirsensconference.org">http://mirsensconference.org</a>	100	Scientific Community ;Industry;
Takuma Sato	nextnano GmbH	Participation to a workshop	Poster	External activity	5th International workshop on opportunities and challenges in mid-infrared laser-based gas sensing	July/04-06, 2022 - 3 days	Presented our ongoing software development and collaboration with UWUE in the form of a poster. Networking with PhD students and professors specialized in the mid-infrared light source and photodetectors.	<a href="http://mirsensconference.org/">http://mirsensconference.org/</a>	50	Scientific Community ;Industry;
Takuma Sato	nextnano GmbH	Participation to a conference	Poster	External activity	EPS Forum 2022	June 2-3, 2022	Talks from technology industry, Nobel Laureates in Physics, Presentation of my research and exchange with other Ph.D. students in physics in the Europe	<a href="https://epsforum.org/">https://epsforum.org/</a>	300	Scientific Community ;Industry;Civil Society;

Giulio Barbieri	CSIC-IMN	Participation to a conference	Oral	External activity	IEEE 22nd International Conference of Nanotechnology	4th July 2022 - 5 days	Presented an abstract submitted to the IEEE 22nd International Conference of Nanotechnology.	<a href="https://2022.ieeenano.org/">https://2022.ieeenano.org/</a>	400	Scientific Community ;
Takuma Sato	nextnano GmbH	Participation to a conference	Poster	External activity	International Quantum Cascade Lasers School & Workshop 2022	23-28 of August, 2022	Presented the ongoing Quantimony project as a poster	<a href="https://iqclsw.phys.ethz.ch/">https://iqclsw.phys.ethz.ch/</a>	100	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Oral	External activity	DPG Meeting (Regensburg)	05-09-22 3d	short talk	-	-	Scientific Community ;
Takuma Sato	nextnano GmbH	Participation to a conference	Oral	External activity	The 83th JSAP Autumn Meeting 2022	20-23, September 2022	Present the ongoing research project in an oral session and discuss with participants	<a href="https://meeting.jsap.or.jp/english">https://meeting.jsap.or.jp/english</a>	6000	Scientific Community ;Industry;
Benito Alen	IMN CSIC	Participation to a conference	Oral	External activity	IEEE 22nd International Conference of Nanotechnology	4th July 2022 - 5 days	invited speaker	<a href="https://2022.ieeenano.org/">https://2022.ieeenano.org/</a>	400	Scientific Community ;Industry;
Francisco Alvarado	UOW	Participation to a conf	Poster	External activity	RMS - Microscopy	3-04-23 - 4 days	presented a poster	<a href="https://www.rms.org.uk/rms-event-200">https://www.rms.org.uk/rms-event-200</a>	200	Scientific Community ;
Takuma Sato	nextnano GmbH	Participation to a conference	Oral	External activity	International Workshop on Computational Nanotechnology	June 12-16, 2023	Presented the ongoing project in an oral session on quantum electron transport. Reported how we set up the Green's function basis from the 8-band k.p solutions.	<a href="https://iwcn2023.uab.es/index.html">https://iwcn2023.uab.es/index.html</a>	130	Scientific Community ;Industry;
Borislav Petrovic	UWUE	Participation to a conference	Poster	External activity	International Nano-Optoelectronics Workshop	07/16/23 - 10 days	Presenting a poster on Advantages of AlGaAsSb claddings in Interband Cascade Lasers.	<a href="https://www2.uni-wuerzburg.de/inow2023/">https://www2.uni-wuerzburg.de/inow2023/</a>	100	Scientific Community ;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	Photonica 2023	08/28/23 - 5 days	Gave oral presentation "Interband cascade lasers: Advantages of bulk AlGaAsSb claddings"	<a href="http://www.photonica.ac.rs/">http://www.photonica.ac.rs/</a>	100	Scientific Community ;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	Yucomat 2023	09/03/23 - 6 days	Gave oral presentation "Contrasting bulk to superlattice claddings in interband cascade lasers"	<a href="https://www.mrs-serbia.org.rs/index.php/yucomat/yucomat-2023">https://www.mrs-serbia.org.rs/index.php/yucomat/yucomat-2023</a>	100	Scientific Community ;
Giulio Barbieri	CSIC-IMN	Participation to a conference	Oral	External activity	UK Semiconductors 2023	12/07/2023 - 2 Days	12 min presentation by the title: Linking structural, optical, and magneto-optical properties of InAsSb/GaAs quantum dots through genetic optimization algorithms	<a href="https://uksemiconductors.com/?page_id=2356">https://uksemiconductors.com/?page_id=2356</a>	150	Scientific Community ;Industry;

Takuma Sato	nextnano GmbH	Participation to a conference	Poster	External activity	International Quantum Cascade Lasers School & Workshop 2022	23-28 of August, 2022	Presented the ongoing Quantimony project as a poster	<a href="https://iqclsw.phys.ethz.ch/">https://iqclsw.phys.ethz.ch/</a>	100	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Oral	External activity	DPG Meeting (Regensburg)	05-09-22 3d	short talk	-	-	Scientific Community ;
Takuma Sato	nextnano GmbH	Participation to a conference	Oral	External activity	The 83th JSAP Autumn Meeting 2022	20-23, September 2022	Present the ongoing research project in an oral session and discuss with participants	<a href="https://meeting.jsap.or.jp/english">https://meeting.jsap.or.jp/english</a>	6000	Scientific Community ;Industry;
Benito Alen	IMN CSIC	Participation to a conference	Oral	External activity	IEEE 22nd International Conference of Nanotechnology	4th July 2022 - 5 days	invited speaker	<a href="https://2022.ieeenano.org/">https://2022.ieeenano.org/</a>	400	Scientific Community ;Industry;
Francisco Alvarado	UOW	Participation to a conf	Poster	External activity	RMS - Microscopy	3-04-23 - 4 days	presented a poster	<a href="https://www.rms.org.uk/rms-event">https://www.rms.org.uk/rms-event</a>	200	Scientific Community ;
Takuma Sato	nextnano GmbH	Participation to a conference	Oral	External activity	International Workshop on Computational Nanotechnology	June 12-16, 2023	Presented the ongoing project in an oral session on quantum electron transport. Reported how we set up the Green's function basis from the 8-band k.p solutions.	<a href="https://iwcn2023.uab.es/index.html">https://iwcn2023.uab.es/index.html</a>	130	Scientific Community ;Industry;
Borislav Petrovic	UWUE	Participation to a conference	Poster	External activity	International Nano-Optoelectronics Workshop	07/16/23 - 10 days	Presenting a poster on Advantages of AlGaAsSb claddings in Interband Cascade Lasers.	<a href="https://www2.uni-wuerzburg.de/inow2023/">https://www2.uni-wuerzburg.de/inow2023/</a>	100	Scientific Community ;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	Photonica 2023	08/28/23 - 5 days	Gave oral presentation "Interband cascade lasers: Advantages of bulk AlGaAsSb claddings"	<a href="http://www.photonica.ac.rs/">http://www.photonica.ac.rs/</a>	100	Scientific Community ;
Borislav Petrovic	UWUE	Participation to a conference	Oral	External activity	Yucomat 2023	09/03/23 - 6 days	Gave oral presentation "Contrasting bulk to superlattice claddings in interband cascade lasers"	<a href="https://www.mrs-serbia.org.rs/index.php/yucomat/yucomat-2023">https://www.mrs-serbia.org.rs/index.php/yucomat/yucomat-2023</a>	100	Scientific Community ;
Giulio Barbieri	CSIC-IMN	Participation to a conference	Oral	External activity	UK Semiconductors 2023	12/07/2023 - 2 Days	12 min presentation by the title: Linking structural, optical, and magneto-optical properties of InAsSb/GaAs quantum dots through genetic optimization algorithms	<a href="https://uksemiconductors.com/?page_id=2356">https://uksemiconductors.com/?page_id=2356</a>	150	Scientific Community ;Industry;
Giulio Barbieri	CSIC-IMN	Participation to a workshop	Poster	External activity	iNOW2023 (International Nano-Optoelectronics Workshop)	22/07/2023 - 6 days	Poster presentation, title: InAs/InP quantum dots grown by solid source MBE with emission at 1550nm	<a href="https://www2.uni-wuerzburg.de/inow2023/">https://www2.uni-wuerzburg.de/inow2023/</a>	80	Scientific Community ;

