



## Personal information

Name / Surname

Address

Telephone

Personal Email

Nationality

Date of birth

Gender

## Employment

Department

Address

Occupation or position held

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### Trusso, Sebastiano

Via C. Battisti, 71, 98053, Castoreale (ME), Italy.

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Italian

10/02/1962

M

### Istituto per i Processi Chimico Fisici del CNR

Scienze chimiche e tecnologie dei materiali

V.le F. Stagno d'Alcontres, 37, 98158, Messina, Italy

Researcher, Acting Director from 01/04/2022 to 31/12/2022

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## Education and training

Dates

Title of qualification awarded

Title

Organization

Result

14/03/1989.

Master's Degree in Physics

Proprietà di trasporto di dispositivi fotovoltaici realizzati con a-Si:H (Transport properties of a-Si:H based solar cells)

Università degli studi di Messina

110/110 cum Laude

## Personal skills and competences

Mother tongue

Other language(s)

*Self-assessment*

*European level<sup>(\*)</sup>*

**English**

Computer skills and competences

**h-index**

**Italian ASN 2012**

**Italian ASN 2020**

## Visiting Positions

Visiting Researcher

**Italian**

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
good	excellent	good	good	good

O.S. Windows & OSX; Office; Matlab; TeX; C, C++, VBasic, C#, Java, HTML, Networking, RS232, IEEE488.

Scopus 28, ISI 27, Google Scholar 30.

Associate Professor, 02/B1 Condensed Matter Experimental Physics

Associate Professor, 02/B1 Condensed Matter Experimental Physics

Division of Chemical Biology, Chalmers University, 8th November-12th December, 2016, Gotheborg, (SE)

Visiting Researcher

Division of Chemical Biology, Chalmers University, 19th June-29th July, 2016, Gothenburg, (SE)

Visiting Researcher

Division of Chemical Biology, Chalmers University, 20th June-26th February, 2016, Gothenburg, (SE)

## Symposium Organizer

Chair

International Workshop on Plasma Production by Laser Ablation, PPLA2011, Catania, Italy, 21-23 September 2011

Chair

2nd International Conference on Enhanced Spectroscopy, ICES 2015, Messina, Italy, 12-15 October 2015

Scientific Committee

XXVI AIV Conference, Rome, Italy, 7-10 November 2023

Chair

XXVI AIV Conference, Rome, Italy, 7-10 November 2023 : Cultural Heritage, Conservation and Diagnostics

Chair

Giornate di Dipartimento DSCTM 2023, 18-20 October 2023, Sestri Levante (Ge) Italy

## Projects - PI

**[T1]-** Date

01/07/2012 - 31/05/2015

Ruolo

Responsabile di 2 U.O

PON02 00355 2964193

Hippocrates

Research Unit - OR2-RI 2.2 Messa a punto di tecnologie sensoristiche di tipo ottico; OR5-RI 5.1 Progettazione dei dimostratori per la diagnostica prognostica; OR5-RI 5.2 Sviluppo e caratterizzazione dei dimostratori per la diagnostica prognostica; Euro 132.910,20 (Development of optical technologies based sensors)

**[T2]-** Date

01/07/2013 - 31/05/2016

Ruolo

Responsabile U.O

Polisocial Award - Epilepsy control in developing country

Growth of gold and silver nanostructured SERS active substrates by pulsed laser ablation

**[T3]-** Date

01/01/2010 - 31/01/2011

Ruolo

Responsabile Scientifico

Progetto Coordinato CNR-MTU, Accademia delle Scienze Ungherese

Deposizione di Film di WO<sub>x</sub> per applicazioni sensoristiche.

**[T4]-** Date

02/01/2002 - 31/12/2003

Ruolo

Responsabile Scientifico

Diffusione Raman e Brillouin risonante e localizzazione di stati elettronici

Bilateral Cooperation between CNR-CNRS (Resonant Raman and Brillouin scattering of localized electronic states)

**[T5]-** Date

01/01/2000 - 31/12/2001

Ruolo

Responsabile Scientifico

Micro- and nano-Raman Spectroscopy

Bilateral Cooperation between CNR-CNRS

**[T6]-** Date

01/01/1998 - 31/12/2000

Ruolo

Responsabile U.O.