Lucie Leguay	TUB	Participation to a conference	Poster	External activity	Photonics West	27/01/24 - 6 days	Oral presentation about the electronic structure of GaSb/AlGaSb quantum dots formed by local droplet etching.	<a href="https://spie.org/conferences-and-exhibitions/photronics-west/program/conferences/opto#_=_">https://spie.org/conferences-and-exhibitions/photronics-west/program/conferences/opto#_=_</a>	3000	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Oral	External activity	IEEE Photonics Conference, Orlando, USA	12/11/23 - 5 days	Poster presentation on the Optimization of UV LED design using evolutionary algorithms.	<a href="https://ieeepc.org/">https://ieeepc.org/</a>	500	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Poster	External activity	FisMat conference, Milan, Italy	04/09/23 - 5 days	Poster presentation on the Optimization of UV LED design using evolutionary algorithms.	<a href="https://eventi.cnism.it/cmd30-fismat">https://eventi.cnism.it/cmd30-fismat</a>	1500	Scientific Community ;
Lucie Leguay	TUB	Participation to a conference	Poster	External activity	Photonica, Belgrade, Serbia	28/08/2023	Poster presentation on the optimization of UV LED design using evolutionary algorithms.	<a href="http://www.photonica.ac.rs/">http://www.photonica.ac.rs/</a>	300	Scientific Community ;
Lucie Leguay	TUB	Participation to a conference	Poster	External activity	DPG spring meeting, Dresden, Germany	26/03/23 - 5 days	Oral presentation on the theoretical study of GaSb/AlGaSb quantum dots.	<a href="https://skm23.dpg-tagungen.de/">https://skm23.dpg-tagungen.de/</a>	5000	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Oral	External activity	DPG meeting, Regensburg, Germany	04/09/22 - 5 days	Oral presentation on the theoretical study of GaSb/AlGaSb quantum dots.	<a href="https://regensburg22.dpg-tagungen.de/">https://regensburg22.dpg-tagungen.de/</a>	5000	Scientific Community ;Industry;
Lucie Leguay	TUB	Participation to a conference	Oral	External activity	12th International Conference on Quantum Dots	18/22/24 - 5 days	Poster on our characterization on GaSb/AlGaSb QDs grown by local droplet etching and emitting at 1.5um at cryogenic temperatures. In particular, we show the results of polarization resolved ensemble magnetoPL, supported by nextnano simulations of the system.	<a href="https://qd2024.de/">https://qd2024.de/</a>	150	Scientific Community ;
Giulio Barbieri	CSIC-IMN	Participation to a conference	Poster	External activity	UK Semiconductor Conference	07/08/2024 - 2 days	Give a poster presentation about LWIR InAs/GaSb T2SL simulation	<a href="https://www.nationalepitaxyfacility.co.uk/news-and-events/uk-semiconductors-conference-2024-2/">https://www.nationalepitaxyfacility.co.uk/news-and-events/uk-semiconductors-conference-2024-2/</a>	200	Scientific Community ;
Chen Liu	IQE plc	Participation to a conference	Poster	External activity	IEEE PVSC 2024	5	Poster presentation and attending workshops / talks	<a href="https://ieeepvsc.org/PVSC52/">https://ieeepvsc.org/PVSC52/</a>	1000	Scientific Community ;Industry;
Malte Schwarz	UPM	Participation to a conference	Poster	External activity	International Conference on the Physics of Semiconductors	28/07/2024-02/08/2024 - 6 days	Oral presentation on the work on Sb as an iso-electronic dopant in GaAs	<a href="https://uottawacpd.eventsair.com/QuickEventWebsitePortal/icps2024/info">https://uottawacpd.eventsair.com/QuickEventWebsitePortal/icps2024/info</a>	500	Scientific Community ;
Aurelia Trevisan	TUE	Participation to a conference	Oral	External activity	32nd International Materials Research Congress	18/08/2024 - 4 days	I gave an oral presentation about my research on ULTRARAM structures	<a href="https://www.mrs-mexico.org.mx/imrc2024/system/app_abstract-pdf.php?id_res=03403">https://www.mrs-mexico.org.mx/imrc2024/system/app_abstract-pdf.php?id_res=03403</a>	20	Scientific Community ;

Francisco Alvarado Cesar	UOW	Participation to a conference	Oral	External activity	Microscopy of Semi-Conducting Materials Conference 2023	03/04/2023 - 3 days	I presented my work in quantum rings that is a collaboration with ESR5 Gizem Acar	<a href="https://www.rms.org.uk/rms-event-calendar/2023-events/microscopy-of-semi-conducting-materials.html">https://www.rms.org.uk/rms-event-calendar/2023-events/microscopy-of-semi-conducting-materials.html</a>	20	Scientific Community ;
Francisco Alvarado Cesar	UOW	Participation to a conference	Poster	External activity	UK Semiconductors 2024	08/07/2024 - 2 days	I presented my work in advanced electron microscopy of ultramemories	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	30	Scientific Community ;
Francisco Alvarado Cesar	UOW	Participation to a conference	Poster	External activity	UK Semiconductors 2021	07/06/22-2 days	Oral presentation at the The UK Semiconductors Conferences which was established in 2006 and we are the UK's annual conference in Semiconductor Research.	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	1000	Scientific Community ;Industry;
Xiuxin Xia	ULANC	Participation to a conference	Oral	External activity	UK semiconductors 2022	07/06/22 2 days	Oral presentation at the The UK Semiconductors Conferences which was established in 2006 and we are the UK's annual conference in Semiconductor Research.	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	1000	Scientific Community ;Industry;
Xiuxin Xia	ULANC	Participation to a conference	Oral	External activity	UK Semiconductors 2023	07/12/23-2days	Oral presentation at UKS 2023. The UK Semiconductors Conferences was established in 2006 and are the UK's annual conference in Semiconductor Research.	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	1000	Scientific Community ;Industry;
Xiuxin Xia	ULANC	Participation to a conference	Oral	External activity	UK Semiconductors 2024	07/08/24-2days	Oral presentation at UKS 2023. The UK Semiconductors Conferences was established in 2006 and are the UK's annual conference in Semiconductor Research.	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	1000	Scientific Community ;Industry;
Xiuxin Xia	ULANC	Participation to a conference	Oral	External activity	WOCSDICE - EXMATEC 2023	05/22/23-3days	Oral presentation at WOCSDICE - EXMATEC 2023.	<a href="https://www.wocsdice-exmatec2023.eu/">https://www.wocsdice-exmatec2023.eu/</a>	500	Scientific Community ;Industry;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	The annual 36th Semiconductor Integrated OptoElectronics Conference (SIOE)	4/4/2023-2 days	I gave a talk titled "Cavity effects in type-II GaSb quantum ring devices at telecommunication	<a href="https://www.cardiff.ac.uk/conferences/sioe-conference#:~:text=The%20Semiconductor%20and%20Integrated">https://www.cardiff.ac.uk/conferences/sioe-conference#:~:text=The%20Semiconductor%20and%20Integrated</a>	300	Scientific Community ;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	The annual 37th Semiconductor Integrated OptoElectronics Conference (SIOE).	2/4/2024-3 days	I gave two talks are titled as "Novel GaSb Quantum Ring Light Emitting Diodes (QR-LED) with Distributed Bragg Transmitter (DBT) Operating at Telecommunication Wavelengths" and "Advances in Room-Temperature Single-Photon LEDs Using GaSb/GaAs Quantum Rings". They were collaboration works with Warwick University and TUE, respectively.	<a href="https://compoundsemiconductorhub.org/sioe-conference/">https://compoundsemiconductorhub.org/sioe-conference/</a>	300	Scientific Community ;