Dispositivi optoelettronici discreti e integrati in silicio

Research Unit - CNR, Progetto Finalizzato Madess II (Silicon based optoelectronic devices)

**[T7]-** Date

01/01/1998 - 31/12/2000

Ruolo  
Metodologie IR e FIR per la  
caratterizzazione degli aspetti  
dinamici delle proprietà di  
trasporto dei materiali di  
dispositivi a semiconduttore

## Project Participant

<b>[T8]</b> - Date SAMOTHRACE - SiciliAn MicronanOTech Research And Innovation Center	1/10/2022 al 30 Settembre 2025 WP6 Materials and micro-nanotechnologies for culturale heritage
<b>[T9]</b> - Date AdP H2 POR MITE, MITE ENEA- CNR	1/07/2022 al 31/12/2025 Ricerca e sviluppo di tecnologie per la filiera dell'idrogeno
<b>[T10]</b> - Date IDEHA - INNOVAZIONI PER L'ELABORAZIONE DEI DATI NEL SETTORE DEL PATRIMONIO CULTURALE	01/07/2018 al 01/01/2021 Caratterizzazione mediante imaging termico di manufatti di interesse culturale, integrazione dati una piattaforma BIM.
<b>[T11]</b> - Date STBIC Scienze e Tecnologia per il recupero e la fruizione di beni di interesse culturale	01/12/2017 al 31/12/2109 Attività di laboratorio e tutoraggio V. Parrotta e V. Renda
<b>[T12]</b> - Date Accepted Proposal @ ISIS STCF (UK)	10/11/2019 Performance evaluation of the IMAT-CCD camera
<b>[T13]</b> - Date Accepted Proposal @ ISIS STCF (UK)	03/06/2019 Performance evaluation of the IMAT-CCD camera
<b>[T14]</b> - Date Accepted Proposal @ ISIS STCF (UK)	01-01-2015 al 31-12-2016 Performance evaluation of the IMAT-CCD camera
<b>[T15]</b> - Date Accepted Proposal @ ISIS STCF (UK)	01-01-2015 al 31-12-2016 Characterization of Ti-Al-V nanostructured alloys for hydrogen storage applications
<b>[T16]</b> - Date Nanotecnologie e nanomateriali per i beni culturali (TECLA) PON 2007-2013	01-01-2015 al 31-12-2016 Studio tramite spettroscopia Raman e SERS di campioni di rilevanza per i beni culturali
<b>[T17]</b> - Date PANAREA	12/11/2014al 31/12/2020 Convenzione tra UNIMI e IPCF CNR
<b>[T18]</b> - Date PON "Ricerca e Competitività" 2007-2013	01/01/2012 al 31/12/2015 TESEO Tecnologie ad alta Efficienza per la Sostenibilita Energetica ed ambientale On-board
<b>[T19]</b> - Date PON "Ricerca e Competitività" 2007-2013	01/01/2012 al 30/06/2015 ENERGETIC Tecnologie per l'ENERGia e l'Efficienza enerGETICa
<b>[T20]</b> - Date Progetto Nazionale PON "Ricerca e competitività" 2007-2013	1/11/2012 al 30/11/2015 Tecnologie innovative per la fruizione dei beni e dei contenuti culturali e la promozione dei territori collegati per uno sviluppo del turismo sostenibile - CLUSTER DICET – INMOTO – ORCHESTRA
<b>[T21]</b> - Date	1/11/2012 al 31/10/2015

Partecipazione al Progetto Nazionale PON "Ricerca e competitività" 2007- 2013	SMART HEALTH CLUSTER OSDH - SMART FSE -STAYWELL
<b>[T22]</b> - Date	03/01/2011 al 31/12/2013
POR FESR Sicilia 2007-2013 Misura 4.1.1.1.	SAGRO Fotovoltaico di III° generazione: sviluppo di celle solari sensibilizzate con coloranti estratti da prodotti vegetali siciliani
<b>[T23]</b> - Date	2005
Materiali dielettrici a film sottile - proprietà strutturali ed elettroniche dell'interfaccia Si/SiO <sub>2</sub> sottoposta a processi di nitrurazione	Programma di Ricerca d'Ateneo (PRA05) dell'Università di Messina (Dielectric thin films - electronic and structural properties of the Si/SiO <sub>2</sub> interface after nitrurizing processes )
<b>[T24]</b> - Date	2004
Materiali dielettrici a film sottile- Strati sottili di leghe silicio-carbonio	Programma di Ricerca d'Ateneo (PRA04) dell'Università di Messina (Dielectric thin films - Carbon-silicon alloy thin films)
<b>[T25]</b> - Date	26/01/2006 - 31/12/2009
Produzione in laboratorio e caratterizzazione di analoghi dei grani di polvere cosmica	Programma di Ricerca Scientifica di Rilevante Interesse Nazionale (PRIN05) ((Laboratory production and characterization of cosmic dust like grains)
<b>[T26]</b> - Date	2003
Materiali dielettrici a film sottile - Film Sottili di SiCN	Programma di Ricerca d'Ateneo (PRA03) dell'Università di Messina (Dielectric thin films - SiCN thin films )
<b>[T27]</b> - Date	2003
Programma di Ricerca Giovani Ricercatori (2003) dell'Università di Messina	Nanocristalli di silicio in film sottili di SiO <sub>x</sub> (1<x<2) (Silicon nanocrystals in SiO <sub>x</sub> (1<x<2) thin films)
<b>[T28]</b> - Date	2002
Programma di Ricerca Giovani Ricercatori (2002) dell'Università di Messina	Proprietà strutturali, ottiche ed elettroniche dei film di a-SiC drogati con azoto (Structural, optical and electronic properties of nitrogen doped a-SiC thin films)
<b>[T29]</b> - Date	2002
Programma di Ricerca d'Ateneo (PRA02) dell'Università di Messina	Proprietà ottiche ed elettroniche di film sottili di nitruro di carbonio e silicio (Structural, optical and electronic properties of nitrogenated carbon and silicon thin films)
<b>[T30]</b> - Date	2004-2009
Programma Progetto: 1105 N° 232	Materiali nanostrutturati preparati con metodologie chimiche per applicazioni optoelettroniche ed ambientali (Nanostructured materials prepared by chemical methods for optoelectronic and environmental applications)
<b>[T31]</b> - Date	2004-2005
Programma di Ricerca d'Ateneo (PRA01) dell'Università di Messina	Proprietà ottiche ed elettroniche di film sottili di nitruro di carbonio e silicio (Structural, optical and electronic properties of nitrogenated carbon and silicon thin films)
<b>[T32]</b> - Date	2004-2006
Cluster 29 Beni Culturali	Nuove tecnologie per la conoscenza, lo studio e la gestione dei beni artistici e culturali: il patrimonio museale della provincia di Catania (New technologies for the knowledge, study and conservation of cultural heritage.)
<b>[T33]</b> - Date	2000-2004
Cluster 26 Materiali Innovativi	Metodologie e diagnostiche per materiali e ambiente (Methodologies and diagnostic techniques for new materials and environmental applications)
<b>[T34]</b> - Date	1996-2001

Progetto Finalizzato Beni Culturali	2.1-Nuove metodologie per la caratterizzazione fisico-chimica dei materiali costituenti beni mobili. (New methodologies for the physical-chemical characterization of materials.)
<b>[T35]</b> - Date Progetto Coordinato	1995-1996 Simulations and Experiments for Macro-and Supramolecular Systems
<b>[T36]</b> - Date Fondi Strutturali 1994-1999 Fondo Europeo di Sviluppo Regionale	1995-1996 Ricerca e Innovazione Misura II.1
<b>[T37]</b> - Date Progetto Strategico Tecnologie moderne per la conservazione dei beni culturali.	1995-1996 Controllo del deterioramento di beni di interesse culturale mediante tecniche spettroscopiche (Spectroscopic techniques for the control of deterioration of cultural heritage.)
<b>[T38]</b> - Date Bilateral Cooperation	1993-1994 CNR-Boston University (BU-USA) Dynamical and structural properties of swollen gels
<b>[T39]</b> - Date Progetto Coordinato	1993 Proprietà strutturali di fluidi complessi (Structural properties of complex fluids)
<b>[T40]</b> - Date Progetto Finalizzato Tecnologie Elettroottiche	1992 - 1993 Sistemi per analisi di forma e dimensione di particelle micrometriche : applicazione al particolato atmosferico (Experimental methods for the measurement of shape and size of micrometric particles: application to the atmospheric particulate)
<b>[T41]</b> - Date Progetto Speciale:Sistemi automatici per il riconoscimento di impronte	1992 Analisi digitale di immagini di tracce primarie balistiche (Digital image processing of primary ballistic tracks.)
<b>[T42]</b> - Date Progetto Finalizzato Tecnologie Elettroottiche	1991 Sistemi per analisi di forma e dimensione di particelle micrometriche : applicazione al particolato atmosferico (Experimental methods for the measurement of shape and size of micrometric particles: application to the atmospheric particulate)