Gizem Acar	ULANC	Participation to a workshop	Oral	External activity	WOCSDICE-EXMATEC 2023	21/05/2023-5 days	I gave a talk about Enhancing the efficiency of type-II GaSb quantum ring devices at telecommunication	<a href="https://www.wocsdice-exmatec2023.eu/#:~:text=You%20are%20warmly%20welcome%20to%2046th%20Workshop">https://www.wocsdice-exmatec2023.eu/#:~:text=You%20are%20warmly%20welcome%20to%2046th%20Workshop</a>	200	Scientific Community ;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	The UK Semiconductor Conference 2023	12/07/2023- 2 days	I gave a talk on Exploring Cavity-Enhanced Emission from Type-II GaSb Quantum Ring Devices at Telecommunication Wavelengths as collaboration work with Warwick Uni.	<a href="https://uksemiconductors.com/?page_id=2356#:~:text=UK%20Semiconductors%202023.%2012th-13th%20July">https://uksemiconductors.com/?page_id=2356#:~:text=UK%20Semiconductors%202023.%2012th-13th%20July</a>	400	Scientific Community ;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	The UK Semiconductor Conference 2024	8/7/2024-2 days	I gave a talk on Advancing Quantum Photonics: Innovating Single-Photon LEDs with GaSb Quantum Rings	<a href="https://uksemiconductors.com/?page_id=2356#:~:text=UK%20Semiconductors%202023.%2012th-13th%20July">https://uksemiconductors.com/?page_id=2356#:~:text=UK%20Semiconductors%202023.%2012th-13th%20July</a>	400	Scientific Community ;
Aurelia Trevisan	TUE	Participation to a conference	Oral	External activity	Conference on the Physics and Chemistry of Surfaces and Interfaces	15/01/2023 to 19/01/2023 - 5 days	I presented my X-STM work on a ULTRARAM sample with both a short oral presentation and a poster	<a href="https://pcsi2023.avs.org/">https://pcsi2023.avs.org/</a>	100	Scientific Community ;
Aurelia Trevisan	TUE	Participation to a workshop	Oral	External activity	IQARUS	1st-3rd July 2024 - 3 days	I gave a talk on my work on my X-STM results on Sb-based material and I presented a poster on my work on GaAsGe	<a href="http://www.iqarus.org/home-conference/">http://www.iqarus.org/home-conference/</a>	50	Scientific Community ;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	SPIE Photonics West 2024 Conference	27/01/2024-5 days	I gave a talk on "Towards GaSb/GaAs quantum-ring single-photon LEDs: recent progress	<a href="https://www.photonics21.org/events-workshops/spie-photonics-west-2024">https://www.photonics21.org/events-workshops/spie-photonics-west-2024</a>	1500	Scientific Community ;Industry;
Gizem Acar	ULANC	Participation to a conference	Poster	External activity	The 12th International Conference on Quantum Dots	18/03/2024-5 days	I did poster presentation on Type-II GaSb Quantum Rings for Telecom-Wavelength LEDs as collaboration work with Warwick University.	<a href="https://qd2024.de/">https://qd2024.de/</a>	500	Scientific Community ;
Manus Hayne	ULANC	Participation to a conference	Oral and poster	External activity	International Conference on the Physics of Semiconductors (ICPS), Ottawa	07/28/24 - 6 days	Talk 'Telecoms-Wavelengths Cavity-enhanced Devices Based on Type-II GaSb Quantum Rings', Sam Jones, Gizem Acar, Peter Hodgson and Manus Hayne.	<a href="https://uottawacpd.eventsair.com/QuickEventWebsitePortal/icps2024/info">https://uottawacpd.eventsair.com/QuickEventWebsitePortal/icps2024/info</a>	800	Scientific Community ;
Julian Zanon	TUE	Participation to a conference	Oral	External activity	March meeting (2023)	03/05/2023 - 6 days	I presented my work in a oral talk of 20 min.	<a href="https://ui.adsabs.harvard.edu/abs/2023APS..MARA28010Z/abstract">https://ui.adsabs.harvard.edu/abs/2023APS..MARA28010Z/abstract</a>	10000 (whole conference)	Scientific Community ;

Julian Zanon	TUE	Participation to a conference	Oral	External activity	March Meeting	03/03/2024 - 6 days	presentation on my research regarding the use of the effective mass approximation to model single impurities in III-V semiconductors. The presentation focused specifically on the quantum-mechanical treatment of manganese (Mn) impurities in III-V semiconductors, such as Mn in GaSb.	<a href="https://meetings.aps.org/Meeting/MAR24/Session/N03.6">https://meetings.aps.org/Meeting/MAR24/Session/N03.6</a>	10000	Scientific Community ;Industry;
Gizem Acar	ULANC	Participation to a conference	Oral	External activity	UK semiconductor Gordon Research Conference - Defects in Semiconductors	06/07/2022- 2 days	I gave a talk on Telecoms-wavelength GaSb quantum ring LEDs with a distributed Bragg transmitter (DBT) for enhanced emission.	<a href="https://uksemiconductors.com/">https://uksemiconductors.com/</a>	appr 300	Scientific Community ;
Julian Zanon	TUE	Participation to a conference	Poster	External activity	SPIE - Optics + Photonics communications	08/03/2024 - 7 days	I presented my work in a poster.	<a href="https://www.grc.org/defects-in-semiconductors-conference/2024/">https://www.grc.org/defects-in-semiconductors-conference/2024/</a>	100	Scientific Community ;
Julian Zanon	TUE	Participation to a conference	Oral	External activity	LEAPS meets Quantum Technology, Elba Island (Italy), 2022.	08/18/2024 - 5 days	I presented my work as an invited speaker (with an oral presentation of 30 minutes). We showed a new pathway to treat the manganese core fully quantum-mechanically	<a href="https://spie.org/conferences-and-exhibitions/optics-and-photonics/presenters">https://spie.org/conferences-and-exhibitions/optics-and-photonics/presenters</a>	3000	Scientific Community ;Industry;
Fernanda Malato	CSIC- ICMM	Participation to a conference	Oral	External activity	DGKK Workshop on Epitaxy of III-V Semiconductors in Bremen	15/05/22 - 5 days	Collaboration with ESRF	<a href="https://www.leaps-initiative.eu/event/leaps-meets-quantum-technology-conference/">https://www.leaps-initiative.eu/event/leaps-meets-quantum-technology-conference/</a>	150	Scientific Community ;
Hajrudin Husejini	AIXTRON SE	Participation to a workshop	Poster	External activity	DGKK Workshop on Epitaxy of III-V Semiconductors in Stuttgart	05/16/2022 - 2days	Oral presentation of my research.	<a href="https://www.uni-bremen.de/ftp/dgkk-2021">https://www.uni-bremen.de/ftp/dgkk-2021</a>	200-300	Scientific Community ;Industry;
Hajrudin Husejini	AIXTRON SE	Participation to a workshop	Poster	External activity	21st International Conference on Metal Organic Vapor Phase Epitaxy (ICMOVPE XXI)	11/27/2023 - 3 days	Oral presentation of my research.	<a href="https://www.dgkk.de">https://www.dgkk.de</a>	250-300	Scientific Community ;Industry;Media ;General public;
Hajrudin Husejini	AIXTRON SE	Participation to a conference	Poster	External activity	International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD)	05/12/2024 - 6 days	Poster presentation of my research.	<a href="https://mrs.org/ICMOVPE-2024">mrs.org/ICMOVPE-2024</a>	1000+	Scientific Community ;Industry;Media ;General public;
Matthias Auf der Mau	UNITOV	Participation to a conference	Invitee	External activity		09/23/2024 - 4 days	Invited presentation on the results of the newly implemented tight-binding scheme.	<a href="http://www.nusod.net">www.nusod.net</a>	70	Scientific Community ;

## Annex IV. Participation in outreach activities

Name and Last name	Institution	Type of event	Type of attendance	Quantimony or external event	Name of activity	Date and duration of the activity	Description	Link	attendants to the event
Xiuxin Xia	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Poster	External activity	2021 European Researchers' Night	9/24/2021 - 1 day	The European Researchers' Night is a Europe-wide public event, which displays the diversity of science and its impact on citizens' daily lives in fun, inspiring ways.	<a href="https://ec.europa.eu/research/mariecurieactions/event/2021-european-researchers-night">https://ec.europa.eu/research/mariecurieactions/event/2021-european-researchers-night</a>	N/A
Borislav Petrovic	UWUE	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	European Research Night-Intersections	09/24/21 - 2 days	Participating, giving short broad public oriented video about my research. Uploaded to Instagram page.	instagram.com/ern_intersections	70
Malte Schwarz	UPM	Contribution to ESR Blog							0
Giulio Barbieri	CSIC-IMN	Interview	Oral	External activity	Interview	29/03/22 - 1 day	Participated with supervisors and Quantimony PM to an interview with the CSIC press office for the digital CSIC press journal.	Upcoming	4
Benito Alén	CSIC-IMN	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	Interview for the CSIC H2020 magazine	29/03/22 1d	gave an interview for the H2020 magazine of the CSIC to talk about Quantimony and impact of its scientific and training activities	Not yet	5
Anh Luan Phan	UNITOV	ESR blog contribution							
Borislav Petrovic	UWUE	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	via website - Video+Text	External activity	European Researchers Night - Noc Istrazivaca 2022	09/30/22-10/01/22 - 2 days		<a href="https://www.nocistravivaca.rs/programi/2022/molekularna_epitaksija_-_narastanje_poluprovodni%C4%8Dkih_materijala">https://www.nocistravivaca.rs/programi/2022/molekularna_epitaksija_-_narastanje_poluprovodni%C4%8Dkih_materijala</a>	30
Malte Schwarz	UPM	ESR blog contribution							