## Publications

- [1] C. Zanchi, M. Tommasini, A. Lucotti, M. Pistaffa, S. Trusso, P.M. Ossi, F. Fontana, B. Bertolotti, S. Rizzo, SERS and DFT as Powerful Tools in the Structure Elucidation of a Novel Aza-Aromatic Derivative, *Journal Physical Chemistry C*, <https://doi.org/10.1021/acs.jpcc.4c04561>, in press.
- [2] D. Giuffrida, D. Spadaro, V. Strano, S. Trusso, M.L. Saladino, F. Armetta et al., Eco-sustainable and flexible SERS platform based on waste cellulose decorated by Ag nanoparticles, *Materials Chemistry and Physics*, 2023, 329,130061.
- [3] A. Donato, D. Spadaro, D. Giuffrida, G. Sabatino, M. Di Bella, S. Trusso et al., Monitoring plastic pellet pollution in coastal environments through handheld Raman spectroscopy: Data from the Mediterranean coasts (Southern Italy), *Marine Pollution Bulletin* 2023, 202, 116312
- [4] S. Trusso, G. Festa, C. Scatigno, G. Romanelli, A. Piperno, R.C. Ponterio, Neutron sensing at spallation neutron sources by SERS, *Applied Surface Science*, 2023, 651, 159186.
- [5] M Tommasini, A Lucotti, L Stefani, S Trusso, PM Ossi, SERS Detection of the Anti-Epileptic Drug Perampanel in Human Saliva , *Molecules*,2023, 28,11,4309.
- [6] F. Armetta, ML Saladino, MC Martinelli, R Vilardo, G Anastasio, S Trusso, V Mollica Nardo, D Giuffrida, RC Ponterio, Improved chemometric approach for XRF data treatment: application to the reverse glass paintings from the Lipari collection, *RSC Advances*, 2023, 13, 7, 4495-4503.
- [7] D Chillé, V Mollica Nardo, O Giuffrè, RC Ponterio, F Saija, J Sponer, S Trusso, G Cassone, C Foti, Binding of Arsenic by Common Functional Groups: An Experimental and Quantum-Mechanical Study, *Applied Sciences*, 2022, 12, 6, 3210.
- [8] F Giacobello, V Mollica Nardo, C Foti, RC Ponterio, F Saija, S Trusso, J Sponer, G Cassone, O Giuffrè, Hydrolysis of  $Al^{3+}$  in Aqueous Solutions: Experiments and Ab Initio Simulations, *Liquids*, 2022, 2, 1, 26-38.
- [9] C Abate, G Cassone, M Cordaro, O Giuffrè, V Mollica Nardo, RC Ponterio, F Saija, J Sponer, S Trusso, C Foti, Understanding the behaviour of carnosine in aqueous solution: an experimental and quantum-based computational investigation on acid–base properties and complexation mechanisms with  $Ca^{2+}$  and  $Mg^{2+}$ , *New Journal of Chemistry*, 2021, 43, 20352-20364.
- [10] L De Plano, D Franco, M Bonsignore, E Fazio, S Trusso, A Allegra, C Musolino, R Cavaliere, G Ferlazzo, F Neri, Phage-Phenotype Imaging of Myeloma Plasma Cells by Phage Display, *Applied Sciences*, 2021, 17, 7910.
- [11] G Cassone, S Trusso, J Sponer, F Saija, Electric Field and Temperature Effects on the Ab Initio Spectroscopy of Liquid Methanol, *Applied Sciences*, 2021, 12,5457.
- [12] V Mollica Nardo, V Renda, S Trusso, RC Ponterio, Role of pH on nanostructured SERS active substrates for detection of organic dyes, *Molecules*,2021, 26, 2360.
- [13] M Bonsignore, S Trusso, C De Pasquale, G Ferlazzo, A Allegra, V Innao, Vanessa, C Musolino, D Franco, LM De Plano, SP Guglielmino, A multivariate analysis of Multiple Myeloma subtype plasma cells, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*,2021, 258, 119813.
- [14] F Armetta, V Mollica Nardo, S Trusso, ML Saladino, A Arcovito, A; E Cosio, P Jorio, RC Ponterio, The silver collection of San Gennaro treasure (Neaples): A multivariate statistic approach applied to X-ray fluorescence data, *Spectrochimica Acta Part B: Atomic Spectroscopy*, 2021, 180, 106171.
- [15] G Ceccio, J Vacik, S Trusso, A Cannavò, P Horak, V Hnatowicz, PY Apel, Ion transmission spectroscopy of pores filled with Au nanoparticles, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 2021, 491, 29-33.
- [16] E Fazio, B Gökce, A De Giacomo, M Meneghetti, G Compagnini, M Tommasini, F Waag, A Lucotti, CG Zanchi, PM Ossi, Nanoparticles engineering by pulsed laser ablation in liquids: concepts and applications, *Nanomaterials*, 2020, 11, 2317.
- [17] CG Zanchi, A Lucotti, M Pistaffa, PM Ossi, S Trusso, F Fontana, G Carminati, S Rizzo, M Tommasini, A Raman and SERS study on the interactions of aza [5] helicene and aza [6] helicene with a nanostructured gold surface, *Vibrational Spectroscopy*, 2020, 111, 103180.
- [18] G Cassone, D Chillè, V Mollica Nardo, O Giuffrè, RC Ponterio, J Sponer, S Trusso, F Saija, C Foti, Arsenic–nucleotides interactions: an experimental and computational investigation, *Dalton Transactions*, 2020, 49,19,6302-6311.
- [19] D Chillè, G Cassone, F Giacobello, O Giuffrè, V Mollica Nardo, R Ponterio, F Saija, J Sponer, S Trusso, C Foti, Removal of As (III) from biological fluids: mono-versus dithiolic ligands, *Chemical Research in Toxicology*,2020, 33, 967-974.
- [20] C Zanchi, L Giuliani, A Lucotti, M Pistaffa, S Trusso, F Neri, M Tommasini, PM Ossi, On the performance of laser-synthesized, SERS-based sensors for drug detection, *Applied Surface Science*,2020, 507, 145109,2020.

- [21] S. Gullace, F. Nastasi, F. Puntoriero, S. Trusso, G. Calogero, A platinum-free nanostructured gold counter electrode for DSSCs prepared by pulsed laser ablation, *Applied Surface Science*, 2020 506, 144690.
- [22] V Mollica Nardo, G Cassone, RC Ponterio, F Saija, J Sponer, M. Tommasini, S. Trusso, Electric-field-induced effects on the dipole moment and vibrational modes of the centrosymmetric indigo molecule, *J. Phys. Chem. A* 2020, 124, 51, 10856–10869.
- [23] V Renda, VM Nardo, G Anastasio, E Caponetti, CS Vasi, ML Saladino, S. Trusso, R.C. Ponterio, A multivariate statistical approach of X-ray fluorescence characterization of a large collection of reverse glass paintings, *Spectrochimica Acta Part B: Atomic Spectroscopy* 159, 105655.
- [24] Matteo Tommasini, Chiara Zanchi, Andrea Lucotti, Alessandro Bombelli, Nicolò S. Villa, Marina Casazza, Emilio Ciusani, Ugo de Grazia, Marco Santoro, Enza Fazio, Fortunato Neri, Sebastiano Trusso, Paolo M. Ossi Laser-Synthesized SERS Substrates as Sensors toward Therapeutic Drug Monitoring, *Nanomaterials* 9, 677 (2019).
- [25] C. Zanchi, A. Lucotti, M. Tommasini, L. Giuliani, S. Trusso, P.M. Ossi Pulsed laser deposition of gold thin films with long-range spatial uniform activity *Applied Physics A* 125, 311 (2019).
- [26] Triolo C., Savasta S., Settineri A., Trusso S., Saija R., Agarwal N. R., Patanè S., Near-field imaging of surface-plasmon vortex-modes around a single elliptical nanohole in a gold film *Scientific Reports* .
- [27] L. M. De Plano, E. Fazio, M. G. Rizzo, D. Franco, S. Carnazza, S. Trusso, F. Neri, S.P.P. Guglielmino Phage-based assay for rapid detection of bacterial pathogens in blood by Raman spectroscopy *Journal of Immunological Methods* 465, 45-52 (2019)
- [28] N.R. Agarwal, P.M. Ossi, S. Trusso Driving electromagnetic field enhancements in tailored gold surface nanostructures: Optical properties and macroscale simulations *Applied Surface Science* 466, 19-27 (2019).
- [29] C. Zanchi, A. Lucotti, D. Cancogni, F. Fontana, S. Trusso, P. M. Ossi, M. Tommasini Functionalization of nanostructured gold substrates with chiral chromophores for SERS applications: The case of 5-Aza[5]helicene *Chirality*, 30, 875-882 (2018)
- [30] W Kockelmann, T Minniti, DE Pooley, G Burca, R Ramadhan, FA Akeroyd, S Trusso, Time-of-Flight Neutron Imaging on IMAT@ ISIS: A New User Facility for Materials Science *Journal of Imaging* 4 (3), 47 (2018).
- [31] V.Mollica Nardo, A. Sinopoli, L. Kabalan, R.C. Ponterio, F. Saija, S. Trusso SERS and DFT study of indigo adsorbed on silver nanostructured surface *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 205, 465-469 (2018).