Xiuxin Xia	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Poster	External activity	Lancaster University Open Day	15th October 2022 - 1 day	I presented two research work in our group in form of both presentation and poster and answered questions they are interested in.	<a href="https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/">https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/</a>	180	General public;
Gizem Acar	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	Lancaster University Open Day	17/09/2022-1 day	I participated in the event as a volunteer, showed a VCSEL demo, and explained what we are doing in our group	<a href="https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/">https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/</a>	100	General public;
Takuma Sato	nextnano GmbH	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Invitee	External activity	Online lecture by Alumni - Life of a researcher overseas	11/18/2022 - 1 day	Presented my international career so far, the Quantimony consortium, optoelectronics, acquisition of English and second foreign languages to Highschool students	<a href="https://meiwassh.studio.site/posts/Munich2022">https://meiwassh.studio.site/posts/Munich2022</a>	40	Other ;
Malte Schwarz	UPM	ESR blog contribution								
Malte Schwarz	UPM	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	European Researchers Night		High School classes 1 visited	<a href="https://eventos.upm.es/120080/detail/noche-europea-de-los-investigadores-upm-2024.html">https://eventos.upm.es/120080/detail/noche-europea-de-los-investigadores-upm-2024.html</a>	60	General public;
Francisco Alvarado Cesar	UOW	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	European Researchers Night 2022	30/09/2022 - 1 day	Organized activity for children and general public, show them about crystals and microscopes	<a href="https://2022.futuresnight.co.uk/do-try-this-at-home/grow-crystals-at-home/">https://2022.futuresnight.co.uk/do-try-this-at-home/grow-crystals-at-home/</a>	20	General public;
Francisco Alvarado Cesar	UOW	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Oral	External activity	Molecular Fireworks	26-11-2022 - 1 Day	We presented a gallery of micrographs to introduce people to scientific topics	<a href="https://warwick.ac.uk/wie/events/programme/molecular-fireworks/">https://warwick.ac.uk/wie/events/programme/molecular-fireworks/</a>	30	General public;

Xiuxin Xia	ULANC	ESR blog contribution								
Xiuxin Xia	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Poster	External activity	Lancaster University Science Week 2023	03/27/23-2 days	Poster presentation at Science Week in Lancaster University	<a href="https://www.lancaster.ac.uk/scitech/research/conferences/science-week/">https://www.lancaster.ac.uk/scitech/research/conferences/science-week/</a>	200	General public;Scientific Community ;
Xiuxin Xia	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Poster	External activity	Celebration of Science 2024	16/04/2024	Poster presentation at Celebration of Science 2024 in Lancaster University	<a href="https://www.lancaster.ac.uk/scitech/research/conferences/celebration-of-science-2024/">https://www.lancaster.ac.uk/scitech/research/conferences/celebration-of-science-2024/</a>	200	General public;Scientific Community ;
Xiuxin Xia	ULANC	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Demo and presentation	External activity	2024 UG open days	06/29/24, 07/13/24, 09/14/24, 3 days	Demo presentation and explaining research topics to UG students	<a href="https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/">https://www.lancaster.ac.uk/study/open-days/undergraduate-open-days/</a>	100	General public;
Julian Zanon	TUE	Participation to an outreach activity (i.e. European Researchers Night, Pint of Science, Science Week, 3MT, MSCA Ambassadors, Wornen and girls in science)	Attendance/networking	External activity	COMMunication (between) Physics And Society Summer School (COMPASSS)	08/22/2023 - 5 days	The 1st edition of COMPASSS: an event to help our development in communication skills through workshops, lectures, feedback and by helping our own outreach project .	<a href="https://www.linkedin.com/feed/update/urn:li:activity:7104118274715443200?utm_source=share&amp;utm_medium=member_desktop">https://www.linkedin.com/feed/update/urn:li:activity:7104118274715443200?utm_source=share&amp;utm_medium=member_desktop</a>	40	Scientific Community ;

## Annex VI. Twitter Analytics

May 2023 - 7 days so far...

TWEET HIGHLIGHTS

You haven't Tweeted this month... yet

People who Tweet consistently throughout the month get higher engagement over accounts with intermittent posting. Try posting a photo, people like photos.

Compose a Tweet now

No new followers in May

Grow your audience and deliver your content to more people on Twitter.

Learn more about increasing your followers



Top mention earned 9 engagements

Hajro @h\_husejini - Apr 28

On the 21st of April 2023, at @LancUniPhysics, during the @quantimony aab event, I presented #simulation results on the predicting growth rate of #antimonide based material for a #MOCVD #AIXTRON Planetary #Reactor

#modeling #semiconductor #nanotechnology #nanoscience #physics pic.twitter.com/VvJHtAZiX



1 3

Mar 2023 - 27 days so far...

TWEET HIGHLIGHTS

Top Tweet earned 247 impressions

Hands-on session at the #Winter School on III-Sb applications using COMSOL Software for Multiphysics Simulation comsol.com @COMSOL\_inc pic.twitter.com/ITNPXhOeU5



43.3

View Tweet activity

View all Tweet activity

Top Follower followed by 812 people



José María Súnico

@msunico #AIXTRON Technology & Strategy Advisor | EC Expert, Coach Mentor @ EC (Accelerator, Transition, Pathfinder) Bruihvest, Copernicus, Tethys, Eureka, Madmad, EWE

View profile

Top mention earned 74 engagements

Prof. Vihar Georgiev (Baxxp Teop7we8)

It was a huge pleasure for me to give an #invited talk at @quantimony #winter #school at @TUBerlin and to show the work at @DeviceModelling group at @UofGlasgow Thank you very much for the invitation. @UofGEngineering pic.twitter.com/LF22oLw6Hf



43.4

View Tweet

Top media Tweet earned 228 impressions

#Winter School on III-Sb applications

Day 4 continues with a talk about the industry perspective on memory technologies by Dr Chetan Gupta: @MicronTech - the world leader in innovating memory and storage solution @EngineeringBaim @IITKanpur pic.twitter.com/EeOw5WQVvh



Get your Tweets in front of more people

Promoted Tweets and content open up your reach on Twitter to more people.

Get started

MAY 2023 SUMMARY

Tweets	7	Tweet impressions	1,739
Public posts	320	Retweets	1
New followers	5		

Feb 2023 - 28 days

TWEET HIGHLIGHTS

Top Tweet earned 33 impressions

We continue with Prof Vihar Georgiev @viharantabest from @UofGEngineering who will lecture us about NESS - Nano-electronic Simulation Software - a flexible nano-device simulation platform.

#WinterSchool on II-Sb applications @TUBerlin @DeviceModelling pic.twitter.com/PLZGJH7fy



View Tweet activity

Top Follower followed by 21.9K people



Andreas Wellraff

Research and education in Physics with a focus on Quantum Computing, Nanotechnology and Learning with team @qutec @ITN\_Ext Director of the @ETHQuantumEye.

View profile

Top mention earned 33 engagements

Prof. Vihar Georgiev (Берко Георгиев)

On my way to #Berlin to give an invited talk about our work in @DeviceModelling in @UofG\_ENE @UofGEngineering at @quantimony #WinterSchool #Engineering Looking forward to meet colleagues and students. @MSCActions #ITN #H2020 #horizon2020 pic.twitter.com/3CRLS6RpUC



View Tweet

Top media Tweet earned 327 impressions

First lecture of the #WinterSchool on II-Sb applications: non-volatile memories - A modeling perspective

Distinguished Prof Dr Dieter Bimberg @TUBerlin on "Quantum Dot-Based Flash Memories: The Holy Grail at Sunrise?"

#MSCA #horizon2020 #semiconductors pic.twitter.com/h78Zx0b2f4



View Tweet

FEB 2023 SUMMARY

Tweets	12	Tweet impressions	1,383
Media posts	267	Retweets	6
New followers	4		

Jan 2023 - 31 days

TWEET HIGHLIGHTS

Top Follower followed by 12.4K people



ETS-Lindgren

We design & mfg electromagnetic & acoustic energy components & systems that make many aspects of modern life possible. #Wireless #5G #6G #AI https://ln.co/RTROZL4DR6

View profile

JAN 2023 SUMMARY

Tweet impressions	84	New followers	3
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Dec 2022 - 31 days

TWEET HIGHLIGHTS

Top Follower followed by 329 people



Annie

@annie\_pateroff #QuantumEye

View profile

DEC 2022 SUMMARY

Tweet impressions	216	New followers	1
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Nov 2022 - 30 days

TWEET HIGHLIGHTS

NOV 2022 SUMMARY

Tweet impressions	836	New followers	-2
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Oct 2022 - 31 days

TWEET HIGHLIGHTS

Top Follower followed by 959 people



OghmaNano (Device simulation tool (was @ppvdn))

A tool for simulating organic/Ferrocene thin film devices. Youtube https://ln.co/bqmtEo04N Previously called @ppvdn. Run by @rcimackenzie

View profile

OCT 2022 SUMMARY

Tweet impressions	382	New followers	2
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Sep 2022 - 30 days

TWEET HIGHLIGHTS

**Top Tweet** earned 71 impressions

The Report on our Survey on the exploitation of III-Sb semiconductors is available on our website 📄

Read it here 📄

[quantimony.eu/outreach/commu...](https://quantimony.eu/outreach/commu...)