- [32] Agarwal N.R., Tommasini M., Ciusani E., Lucotti A., Trusso S., Ossi P.M. Protein-metal interaction probed by SERS: lysozyme on nanostructured gold surface (2018) *Plasmonics*, 13, 2117-2124.
- [33] Casiello M., Picca R.A., Fusco C., D'Accolti L., Leonardi AA. Lo Faro M.J., Irrera A., Trusso S., Cotugno P., Sportelli MC., Cioffi N., Nacci A., (2018) Catalytic Activity of Silicon Nanowires Decorated with Gold and Copper Nanoparticles Deposited by Pulsed Laser Ablation *Nanomaterials*, 8, 78.
- [34] Irrera A., Lo Faro M.J., D'Andrea A., Leonardi A.A., Artoni A., Fazio B., Picca R.A., Cioffi N., Trusso S., Franzò G., Musumeci P., Priolo F., Iacona F., Light-emitting silicon nanowires obtained by metal-assisted chemical etching, 2017, *Semicon. Sci. & Technol.*, 132, 043004.
- [35] Zanchi C., Lucotti A., Tommasini M., Trusso S., de Grazia U., Ciusani E., Ossi P.M., Laser tailored nanoparticle arrays to detect molecules at dilute concentration, 2017, *Appl. Surf. Sci.*, 396 1866-1874.
- [36] Franco D., Trusso S., E. Fazio, Allegra A., Musolino C., Speciale A., Cimino F., Saija A., Neri F., Nicolò M.S., Guglielmino S.P.P., Raman spectroscopy differentiates between sensitive and resistant multiple myeloma cell lines (2017) *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 187, 15.
- [37] Picca R.A., Calvano C.D., Lo Faro M.J., Fazio B., Trusso S., Ossi P.M., Neri F., D'Andrea C., Irrera A., Cioffi N. Functionalization of silicon nanowire arrays by silver nanoparticles for the laser desorption ionization mass spectrometry analysis of vegetable oils, 2016, *J. Mass Spectrometry* 51, 849-856.
- [38] D'Andrea C., Lo Faro M.J., Bertino G., Ossi P.M., Neri F., Trusso S., Musumeci P., Galli M., Cioffi N., Irrera A., Priolo F., Fazio B. (2016) *Nanotechnology* 27, 375604-12.
- [39] Agarwal N.R., Lucotti A., Tommasini M., Trusso S., Neri F., Ossi P.M. SERS detection and DFT calculation of 2-naphthalene thiol adsorbed on Ag and Au probes, 2016, *Sensors & Actuators B. Chemical* 237, 545–555.
- [40] Lentini G., Franco D., Fazio E., De Plano L.M., Trusso S., Carnazza S., Neri F., Guglielmino S.P.P. Rapid detection of *Pseudomonas aeruginosa* by phage-capture system coupled with micro-Raman spectroscopy, 2016 *Vibr. Spectrosc.* 86, 1-7.
- [41] S. Trusso, C. Zanchi, A. Bombelli, A. Lucotti, M. Tommasini, U. de Grazia, E. Ciusani, L. M. Romito, P. M. Ossi (2016) *JINST*, 11, C05006.
- [42] T. Minniti, W. Kockelmann, G. Burca, J.F. Kelleher, S. Kabra, S.Y. Zhang, D.E. Pooley, E.M. Schooneveld, Q. Mutamba, J. Sykora, N.J. Rhodes, F.M. Pouzols, J.B. Nightingale, F. Aliotta, L.M. Bonaccorsi, R. Ponterio, G. Salvato, S. Trusso, C. Vasi, A.S. Tremsin, G. Gorini, Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS, 2016 *JINST*, 11, C03014.