🙏 Thanks to our contributors from the consortium and the III-Sb community!

#H2020 #MSCA #semiconductors

👤 🗨

[View Tweet activity](#)

[View all Tweet activity](#)

SEP 2022 SUMMARY

Tweets

1

Profile visits

281

Tweet impressions

292

New followers

-1

Aug 2022 - 31 days

TWEET HIGHLIGHTS

**Top Tweet** earned 23 impressions

CSIC INVESTIGA SPECIAL ISSUE 2020 features #quantimony and its role in promoting industrial and academic research throughout Europe in quantum semiconductor materials for telecommunications, data communications and photovoltaics #semiconductors #MSCA [twitter.com/immCsic/status...](https://twitter.com/immCsic/status...)

👤 🗨

[View Tweet activity](#)

[View all Tweet activity](#)

**Top Follower** followed by 30 people



**Celeste M**

[@ColeenSuarez](https://twitter.com/ColeenSuarez) [@imperial](#)

Secara doctoral CONICET en @quantimony Take an overview of superlattice structures para móviles pasados en agua Soy parte de <https://t.co/02EF0b0d>

[View profile](#)

**Top mention** earned 23 engagements

[@immCsic](https://twitter.com/immCsic) [Aug 24](#)

CSIC INVESTIGA SPECIAL ISSUE 2020 con presencia del proyecto @quantimony coordinado por el investigador del centro Benito Alén

📄 Pág. 52-55

[digital.csic.es/handle/10251/2...](https://digital.csic.es/handle/10251/2...)

[@quantimony\\_eu](https://twitter.com/quantimony_eu)

[@CSiC](https://twitter.com/CSiC) [pc.twitter.com/WUH4UUMRig](https://twitter.com/WUH4UUMRig)



👤 🗨

[View Tweet](#)

**Top media Tweet** earned 18 impressions

#SummerSchool on III-Sb applications: solar cells

Learning about #Soicore: The open source research software for modeling solar cells and the role of #RSE with Dr. @Dalonsoa from @imperialcollege @imperialRSE

[@immUpr](https://twitter.com/immUpr) #semiconductors

#photovoltaics #MSCA

[pc.twitter.com/immUpr](https://twitter.com/immUpr)



👤 🗨

[View Tweet activity](#)

[View all Tweet activity](#)

AUG 2022 SUMMARY

Tweets

1

Profile visits

125

New followers

1

Tweet impressions

223

Members

2

Jul 2022 · 31 days

### TWEET HIGHLIGHTS

#### Top Tweet earned 250 impressions

Perfect wrap-up for our #SummerSchool on photovoltaics: 2 simulation workshops with @FluximAG by Dr Urs Aeberhard & #Solcore by @Dalonsoa

Thank you for the excellent demonstrations! #photovoltaics #semiconductors @IsomUpm pic.twitter.com/6GjRrILQTK



1 retweet 4 replies 13 likes

View Tweet activity

View all Tweet activity

#### Top Follower followed by 2,454 people



#### Ascent Solar

@AscentSolar FOLLOWS YOU

Based in Colorado, Ascent designs, develops, and manufactures the ultimate solar technology and power solutions for remote locations and extreme environments.

View profile

#### Top mention earned 29 engagements

#### ISOM UPM

@IsomUpm · Jul 11

The 1st Summer School on III-Sb Photovoltaics is on! In the image, the inaugural talk by Prof. C. Algora. @telecoupm @LA\_UPM @quantimony @IsomUpm pic.twitter.com/AqnxT5sBBf



2 retweets 4 likes

View Tweet

#### Top media Tweet earned 233 impressions

Opening session of the Summer School on III-Sb applications: Solar Cells at @La\_UPM

#MSCA #photovoltaics #semiconductors #H2020 pic.twitter.com/5jO8mUXY3e



2 retweets 10 likes

View Tweet activity

View all Tweet activity

### JUL 2022 SUMMARY

Tweets: 15 Tweet impressions: 2,769

Profile visits: 3,005 Mentions: 6

New followers: 8

Jun 2022 - 30 days

TWEET HIGHLIGHTS

**Top Tweet** earned 211 impressions

Our #ESRs from @LancUniPhysics @WarwickPhysics @icmmcsic @La\_UPM & @TUEindhoven looking amazed yesterday on their 1st day of secondment at our partner organisation @esrfsynchrotron FR.

#phdlife @MSCActions #semiconductors #H2020 pic.twitter.com/wf1zXeLkLo



1 13

View Tweet activity

View all Tweet activity

**Top Follower** followed by 28 people



**Michael Flatté**

@MichaelFlatte FOLLOWS YOU

theoretical physicist and quantum engineer, spins for next-generation quantum systems. university professor, startup founder. iowa resident.

View profile

**Top mention** earned 11 engagements

**Fernanda Malato**  
@fehmalato · Jun 9

Wonderful lecture about hard x-rays and nanoanalysis by spectroscopy at the ID16B beamline! @esrfsynchrotron @quantimony #phdlife pic.twitter.com/RC7mPFGKDT



5

View Tweet

**Top media Tweet** earned 188 impressions

We are ready for the 1st Summer School on III-Sb Photovoltaics July 11-15 at @La\_UPM

We count with speakers from @FluximAG @ciencia\_ufscar @imperialcollege @CNRS @EPFL\_en @NOVAuni @IPVF\_institute @TampereUni & #unsw

more info quantimony.eu/news-and-event...

@IsomUpm #H2020 #MSCA pic.twitter.com/qeAtCRc7OC



4

JUN 2022 SUMMARY

Tweets	Tweet impressions
2	528
Profile visits	Mentions
718	1
New followers	
2	

May 2022 • 11 days so far...

### TWEET HIGHLIGHTS

#### Top Tweet earned 235 impressions

Some highlights from our 1st AAB meeting at @LancasterUni. Thanks to our hosts @LancUniPhysics for successfully managing a hybrid online/in person event and for inspiring lab visits & guest speakers talks!

@MSCActions #H2020 #semiconductors #PhD pic.twitter.com/5ea0ml8RiT



3 retweets 6 likes

View Tweet activity

View all Tweet activity

#### Top Follower followed by 2 people



**quantumrabbi**

@quantumrabbi FOLLOWS YOU

Because science and religion are an entangled pair. Promoting listening over silence, information over noise, questions as answers, and equality within dissent.

View profile

#### Top mention earned 3 engagements



**Dr Katy R Mahoney**

@researchercoach · Apr 21

Responsible research ethics. Explaining what this means to us as researchers.

@quantimony #creativeHE

pic.twitter.com/9BpDGSQk59



3 retweets 6 likes

View Tweet

#### Tweets with photos get noticed



It's true. Tweets with images drive more engagement and generate more responses.

Learn how to share a photo

### ADVERTISE ON TWITTER

#### Get your Tweets in front of more people



Promoted Tweets and content open up your reach on Twitter to more people.

Get started

### MAY 2022 SUMMARY

Tweets	Tweet impressions
1	295
Profile visits	New followers
198	2

Apr 2022 • 30 days

TWEET HIGHLIGHTS

**Top Tweet** earned 132 impressions

UPCOMING EVENT!

Our 1st Transferable Skills & AAB meeting at @LancasterUni is ready. With trainings for #PhD from @Vitae\_news @researchercoach and guest speakers Prof T Wang @sheffielduni, Dr A Marshall @LancUniPhysics & Prof M Wale @ucl More here: rb.gy/xxuoz1 #MSCA pic.twitter.com/bo0vy3xPDK



1 retweet 5 likes

View Tweet activity

View all Tweet activity

**Top Follower** followed by 1,953 people



**Dr Laura Clark**

@beamsontoast **FOLLOWS YOU**

Marie Skłodowska-Curie fellow @LEMAS\_UK @UniversityLeeds, developing computational imaging techniques for S/TEM. Visiting researcher @OxfordMaterials Own views

View profile

**Top mention** earned 44 engagements

**Richard Beanland**  
@RichBean0 · Apr 24

Excellent @quantimony meeting at @LancUniPhysics last week, where they have some serious plumbing skills pic.twitter.com/bS3gwCNew9



1 retweet 12 likes

View Tweet

APR 2022 SUMMARY

Tweets	1	Tweet impressions	454
Profile visits	768	Mentions	2
New followers	3		

Mar 2022 • 31 days

TWEET HIGHLIGHTS

**Top Tweet** earned 138 impressions

Ready for our 1st Industry Day on March 18, hosted by #AIXTRON

Industry experts from @amsOSRAM

@LayTec & partners #nextnanolab

@bruker @FluximAG @LancsMA

@QuantCad & #nanoplus will talk about

current work and challenges

more here [bit.ly/34qhvVl](http://bit.ly/34qhvVl)

#semiconductors #H2020

📄 🗨

View Tweet activity

View all Tweet activity

MAR 2022 SUMMARY

Tweets  
1

Profile visits  
235

Tweet retweets  
247

New followers  
0

Feb 2022 • 28 days

TWEET HIGHLIGHTS

**Top Tweet** earned 158 impressions

Congrats to our consortium member Gema Martínez Criado from @icmmcsic on the publication of a paper in @ISE5\_solar

Read here [doi.org/10.1016/j.sole...](https://doi.org/10.1016/j.sole...)