- [43] Fazio E., Trusso S., Franco D., Nicolo' M.S., Allegra A., Neri F., Neri F., Musolino C., Guglielmino S.P.P., A micro-Raman spectroscopic investigation of leukemic U-937 cells in aged cultures, 2016, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 159, 21-29.
- [44] Mikac L., Ivanda M., Gotic M., Maksimovic A., Trusso S., D'Andrea C., Foti A., Irrera A., Fazio B., Gucciardi P.G. Metal nanoparticles deposited on porous silicon templates as novel substrates for SERS, 2015, *Croatica Chemica Acta* 88, 437.
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- [46] Triolo C., Fazio E., Neri F., Mezzasalma A.M., Trusso S., Patanè S., Correlation between structural and electrical properties of PLD prepared ZnO thin films used as a photodetector material, 2015, *Applied Surface Science* 359, pp. 266-271 .
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## Invited Talks

- [1] S. Trusso, Laser tailored nanostructured gold and silver arrays for SERS applications, Workshop on Raman/SERS Applications in Biology and Medicine, 29 Settembre 2016, Milano (Italy).
- [2] S. Trusso, SERS activity of pulsed laser deposited gold and silver nanoparticles arrays, Division of Chemical Biology, Chalmers University, 26 November 2015, Gotheborg, (SE).
- [3] S. Trusso, Diagnostic Technique of Plasmas, III Workshop on Methods of Characterization of Materials, 27 Maggio 2013, Milano, ITALY.
- [4] S. Trusso, Near Field Raman Spectroscopy : an Experimental Set-up. XVII Convegno Nazionale Spettroscopia Raman ed Effetti non Lineari, 14-16 Maggio, 2001, Reggio Calabria, ITALY.

## Communications

- [1] Sebastiano Trusso, Laura M. De Plano, Enza Fazio, Maria G. Rizzo, Domenico Franco, Santina Carnazza, Fortunato Neri, Salvatore P. P. Guglielmino, Phage-based capture and concentrating system for single step detection of pathogens in liquid samples. 1st NanoBio Conference Heraklion, 24-28, September 2019
- [2] S. Gullace, F. Nastasi, F. Puntoriero, S. Trusso, G. Calogero, Characterization of novel platinum-free nanostructured gold counter electrode for DSSCs prepared by pulsed laser ablation, Conferenza: AIV-XXIV Conference (Giardini Naxos, Italy, May 7-10, 2019)
- [3] P.M. Ossi, M. Tommasini, C. Zanchi, A. Lucotti, E. Fazio, M. Santoro, S. Spadaro, F. Neri, S. Trusso, M. Casazza, E. Ciusani, U. de Grazia, Laser synthesized nanoparticles with tuned optical properties for therapeutic drug monitoring, 1st NanoBio Conference Heraklion, 24-28, September 2019.
- [4] Sara Gullace, Francesco Nastasi, Fausto Puntoriero, Sebastiano Trusso, Giuseppe Calogero, Novel nanostructured gold counter electrodes for DSSCs prepared by pulsed laser ablation, Materials 2018, National Conference on Materials Science and Technology. October 22nd to 26th 2018, Bologna.
- [5] Enza Fazio, Salvatore Spadaro, Marco Santoro, Sebastiano Trusso, Andrea Lucotti, Matteo Tommasini, Fortunato Neri, Paolo Maria Ossi, Synthesis by picosecond laser ablation of ligand-free Ag and Au nanoparticles for SERS applications, Plasma Physics by Laser Applications, (PPLA 2017) 5-7 July, Messina Italy.
- [6] Chiara Zanchi, Andrea Lucotti, Damiano Cancogni, Francesca Fontana, Sebastiano Trusso, Paolo M. Ossi, Matteo Tommasini, Functionalization of nanostructured gold substrates with chiral chromophores for SERS applications: The case of 5-Aza[5]helicene, 6th International Conference on Chiroptical Spectroscopy, Rennes, France 2017
- [7] C. Triolo, A. Settineri, S. Savasta, S. Trusso, R. Saija, S. Patanè, N. R. Agarwal Plasmon vortices around isolated nanoholes cratered on a gold film: polarization dependent coupling of SPPs and excitation beam, Plasmonica 2017, Lecce, Luglio 2017.
- [8] C. Triolo, A. Settineri, S. Savasta, S. Trusso, R. Saija, S. Patanè, N. R. Agarwal Plasmon vortices around isolated nanoholes cratered on a gold film: polarization dependent coupling of SPPs and excitation beam, Plasmonica 2017, Lecce, Luglio 2017.
- [9] S. Trusso, P.M. Ossi, N.R. Agarwal, Electromagnetic fields at nanostructured metal surfaces prepared by pulsed laser deposition. Simulations and experiments, COLA 3-8 September 2017, Marseille (FR).
- [10] P.M. Ossi, M. Santoro, E. Fazio., S. Trusso., P. Calandra., M. Tommasini., C. Zanchi., R. Saija., F. Neri, Nanostructure and optical properties of noble metal particles prepared by nanosecond and picosecond ablation in liquid, International Conference on Photoexcited Process and Applications, ICPEPA-10, 29 August-2 September 2016, Brasov, (Romania).
- [11] M. Santoro, E. Fazio, S. Trusso, P.M. Ossi., M. Tommasini, F. Neri, Rhodium nanoparticles synthesized by nanosecond and picosecond laser ablation in liquid, GISR 2016, Italian Meeting on Raman Spectroscopies and Non Linear Optical Effects, GISR 2016, 14-16 September 2016, Padova (Italy).
- [12] C. Zanchi, A. Bombelli., A. Lucotti, M. Tommasini, S. Trusso, U. de Grazia, E., Ciusani., L.M. Romito, P.M. Ossi, SERS spectroscopy towards quantitative molecular sensing of drugs, GISR 2016, Italian Meeting on Raman Spectroscopies and Non Linear Optical Effects, GISR 2016, 14-16 September 2016, Padova (Italy).
- [13] M. J. Lo Faro, C. D'Andrea, P. Musumeci, B. Fazio, G. Franzo, E. Messina, P.G. Gucciardi, G. Bertino, S. Trusso, P.M. Ossi, F. Neri, F. Iacona, F. Priolo, C.S. Vasi, A. Irrera, Silicon Nanowires: Synthesis, Structural Properties and Photonic Applications, MRS Fall Meetings, November 29-December 4 2015, Boston (USA).
- [14] R. A. Picca, M.J. Lo Faro, C. D. Calvano, B. Fazio, M.C. Sportelli, S. Trusso, P.M. Ossi, F. Neri, C. D'Andrea, A. Irrera, N. Cioffi, Highly Dense Arrays of Silicon and Metal-Silicon Nanowires as Novel Platforms for Laser Desorption Ionization Mass Spectrometry Applications, MRS Fall Meetings, November 29-December 4 2015, Boston (USA).