It proposes improvements to an empirical model for photovoltaic performance.

#DiaDeLaMujeryLaNiñaEnLaCiencia #H2020

📄 🗨

View Tweet activity

View all Tweet activity

FEB 2022 SUMMARY

Tweets  
3

Profile visits  
1,064

Tweet impressions  
481

New followers  
7

**Top Follower** followed by 100 people



**Richard Beanland**

@RichBeanland · @ICMMCSIC

Likes mucking about with atoms, crystals and diffraction, using electrons mainly

View profile

TWEET HIGHLIGHTS

**Top Tweet** earned 130 impressions

Thanks [@Uni\\_WUE](#) for making our first in person event happen! 🇪🇺

The 1st Annual III Sb Workshop featured presentations from our [#ESR](#) and workshops from experts [@StefanBirner1](#) [@nextnano\\_GmbH](#), Martin Kampf & Michael Heuken

 Coming next: Industry Day at [#AIXTRON](#) [#MSCA](#) [#H2020](#)  
pic.twitter.com/ESamSzVgN7



🔗 2    ❤️ 0

[View Tweet activity](#)

[View all Tweet activity](#)

**Top mention** earned 114 engagements

 **CSIC**  
[@CSIC](#) · Jan 21

El CSIC coordina una red internacional de investigación en semiconductores cuánticos para la industria. La red [@Quantimony](#), dotada con 3,7 millones de euros por la UE, desarrollará materiales y dispositivos semiconductores cuánticos basados en antimonio

[bit.ly/3fKoTgE](#)  
[pic.twitter.com/x4d09AHyVe](#)



🔗 2    🔄 12    ❤️ 25

[View Tweet](#)

JAN 2022 SUMMARY

Tweets: **3**      Tweet impressions: **255**

Profile visits: **501**      Mentions: **7**

New followers: **6**

**Top Follower** followed by 990K people



**CSIC**   
[@CSIC](#) · [FOLLOWS YOU](#)

Consejo Superior de Investigaciones Científicas (CSIC), el mayor organismo público de investigación de España. Spanish National Research Council.

[View profile](#)

Dec 2021 • 31 days

TWEET HIGHLIGHTS

**Top mention** earned 3 engagements



**LancasterPressOffice**

@LancasterPress · Dec 14

Our @LancUniPhysics @LancsuniScitech is to train early stage researchers in semiconductor sciences via @Quantimony [lancaster.ac.uk/news/lancaster...](http://lancaster.ac.uk/news/lancaster...)

🔄 1 ❤️ 1

[View Tweet](#)

DEC 2021 SUMMARY

Tweet impressions

64

Profile visits

137

Mentions

1

New followers

-1

Nov 2021 • 30 days

TWEET HIGHLIGHTS

**Top Tweet** earned 98 impressions

We are celebrating! 🥳🥳 Our hiring process is finished and 14 #MSCA fellows have joined our consortium's institutions to start their #PhD 🎓

Meet our research teams at [quantimony.eu/people/](https://quantimony.eu/people/)

#quantum #semiconductors #H2020

[pic.twitter.com/AQVuPutwye](https://pic.twitter.com/AQVuPutwye)



🔄 1 ❤️ 2

NOV 2021 SUMMARY

Tweets

1

Tweet impressions

187

Profile visits

383

New followers

1

Oct 2021 • 31 days

TWEET HIGHLIGHTS

Sep 2021 • 30 days

TWEET HIGHLIGHTS

**Top Follower** followed by 29 people



**Ali Büyükpınar**  
@BuyukpinarA FOLLOWING YOU

[View profile](#)

Aug 2021 • 31 days

TWEET HIGHLIGHTS

**Top Follower** followed by 98 people



**Gizem**  
@thegizce FOLLOWING YOU

Research Associate, Marie Curie ESR @LancasterUni  
@METU\_ODTU Alumni | @sabanci Alumni #physics  
#semiconductortechnology #quantum  
#nanotechnology

OCT 2021 SUMMARY

Tweet impressions	86	Profile visits	13
-------------------	----	----------------	----

New followers	0
---------------	---

SEP 2021 SUMMARY

Tweet impressions	90	Profile visits	49
-------------------	----	----------------	----

New followers	1
---------------	---

AUG 2021 SUMMARY

Tweet impressions	187	Profile visits	111
-------------------	-----	----------------	-----

New followers	1
---------------	---

Jul 2021 • 31 days

TWEET HIGHLIGHTS

**Top Follower** followed by 98 people



**Gizem**

@thegizce FOLLOWS YOU

Research Associate, Marie Curie ESR @LancasterUni  
 @METU\_ODTU Alumni | @sabanciu Alumni #physics  
 #semiconductortechnology #quantum  
 #nanotechnology

[View profile](#)

JUL 2021 SUMMARY

Tweet impressions	Profile visits
174	98

New followers  
2

Jun 2021 • 30 days

TWEET HIGHLIGHTS

JUN 2021 SUMMARY

Tweet impressions	Profile visits
123	99

New followers  
0

May 2021 • 31 days

TWEET HIGHLIGHTS

**Top Follower** followed by 84 people



**Ayush Rastogi**

@rastogi\_ayush\_ FOLLOWS YOU

[View profile](#)

MAY 2021 SUMMARY

Tweet impressions	Profile visits
348	168

New followers  
1

Apr 2021 • 30 days

TWEET HIGHLIGHTS

**Top Tweet** earned 54 impressions

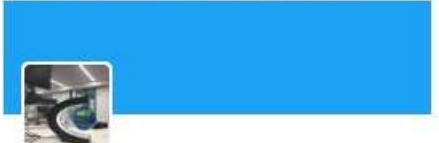
💡 New @MSCActions info event on 23 March at 9:00 CET!  
With #MSCA novelties and changes under Horizon Europe #HorizonEu.  
More info [📄](#)  
[ec.europa.eu/research/marie...](https://ec.europa.eu/research/marie...)  
[twitter.com/MSCActions/sta...](https://twitter.com/MSCActions/sta...)

♥ 2

[View Tweet activity](#)

[View all Tweet activity](#)

**Top Follower** followed by 212 people



**Caroline Messecar**

@word sarethebest [FOLLOWS YOU](#)

Rare earths and electronic metals reporter. RTs not endorsements.

[View profile](#)

APR 2021 SUMMARY

Tweet impressions	Profile visits
306	262
New followers	
1	

Feb 2021 • 28 days

TWEET HIGHLIGHTS

**Top Tweet** earned 36 impressions

@quantimony's call for #PhD applicants in the field of #quantum #semiconductors technology has had massive success and global outreach 🇪🇺

We received 348 candidatures from 56 countries, with 29.3% female 👩 presence! @MSCActions quantimony.eu pic.twitter.com/7QbHwKghLY



👁️ 1 ❤️ 3

[View Tweet activity](#)

[View all Tweet activity](#)

**Top mention** earned 11 engagements

@quantimony's call for #PhD applicants in the field of #quantum #semiconductors technology has had massive success and global outreach 🇪🇺

We received 348 candidatures from 56 countries, with 29.3% female 👩 presence! @MSCActions quantimony.eu pic.twitter.com/7QbHwKghLY



👁️ 1 ❤️ 3

[View Tweet activity](#)

[View all Tweet activity](#)

**Top Follower** followed by 121 people



**SHREEEB**

@\_SHREEEB FOLLOWS YOU

Physics PhD Apatura\_Astro for photography  
<https://t.co/UtxEY4QPni> <https://t.co/y9dyCLc64Q>

[View profile](#)