- [15] M. Tommasini, C. Zanchi, A. Lucotti, U. De Grazia, E. Ciusani, L. Romito, S. Trusso, P.M. Ossi, Artificially roughened gold nanoparticle arrays with tailored SERS properties for the detection of drugs in biological fluids, 2<sup>nd</sup> International Conference on Enhanced Spectroscopies, 12-15 October, Messina, Italy.
- [16] C. D'Andrea, M. J. Lo Faro, A. Irrera, P.M. Ossi, F. Neri, F. Priolo, B. Fazio, S. Trusso, Decoration of silicon nanowires with laser ablated silver nanoparticles for surface-enhanced Raman spectroscopy, COLA 2015, Cairns, (AUS).
- [17] M.J. Lo Faro, C. D'Andrea, B. Fazio, P. Musumeci, G. Franzó, E. Messina, P. Gucciardi, G. Bertino, S. Trusso, P.M. Ossi, F. Neri, F. Iacona, F. Priolo, A. Irrera, Silicon Nanowires: Synthesis, optical properties and photonic applications, EMRS 2015, Lille (FR).
- [18] G. Lentini, F. Calabrese, S. Carnazza, L. M. De Plano, D. Franco, E. Fazio, S. Trusso, F. Neri S.P.P. Guglielmino, Phage-based biosensor for rapid detection of bacterial pathogens in blood, EMRS 2015, Lille, (FR).
- [19] S. Trusso, C. Zanchi, A. Lucotti, M. Tommasini, U. De Grazia, L. Romito, Pulsed laser ablation to synthesize nanoparticle arrays: tailored 2D nanostructures for advanced biomedical sensing, Plasma Physics by Laser and Applications, PPLA 2015, Frascati (Rome, ITALY) 5-7 October 2015. , P.M. Ossi
- [20] R.C. Ponterio, S. Trusso, M. Tommasini, E. Fazio, C. Zanchi, P.M. Ossi SERS-active low-cost flexible substrates for direct sampling of organic dyes TECHNART2015 Conference, 27–30 aprile 2015, Catania (Italy)
- [21] D. Franco, E. Fazio, A. Allegra, M.S. Nicolò, F. Neri, S. Trusso, C. Musolino, S.P.P. Guglielmino The usage of Raman spectroscopy in the identification of cellular systems Workshop on Biomaterials and Their Interactions with Biological and Model Membranes Salou, Spagna (2014).
- [22] L. De Plano, F. Calabrese, G. Lentini, M. Nicolò, D. Franco, E Fazio, S. Trusso, A. Allegra, F. Neri, S. Guglielmino Phage display as a tool for rapid in vitro cell characterization by fluorescence imaging and Raman spectroscopy 16th European Congress on Biotechnology, 13-16 July 2014 Edinburgh, United Kingdom
- [23] M. Santoro, E. Fazio, S. Trusso, P. M. Ossi, F. Neri SERS activity of silver nanostructured thin films deposited by pulsed laser ablation, 12th IUVSTA School on Lasers in Materials Science Laser Engineering of Surfaces and Coatings Isola di San Servolo, Venice, Italy, 13th-20th July 2014.
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