FEB 2021 SUMMARY

Tweets	Tweet impressions
1	323

Profile visits	Mentions
214	1

New followers
1

Jan 2021 • 31 days

TWEET HIGHLIGHTS

**Top Follower** followed by 10.8K people



**Postgrado CSIC**  
@DPE\_CSIC

Cuenta oficial Departamento de Postgrado y Especialización (DPE) CSIC. CSIC's Postgraduate and Specialization Department official profile [dpe@csic.es](mailto:dpe@csic.es) #BeCSIC

[View profile](#)

**Top mention** earned 10 engagements

**FICYT**  
@FICYT · 19 Jan 2021

Red y proyecto de investigación europeo QUANTIMONY coordinado por el #CSIC y financiada por programa Marie Curie MSCA-ITN-2020 busca 14 candidat@s para realizar tesis doctorales en tecnologías semiconductoras. @quantimony @MSCActions

[ficyt.es/listas/detalle...](https://ficyt.es/listas/detalle...)  
[pic.twitter.com/sTIPDhVqDQ](https://pic.twitter.com/sTIPDhVqDQ)



2 3

[View Tweet](#)

JAN 2021 SUMMARY

Tweet impressions  
**1,193**

Mentions  
**1**

Profile visits  
**62**

New follows  
**1**

Dec 2020 • 31 days

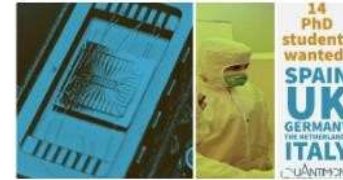
TWEET HIGHLIGHTS

**Top Tweet** earned 515 impressions

Get involved in the future of Quantum Semiconductors Science and Technology!!!

14 PhD positions in NanoElectronics, NanoMaterials and NanoOptics available in Spain, UK, Germany, the Netherlands and Italy.

Apply at [quantimony.eu/recruitment](https://quantimony.eu/recruitment) until January 31st. [pic.twitter.com/eqjZDVBE9n](https://pic.twitter.com/eqjZDVBE9n)



4 4

[View Tweet activity](#)

[View all Tweet activity](#)

**Top media Tweet** earned 151 impressions

QUANTIMONY (MSCA-ITN Network in Quantum Semiconductor Technologies exploiting Antimony) will provide high-level training to fourteen early stage researchers (ESRs) in the overarching field of III-Sb Semiconductor Science and Technology. Stay tuned!  
[cordis.europa.eu/project/id/956...](https://cordis.europa.eu/project/id/956...)  
[pic.twitter.com/iWl7sla0P](https://pic.twitter.com/iWl7sla0P)



1 3

[View Tweet activity](#)

[View all Tweet activity](#)

DEC 2020 SUMMARY

Tweets  
**2**

Profile visits  
**1,702**

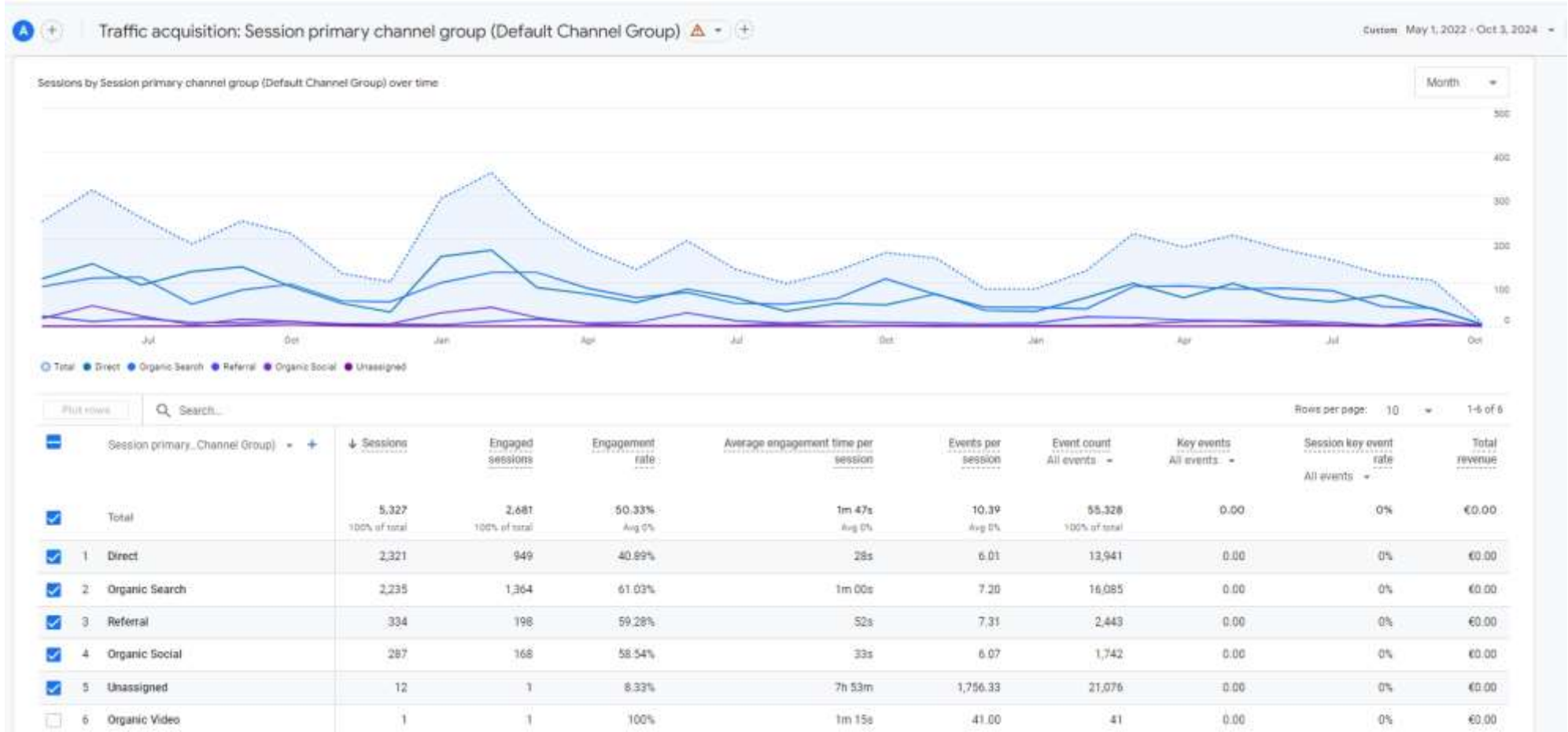
New followers  
**2**

Tweet impressions  
**666**

Mentions  
**1**

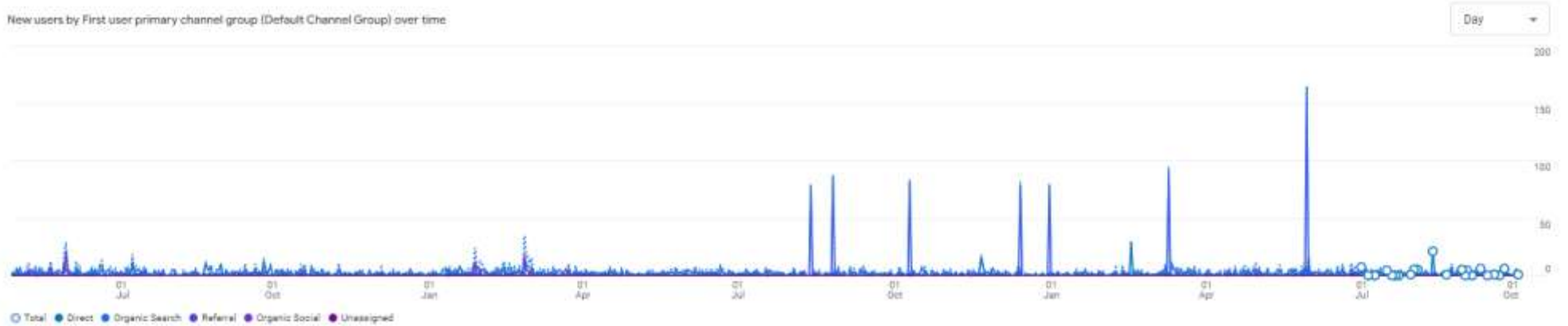
Annex VII. Website Google Analytics

Traffic Acquisition



User Acquisition

New users by First user primary channel group (Default Channel Group) over time

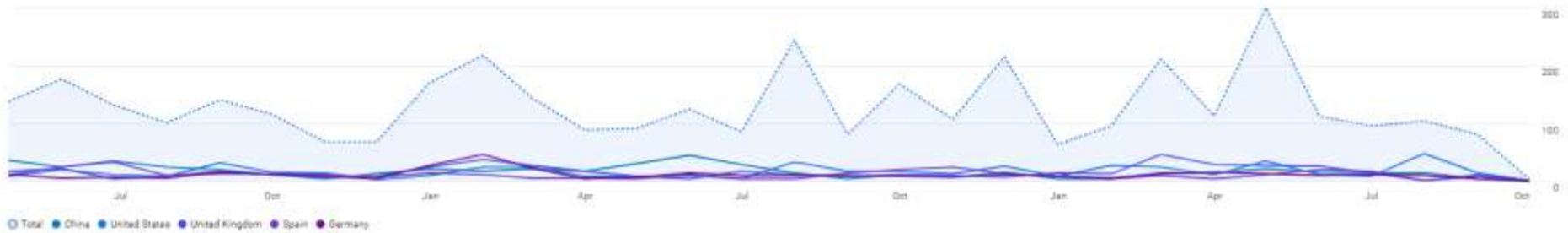


First user prim... Channel Group	Total users	New users	Returning users	Average engagement time per active user	Engaged sessions per active user	Event count	Key events	User key event rate
	100% of total	100% of total	100% of total	Avg 0%	Avg 0%	100% of total	All events	All events
Total	3,795	3,862	497	2m 30s	0.71	55,328	0.00	0%
1 Direct	1,574	1,543	239	53s	0.75	16,357	0.00	0%
2 Organic Search	1,249	1,236	214	1m 37s	0.92	13,999	0.00	0%
3 Referral	756	858	32	7m 52s	0.26	23,385	0.00	0%
4 Organic Social	224	224	20	34s	0.68	1,563	0.00	0%
5 Unassigned	1	1	0	7s	1.00	4	0.00	0%

Engagement per pages and screens

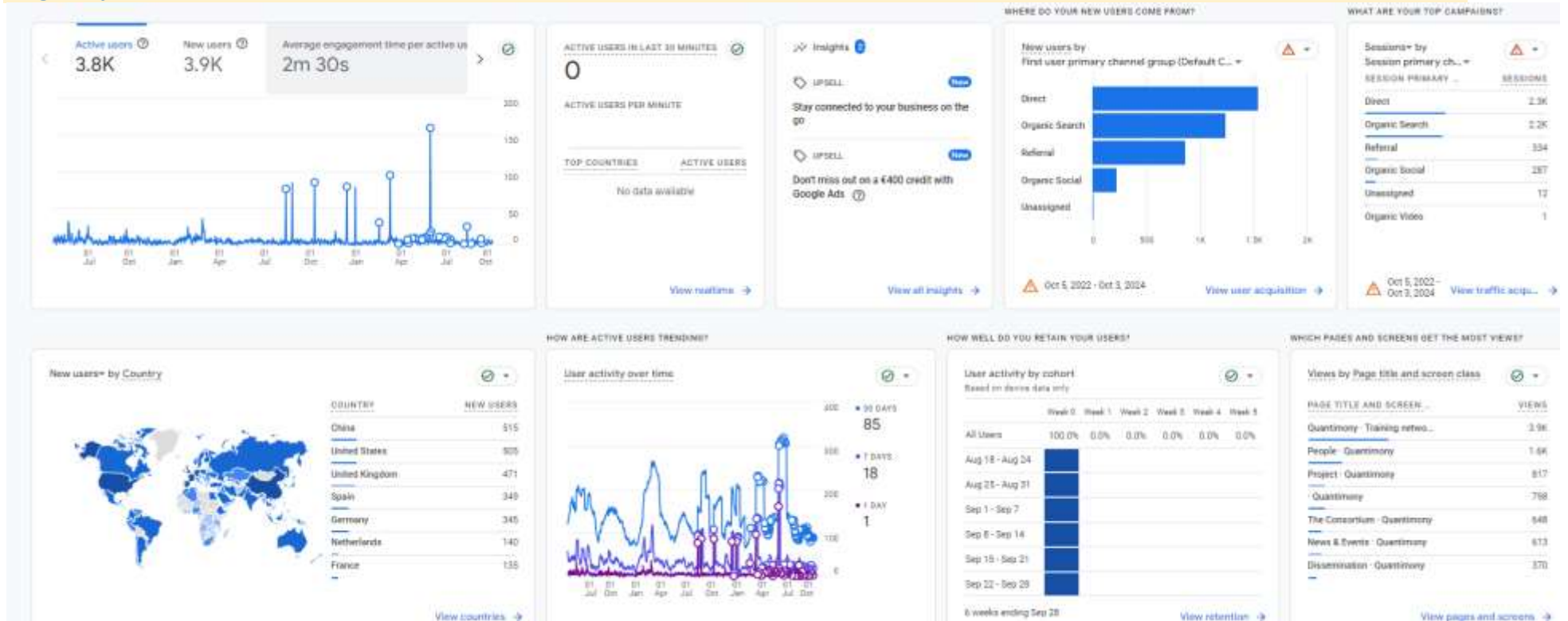
Plot rows		Search...		Rows per page: 10		Go to: 1	
<input type="checkbox"/>	Page title and screen class	↓ Views	Active users	Views per active user	Average engagement time per active user	Event count All events	Key events All events
<input checked="" type="checkbox"/>	Total	31,180 <small>100% of total</small>	3,792 <small>100% of total</small>	8.22 <small>Avg 0%</small>	2m 30s <small>Avg 0%</small>	55,328 <small>100% of total</small>	0.00
<input type="checkbox"/>	1 (not set)	19,689	556	35.41	10m 11s	21,003	0.00
<input checked="" type="checkbox"/>	2 Quantimony · Training network on antimony-based semiconductor materials	3,852	2,130	1.81	34s	12,173	0.00
<input checked="" type="checkbox"/>	3 People · Quantimony	1,635	747	2.19	1m 14s	4,652	0.00
<input checked="" type="checkbox"/>	4 Project · Quantimony	817	485	1.68	36s	2,124	0.00
<input checked="" type="checkbox"/>	5 · Quantimony	798	193	4.13	46s	2,130	0.00
<input checked="" type="checkbox"/>	6 The Consortium · Quantimony	648	336	1.93	31s	1,629	0.00
<input type="checkbox"/>	7 News & Events · Quantimony	613	321	1.91	22s	1,437	0.00
<input type="checkbox"/>	8 Dissemination · Quantimony	370	212	1.75	29s	982	0.00
<input type="checkbox"/>	9 Outreach · Quantimony	302	146	2.07	22s	755	0.00
<input type="checkbox"/>	10 UPCOMING – Winter School in III-Sb applications: non-volatile memories – A Modelling Perspective · Quantimony	283	163	1.74	33s	1,186	0.00

Demographic Overview



Country	Active users	New users	Engaged sessions	Engagement rate	Engaged sessions per active user	Average engagement time per active user	Event count	Key events	User key event rate	Total revenue
Total	3,792 100% of total	3,862 100% of total	2,681 100% of total	50.33% Avg 0%	0.71 Avg 0%	2m 30s Avg 0%	55,328 100% of total	0.00	0%	€0.00
1 China	516	515	90	16.13%	0.17	43s	3,328	0.00	0%	€0.00
2 United States	505	505	103	21.55%	0.20	1m 12s	4,016	0.00	0%	€0.00
3 United Kingdom	481	471	445	52.41%	0.93	1m 20s	6,286	0.00	0%	€0.00
4 Spain	367	349	655	66.77%	1.78	2m 30s	8,163	0.00	0%	€0.00
5 Germany	351	345	355	62.06%	0.98	1m 35s	5,308	0.00	0%	€0.00
6 Netherlands	150	140	141	55.95%	0.94	1m 13s	1,757	0.00	0%	€0.00
7 France	135	135	171	66.02%	1.27	2m 36s	2,517	0.00	0%	€0.00

## Google Analytics Overview



## Annex VIII. Total Dissemination & Public Engagement outputs

The table below reflects the total number of dissemination and public engagement outputs that the Funding & Tenders Portal gathers in order to measure the diversity and impact of our Dissemination & Public Engagement activities as well as for statistical purposes.

<b>Total outputs Dissemination &amp; Public Engagement Activities (F&amp;T list)</b>	
<b>Output</b>	<b>Number</b>
<b>Organisation of a conference</b>	2
<b>Organisation of a Workshop</b>	3
<b>Press Release</b>	6
<b>Non-scientific and non peer-reviewed publication</b>	2
<b>Exhibition</b>	
<b>Flyer</b>	1
<b>Social Media</b>	93
<b>Website</b>	2
<b>Communication campaign</b>	1
<b>Video/Film</b>	82
<b>Brokerage event</b>	
<b>Pitch event</b>	
<b>Trade fair</b>	
<b>Participation in activities jointly organised with other EU project</b>	
<b>Other</b>	3